

Web Application Firewall

API Reference

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1 Before You Start

1.1 Overview

Web Application Firewall (WAF) keeps web services stable and secure. It examines all HTTP and HTTPS requests to detect and block the following attacks: Structured Query Language (SQL) injection, cross-site scripting (XSS), web shells, command and code injections, file inclusion, sensitive file access, third-party vulnerability exploits, Challenge Collapsar (CC) attacks, malicious crawlers, and cross-site request forgery (CSRF).

This document describes how to use application programming interfaces (APIs) to perform operations on WAF, such as querying and updating.

Before calling WAF APIs, get yourself familiar with the WAF service.

1.2 API Calling

WAF provides Representational State Transfer (REST) APIs, allowing you to use HTTPS requests to call them. For details, see [API Calling](#).

1.3 Endpoints

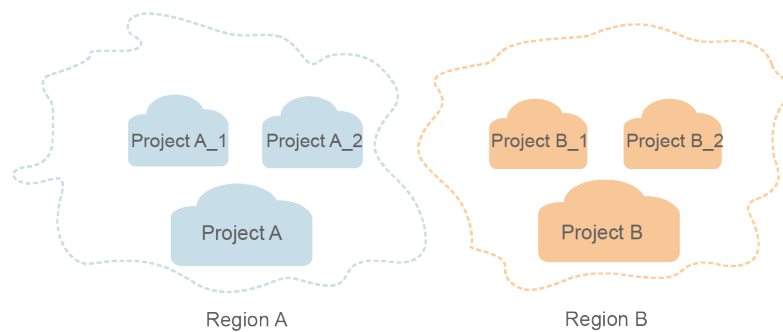
An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. Obtain the regions and endpoints from the enterprise administrator.

1.4 Concepts

- Account
An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- User
An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).
- Region
Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified as universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides services of the same type only or for specific tenants.
- Availability Zone (AZ)
An AZ comprises one or multiple physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- Project
Projects group and isolate compute, storage, and network resources across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and create resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

Figure 1-1 Project isolation model



2 API Calling

2.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for [obtaining a user token](#) as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of other APIs.

Request URI

A request URI is in the following format:

{URI-scheme} :// {Endpoint} / {resource-path} ? {query-string}

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

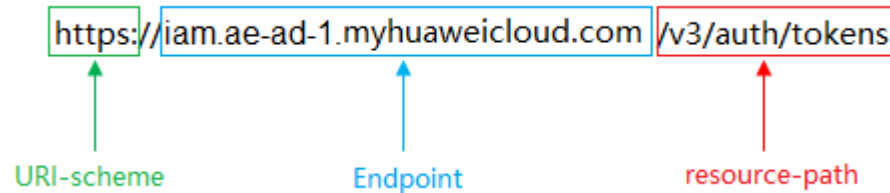
- **URI-scheme:**
Protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint:**
Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from [Regions and Endpoints](#).
For example, the endpoint of IAM in the **ae-ad-1** region is **iam.ae-ad-1.myhuaweicloud.com**.
- **resource-path:**
Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.
- **query-string:**
Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "Parameter name=Parameter value". For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the **ae-ad-1** region, obtain the endpoint of IAM (**iam.ae-ad-1.myhuaweicloud.com**) for this region and the **resource-path**

(/v3/auth/tokens) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
```

Figure 2-1 Example URI



NOTE

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server:

- **GET**: requests the server to return specified resources.
- **PUT**: requests the server to update specified resources.
- **POST**: requests the server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, for example, an object.
- **HEAD**: same as GET except that the server must return only the response header.
- **PATCH**: requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to **obtain a user token**, the request method is POST. The request is as follows:

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication.

 **NOTE**

In addition to supporting token-based authentication, APIs also support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.

For more information, see [AK/SK-based Authentication](#).

The API used to [obtain a user token](#) does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

The body of a request is often sent in a structured format as specified in the **Content-Type** header field. The request body transfers content except the request header.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Set **username** to the name of a user, **domainname** to the name of the account that the user belongs to, ********* to the user's login password, and **xxxxxxxxxxxxxxxxxxxx** to the project name. You can learn more information about projects from [Regions and Endpoints](#).

 **NOTE**

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see [Obtaining a User Token](#).

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxxxxxxxxxxxxxxx"
      }
    }
  }
}
```

```
}  
}  
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding. In the response to the API used to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

2.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. This method is recommended because it provides higher security than token-based authentication.

Token-based Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

The token can be obtained by calling the required API. For more information, see [Obtaining a User Token](#). A project-level token is required for calling this API, that is, **auth.scope** must be set to **project** in the request body. Example:

```
{  
  "auth": {  
    "identity": {  
      "methods": [  
        "password"  
      ],  
      "password": {  
        "user": {  
          "name": "username",  
          "password": "*****",  
          "domain": {  
            "name": "domainname"  
          }  
        }  
      }  
    }  
  },  
  "scope": {  
    "project": {  
      "name": "xxxxxxxx"  
    }  
  }  
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [API Signature Guide](#).

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

2.3 Response

Status Code

After sending a request, you will receive a response, including a status code, response header, and response body.

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For more information, see [Status Code](#).

For example, if status code **201** is returned for calling the API used to , the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

The following shows the response header for the API to , in which **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 2-2 Header fields of the response to the request for obtaining a user token

```

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

strict-transport-security → max-age=31536000; includeSubdomains;

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5

x-subject-token
→ MIIYXQYJKoZIhvcNAQcCoIIVTJCCGEOCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOensiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMD
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkajACgklqO1wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaYONYeJcAgzVefYtLWT1GSO0zxKZmlQHq82HBqHdgIZO9fuEbl5dMhdavj+33wEl
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtnfsc+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

```

(Optional) Response Body

The body of a response is often returned in structured format as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following shows part of the response body for the API to . For the sake of space, only part of the content is displayed here.

```

{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "xxxxxxx",
            .....

```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```

{
  "error_msg": "The format of message is error",
  "error_code": "AS.0001"
}

```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

3 APIs

3.1 Managing Websites Protected by Dedicated WAF Engines

3.1.1 Querying Domain Names Protected by Dedicated WAF Engines

Function

This API is used to query the list of domain names connected to dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host

Table 3-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-2 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	String	Page number of the data to be returned during pagination query. Value range: 0 to 100,000 . The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	String	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name
policyname	No	String	Policy name
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Request Parameters

Table 3-3 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-4 Response body parameters

Parameter	Type	Description
total	Integer	Total number of protected domain names
items	Array of SimplePremiumWafHost objects	Array of details about all protected domain names

Table 3-5 SimplePremiumWafHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
hostid	String	Domain name ID, which is the same as the value of id and is a redundant field.

Table 3-6 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
cname	String	The CNAME record being used. <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. Enumeration values: <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> ● true ● false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> ● true ● false

Status code: 400

Table 3-7 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-8 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-9 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{  
  "total": 1,  
  "items": [{  
    "id": "ee896796e1a84f3f85865ae0853d8974",  
    "hostname": "www.demo.com",  
    "extend": { },  
    "region": "cn-north-4",  
    "flag": {  
      "pci_3ds": "false",  
      "pci_dss": "false"  
    },  
    "description": "",  
    "policyid": "df15d0eb84194950a8fdc615b6c012dc",  
    "protect_status": 1,  
    "access_status": 0,  
    "hostid": "ee896796e1a84f3f85865ae0853d8974"  
  }]  
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.1.2 Adding a Domain Name to a Dedicated WAF Instance

Function

This API is used to connect a domain name to a dedicated WAF instance.

URI

POST /v1/{project_id}/premium-waf/host

Table 3-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-11 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-12 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-13 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
certificatenam e	No	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
hostname	Yes	String	Protected domain name or IP address (port allowed)
proxy	Yes	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
policyid	No	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
server	Yes	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
block_page	No	BlockPage object	Alarm page configuration. This parameter is optional. When a user-defined page needs to be configured, all subfields of this parameter are mandatory.
description	No	String	Remarks of the protected domain name

Table 3-14 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	No	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	Yes	String	IP address of your origin server requested by the client
port	Yes	Integer	Port used by WAF to forward client requests to the origin server
type	Yes	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Mandatory	Type	Description
vpc_id	Yes	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC \Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-15 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-16 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Response Parameters

Status code: 200

Table 3-17 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Protected domain names
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website. Enumeration values: <ul style="list-style-type: none"> • HTTPS • HTTP • HTTP&HTTPS
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether to use a proxy <ul style="list-style-type: none"> • true: A proxy is used. • false: No proxy is used.
locked	Integer	Domain name status. The value can be 0 or 1.0 : The domain name is not frozen. 1 : The domain name is frozen. This parameter is redundant in this version.
timestamp	Long	Time the domain name was added to WAF. The value is a 13-digit timestamp in ms.
tls	String	TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is available only when the client protocol is HTTPS. Enumeration values: <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3

Parameter	Type	Description
cipher	String	<p>Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default.</p> <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.

Parameter	Type	Description
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
block_page	BlockPage object	Alarm page configuration

Table 3-18 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS

Parameter	Type	Description
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-19 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
cname	String	The CNAME record being used. <ul style="list-style-type: none"> • old: The old CNAME record is used. • new: The new CNAME record is used. Enumeration values: <ul style="list-style-type: none"> • old • new
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-20 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-21 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Status code: 400

Table 3-22 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-23 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-24 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0
{
```

```
"hostname": "www.demo.com",
"server": [ {
  "front_protocol": "HTTP",
  "back_protocol": "HTTP",
  "vpc_id": "cf6dbace-b36a-4d51-ae04-52a3319ae247",
  "type": "ipv4",
  "address": "x.x.x.x",
  "port": 80
} ],
"proxy": false,
"description": ""
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "51a5649e52d341a9bb802044950969dc",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "x.x.x.x",
    "port": 80,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a3319ae247"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650596007113,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "1607df035bc847b582ce9c838c083b88",
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",
  "enterprise_project_id": "0",
  "protect_status": 1,
  "access_status": 0,
  "web_tag": ""
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.1.3 Modifying a Domain Name Protected by a Dedicated WAF Instance

Function

This API is used to update configurations of domain names protected with a dedicated WAF instance. The new origin server information will overwrite the old origin server information. If you want to keep the old information, provide them as new data. You can provide only the updated information in the request body.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}

Table 3-25 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-26 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-27 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-28 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> • false: No proxy is used. • true: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> • This parameter is not required when the client protocol is HTTP. • This parameter is mandatory when the client protocol is HTTPS.
certificatenam e	No	String	Certificate name. <ul style="list-style-type: none"> • This parameter is not required when the client protocol is HTTP. • This parameter is mandatory when the client protocol is HTTPS.

Parameter	Mandatory	Type	Description
tls	No	String	TLS version. TLS v1.0 is supported by default. Enumeration values: <ul style="list-style-type: none">• TLS v1.0• TLS v1.1• TLS v1.2• TLS v1.3

Parameter	Mandatory	Type	Description
cipher	No	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default:</p> <ul style="list-style-type: none"> cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH cipher_2: ECDH+AESGCM:EDH+AESGCM cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH cipher_default: The cryptographic algorithms are ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> cipher_1 cipher_2 cipher_3 cipher_4 cipher_default
mode	No	String	<p>Special domain name node in dedicated mode. This parameter is required only for special WAF modes, such as ELB.</p>

Parameter	Mandatory	Type	Description
locked	No	Integer	This parameter is reserved, which will be used to freeze a domain name.
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	No	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
timestamp	No	Integer	Timestamp.
pool_ids	No	Array of strings	Dedicated engine group the domain name was added to. This parameter is required only in special WAF mode, such as ELB mode.
block_page	No	BlockPage object	Alarm page configuration
traffic_mark	No	TrafficMark object	Traffic identifier
circuit_breaker	No	CircuitBreaker object	Circuit breaker configuration
timeout_config	No	TimeoutConfig object	Timeout settings

Table 3-29 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-30 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-31 TrafficMark

Parameter	Mandatory	Type	Description
sip	No	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	No	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	No	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-32 CircuitBreaker

Parameter	Mandatory	Type	Description
switch	No	Boolean	Whether to enable connection protection. <ul style="list-style-type: none"> • true: Enable connection protection. • false: Disable the connection protection.
dead_num	No	Integer	502/504 error threshold. 502/504 errors allowed for every 30 seconds.
dead_ratio	No	Number	A breakdown protection is triggered when the 502/504 error threshold and percentage threshold have been reached.
block_time	No	Integer	Protection period upon the first breakdown. During this period, WAF stops forwarding client requests.
superposition_num	No	Integer	The maximum multiplier you can use for consecutive breakdowns. The number of breakdowns are counted from 0 every time the accumulated breakdown protection duration reaches 3,600s. For example, assume that Initial Downtime (s) is set to 180s and Multiplier for Consecutive Breakdowns is set to 3. If the breakdown is triggered for the second time, that is, less than 3, the protection duration is 360s (180s X 2). If the breakdown is triggered for the third or fourth time, that is, equal to or greater than 3, the protection duration is 540s (180s X 3). When the accumulated downtime duration exceeds 1 hour (3,600s), the number of breakdowns are counted from 0.

Parameter	Mandatory	Type	Description
suspend_num	No	Integer	Threshold of the number of pending URL requests. Connection protection is triggered when the threshold has been reached.
sus_block_time	No	Integer	Downtime duration after the connection protection is triggered. During this period, WAF stops forwarding website requests.

Table 3-33 TimeoutConfig

Parameter	Mandatory	Type	Description
connect_timeout	No	Integer	Timeout for WAF to connect to the origin server.
send_timeout	No	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	No	Integer	Timeout for WAF to receive responses from the origin server.

Response Parameters

Status code: 200

Table 3-34 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name

Parameter	Type	Description
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. The value can be TLS v1.0 , TLS v1.1 , or TLS v1.2 . TLS v1.0 is used by default. Enumeration values: <ul style="list-style-type: none"> ● TLS v1.0 ● TLS v1.1 ● TLS v1.2 ● TLS v1.3
cipher	String	Cipher suite. The value can be cipher_1 , cipher_2 , cipher_3 , cipher_4 , or cipher_default : cipher_1 : ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH <ul style="list-style-type: none"> ● cipher_2: ECDH+AESGCM:EDH+AESGCM ● cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH ● cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH ● cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. Enumeration values: <ul style="list-style-type: none"> ● cipher_1 ● cipher_2 ● cipher_3 ● cipher_4 ● cipher_default

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.

Parameter	Type	Description
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
lb_algorithm	String	Load balancing algorithm. Weighted round robin is used by default and cannot be changed.
block_page	BlockPage object	Alarm page configuration
traffic_mark	TrafficMark object	Traffic identifier
timeout_config	TimeoutConfig object	Timeout settings

Table 3-35 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Type	Description
vpc_id	String	<p>VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID.</p> <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-36 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI 3DS certification check. false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI DSS certification check. false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> old: The old CNAME record is used. new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> old new

Parameter	Type	Description
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> ● true ● false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> ● true ● false

Table 3-37 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-38 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-39 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-40 TimeoutConfig

Parameter	Type	Description
connect_timeout	Integer	Timeout for WAF to connect to the origin server.
send_timeout	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	Integer	Timeout for WAF to receive responses from the origin server.

Status code: 400

Table 3-41 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-42 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-43 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
{  
  "proxy": false  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id": "27995fb98a2d4928a1e453e65ee8117a",  
  "hostname": "www.demo.com",  
  "protocol": "HTTP",  
  "server": [ {  
    "address": "192.168.0.209",  
    "port": 80,  
    "type": "ipv4",  
    "weight": 1,  
    "front_protocol": "HTTP",  
    "back_protocol": "HTTP",  
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a8459ae247"  
  } ],  
  "proxy": false,  
  "locked": 0,  
  "timestamp": 1650590814885,  
  "flag": {  
    "pci_3ds": "false",  
    "pci_dss": "false"  
  },  
  "description": "",  
  "policyid": "9555cda636ef4ca294dfe4b14bc94c47",  
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",  
  "projectid": "05e33ecd328025dd2f7fc00696201fb4",  
  "enterprise_project_id": "0",  
  "protect_status": 1,  
  "access_status": 0  
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.1.4 Querying Domain Name Settings in Dedicated Mode

Function

This API is used to query settings of domain names protected with dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host/{host_id}

Table 3-44 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-45 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-46 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-47 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWafServer objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.

Parameter	Type	Description
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is required only when the client protocol is HTTPS. Enumeration values: <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3
cipher	String	Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1 , cipher_2 , cipher_3 , cipher_4 , or cipher_default . <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. Enumeration values: <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.

Parameter	Type	Description
block_page	BlockPage object	Alarm page configuration
traffic_mark	TrafficMark object	Traffic identifier
timeout_conf ig	TimeoutConf ig object	Timeout settings

Table 3-48 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Type	Description
vpc_id	String	<p>VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID.</p> <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-49 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI 3DS certification check. false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI DSS certification check. false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> old: The old CNAME record is used. new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> old new

Parameter	Type	Description
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-50 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-51 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-52 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-53 TimeoutConfig

Parameter	Type	Description
connect_timeout	Integer	Timeout for WAF to connect to the origin server.
send_timeout	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	Integer	Timeout for WAF to receive responses from the origin server.

Status code: 400

Table 3-54 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-55 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-56 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "protocol": "HTTPS",
  "server": [ {
    "address": "1.2.3.4",
    "port": 443,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTPS",
    "back_protocol": "HTTPS",
    "vpc_id": "ebfc553a-386d-4746-b0c2-18ff3f0e903d"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650593801380,
  "tls": "TLS v1.0",
  "cipher": "cipher_1",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "domainid": "0ee78615ca08419f81f539d97c9ee353",
  "projectid": "550500b49078408682d0d4f7d923f3e1",
  "protect_status": 1,
  "access_status": 0,
  "certificateid": "360f992501a64de0a65c50a64d1ca7b3",
  "certificatename": "certificatename75315"
}
```


Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.1.5 Deleting a Domain Name from a Dedicated WAF Instance

Function

This API is used to delete a domain name protected with a dedicated WAF instance.

URI

DELETE /v1/{project_id}/premium-waf/host/{host_id}

Table 3-57 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-58 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
keepPolicy	No	Boolean	Whether to retain the rule. false : The policy for the domain name will not be retained. true : The policy for the domain name will be retained. If the policy used for the domain name you want to delete is also used for other domain names, this parameter must be left blank. Default: 1

Request Parameters

Table 3-59 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-60 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.

Parameter	Type	Description
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
host_id	String	Domain name ID, which is the same as the value of <i>*id</i> . This field is redundant.

Table 3-61 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Status code: 400

Table 3-62 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-63 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-64 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "region": "cn-north-4",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "protect_status": 1,
  "access_status": 0,
  "hostid": "ee896796e1a84f3f85865ae0853d8974"
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.1.6 Modifying the Protection Status of a Domain Name in Dedicated Mode

Function

This API is used to modify the protection status of a domain name connected to a dedicated WAF instance.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}/protect-status

Table 3-65 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-66 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-67 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-68 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Response Parameters

Status code: 200

Table 3-69 Response body parameters

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Status code: 400

Table 3-70 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-71 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-72 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}/protect-status?enterprise_project_id=0
{
```



```
"protect_status" : 1  
}
```

Example Responses

Status code: 200

OK

```
{  
  "protect_status" : 1  
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2 Policy Management

3.2.1 Querying the Protection Policy List

Function

This API is used to query the protection policy list.

URI

GET /v1/{project_id}/waf/policy

Table 3-73 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-74 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Policy name

Request Parameters

Table 3-75 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-76 Response body parameters

Parameter	Type	Description
total	Integer	Total number of policies
items	Array of PolicyResponse objects	Array of protection policy information

Table 3-77 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String, String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-78 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-79 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-80 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-81 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-82 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-83 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "41cba8aee2e94bcdbf57460874205494",
    "name": "policy_2FHwFOKz",
    "level": 2,
    "action": {
      "category": "log"
    },
    "options": {
      "webattack": true,
      "common": true,
      "crawler": true,
      "crawler_engine": false,
      "crawler_scanner": true,
      "crawler_script": false,

```



```
"crawler_other" : false,  
"webshell" : false,  
"cc" : true,  
"custom" : true,  
"whiteblackip" : true,  
"geop" : true,  
"ignore" : true,  
"privacy" : true,  
"antitamper" : true,  
"antileakage" : false,  
"bot_enable" : true,  
"modulex_enabled" : false  
},  
"hosts" : [ ],  
"extend" : { },  
"timestamp" : 1650527546218,  
"full_detection" : false,  
"bind_host" : [ ]  
}]  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2.2 Creating a Protection Policy

Function

This API is used to create a protection policy. The system configures some default configuration items when generating the policy. To modify the default configuration items, call the API for updating the protection policy.

URI

POST /v1/{project_id}/waf/policy

Table 3-85 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-86 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-87 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-88 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Array of details of policies

Response Parameters

Status code: 200

Table 3-89 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.

Parameter	Type	Description
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-90 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-91 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> ● block ● log

Table 3-92 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-93 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-94 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-95 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-96 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-97 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0
{
  "name" : "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "precise" : false,
    "whiteblackip" : true,
    "geoiip" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "anticrawler" : false,
    "antileakage" : false,
    "followed_action" : false,
  }
}
```



```
"bot_enable" : true,  
"modulex_enabled" : false  
},  
"hosts" : [],  
"extend" : { },  
"timestamp" : 1650529538732,  
"full_detection" : false,  
"bind_host" : [ ]  
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
403	The resource quota is insufficient.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2.3 Querying a Policy by ID

Function

This API is used to query a policy by ID.

URI

GET /v1/{project_id}/waf/policy/{policy_id}

Table 3-98 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-99 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-100 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-101 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies

Parameter	Type	Description
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.

Parameter	Type	Description
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-102 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-103 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-104 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-105 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-106 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-107 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-108 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "whiteblackip" : true,
    "geoip" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "antileakage" : false,
    "bot_enable" : true,
    "modulex_enabled" : false
  },
  "hosts" : [ ],
  "extend" : { },
  "timestamp" : 1650529538732,
  "full_detection" : false,
  "bind_host" : [ ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2.4 Updating a Protection Policy

Function

This API is used to update a policy. The request body can contain only the part to be updated.

URI

PATCH /v1/{project_id}/waf/policy/{policy_id}

Table 3-109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-110 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-111 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-112 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Array of details of policies
level	No	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Mandatory	Type	Description
full_detection	No	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	No	Action object	Protective actions for each rule in anti-crawler protection.
action	No	PolicyAction object	Protective action
options	No	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	No	Map<String,Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	No	Array of strings	Array of domain name IDs protected by the policy.
bind_host	No	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	No	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.

Table 3-113 Action

Parameter	Mandatory	Type	Description
category	No	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-114 PolicyAction

Parameter	Mandatory	Type	Description
category	No	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-115 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	No	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
crawler	No	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	No	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	No	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	No	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	No	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	No	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	No	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
custom	No	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	No	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	No	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	No	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	No	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	No	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
bot_enable	No	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	No	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-116 BindHost

Parameter	Mandatory	Type	Description
id	No	String	Domain name ID
hostname	No	String	Domain name
waf_type	No	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	No	String	This parameter is required only by the dedicated mode.

Response Parameters

Status code: 200

Table 3-117 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies

Parameter	Type	Description
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.

Parameter	Type	Description
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-118 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-119 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-120 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-121 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-122 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-123 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-124 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PATCH https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

```
{
  "options" : {
    "whiteblackip" : false
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "precise" : false,
    "whiteblackip" : false,
    "geoup" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "anticrawler" : false,
    "antileakage" : false,
    "followed_action" : false,
    "bot_enable" : true
  },
  "hosts" : [ "c0268b883a854adc8a2cd352193b0e13" ],
  "timestamp" : 1650529538732,
  "full_detection" : false,
  "bind_host" : [ {
    "id" : "c0268b883a854adc8a2cd352193b0e13",
    "hostname" : "www.demo.com",
    "waf_type" : "cloud"
  } ],
  "share_info" : {
    "is_receiver" : false,
    "provider_display" : {
      "share_count" : 0,
      "accept_count" : 0,
      "process_status" : 0
    }
  }
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2.5 Deleting a Protection Policy

Function

This API is used to delete a protection policy. If the policy is in use, unbind the domain name from the policy before deleting the policy.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}

Table 3-125 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-126 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-127 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-128 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String, String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-129 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-130 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-131 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-132 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-133 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-134 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-135 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "62169e2fc4e64148b775ec01b24a1947",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log",
    "modulex_category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
  }
}
```

```
"webshell" : false,  
"cc" : true,  
"custom" : true,  
"precise" : false,  
"whiteblackip" : true,  
"geoip" : true,  
"ignore" : true,  
"privacy" : true,  
"antitamper" : true,  
"anticrawler" : false,  
"antileakage" : false,  
"followed_action" : false,  
"bot_enable" : true,  
"modulex_enabled" : false  
},  
"hosts" : [ ],  
"extend" : { },  
"timestamp" : 1649316510603,  
"full_detection" : false,  
"bind_host" : [ ]  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.2.6 Updating the Domain Name Protection Policy

Function

This API is used to update protection policy applied to a domain name.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}

Table 3-136 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-137 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
hosts	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Request Parameters

Table 3-138 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-139 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.

Parameter	Type	Description
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-140 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-141 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> ● block ● log

Table 3-142 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-143 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-144 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-145 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-146 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?
enterprise_project_id=0&hosts=c0268b883a854adc8a2cd352193b0e13
```

Example Responses

Status code: 200

OK

```
{
  "id": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log",
    "modulex_category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
    "webshell": false,
    "cc": true,
    "custom": true,
    "precise": false,
    "whiteblackip": true,
    "geoip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true,
    "anticrawler": false,
    "antileakage": false,
    "followed_action": false,
    "bot_enable": true,
    "modulex_enabled": false
  },
  "hosts": [ "c0268b883a854adc8a2cd352193b0e13" ],
  "extend": { },
  "timestamp": 1650529538732,
  "full_detection": false,
  "bind_host": [ {
    "id": "c0268b883a854adc8a2cd352193b0e13",
    "hostname": "www.demo.com",
    "waf_type": "cloud"
  } ],
  "share_info": {
    "is_receiver": false,
    "provider_display": {
      "share_count": 0,
      "accept_count": 0,
      "process_status": 0
    }
  }
}
```

```
}
}
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3 Rule Management

3.3.1 Changing the Status of a Rule

Function

This API is used to change the status of a single rule, for example, disabling a Precise Protection rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status

Table 3-147 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Parameter	Mandatory	Type	Description
ruletype	Yes	String	Policy Type Enumeration values: <ul style="list-style-type: none"> • whiteblackip • geoip • privacy • antitamper • custom • ignore
rule_id	Yes	String	Rule ID. It can be obtained by calling the specific API that is used to obtain the rule list of a certain type. For example, you can call the ListWhiteblackipRule API to obtain the ID of a blacklist or whitelist rule.

Table 3-148 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-150 Request body parameters

Parameter	Mandatory	Type	Description
status	No	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Response Parameters

Status code: 200

Table 3-151 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time when the rule was created.
description	String	Rule Description
status	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Status code: 400

Table 3-152 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-153 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-154 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status?
enterprise_project_id=0
{
  "status" : 0
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "709bfd0d62a9410394ffa9e25eb82c36",
  "policyid" : "62fd7f8c36234a4ebedabc2ce451ed45",
  "timestamp" : 1650362797070,
  "description" : "demo",
  "status" : 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.2 Querying Global Protection Whitelist (Formerly False Alarm Masking) Rules

Function

Querying Global Protection Whitelist (Formerly False Alarm Masking) Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-155 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-156 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-157 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-158 Response body parameters

Parameter	Type	Description
total	Integer	The number of global protection whitelist (formerly false alarm masking) rules in the protection policy.
items	Array of IgnoreRuleBody objects	Domain names the global protection whitelist (formerly false alarm masking) rule is used for.

Table 3-159 IgnoreRuleBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.

Parameter	Type	Description
url	String	The path for false masking alarms. This parameter is available only when mode is set to 0 .
rule	String	Rules to be masked <ul style="list-style-type: none">• If you want to block a specific built-in rule, the value of this parameter is the rule ID. To query the rule ID, go to the WAF console, choose Policies and click the target policy name. On the displayed page, in the Basic Web Protection area, select the Protection Rules tab, and view the ID of the specific rule. You can also query the rule ID in the event details.• If you want to mask a type of basic web protection rules, set this parameter to the name of the type of basic web protection rules. xss: XSS attacks webshell: Web shells vuln: Other types of attacks sqli: SQL injection attack robot: Malicious crawlers rfi: Remote file inclusion lfi: Local file inclusion cmdi: Command injection attack• To bypass the basic web protection, set this parameter to all.• To bypass all WAF protection, set this parameter to bypass.
mode	Integer	Version number. The value 0 indicates the old version V1, and the value 1 indicates the new version V2. If the value of mode is 0, the conditions field does not exist, and the url and url_logic fields exist. When the value of mode is 1, the url and url_logic fields do not exist, and the conditions field exists.
url_logic	String	Matching logic. The value can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .
conditions	Array of Condition objects	Condition list
domain	Array of strings	Protecting Domain Names or Protecting Websites
advanced	Advanced object	Advanced settings

Table 3-160 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-161 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contentsts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-162 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-163 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-164 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-165 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?
enterprise_project_id=0&page=1&pagesize=10
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "40484384970948d79ffe4e4ae1fc54d",
    "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
    "timestamp": 1650512535222,
    "description": "demo",
    "status": 1,
    "rule": "091004",
    "mode": 1,
    "conditions": [ {
      "category": "ip",
      "contents": [ "x.x.x.x" ],
      "logic_operation": "equal"
    } ],
    "domain": [ "we.test.418lab.cn" ]
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
403	Insufficient resource quota.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.3 Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

Function

Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-166 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-167 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-168 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-169 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	Array of strings	Domain name or website to be protected. If the array length is 0 , the rule takes effect for all domain names or websites.

Parameter	Mandatory	Type	Description
conditions	Yes	Array of CreateCondition objects	Condition list
mode	Yes	Integer	The value is fixed at 1 , indicating v2 false alarm masking rules. v1 is used only for compatibility with earlier versions, and false alarm rules cannot be created in v1.
rule	Yes	String	<p>Items to be masked. You can provide multiple items and separate them with semicolons (;).</p> <ul style="list-style-type: none"> • If you want to block a specific built-in rule, the value of this parameter is the rule ID. To query the rule ID, go to the WAF console, choose Policies and click the target policy name. On the displayed page, in the Basic Web Protection area, select the Protection Rules tab, and view the ID of the specific rule. You can also query the rule ID in the event details. • If you want to mask a type of basic web protection rules, set this parameter to the name of the type of basic web protection rules. xss: XSS attacks webshell: Web shells vuln: Other types of attacks sqli: SQL injection attack robot: Malicious crawlers rfi: Remote file inclusion lfi: Local file inclusion cmdi: Command injection attack • To bypass the basic web protection, set this parameter to all. • To bypass all WAF protection, set this parameter to bypass.

Parameter	Mandatory	Type	Description
advanced	No	Advanced object	Advanced settings
description	No	String	Description of a masking rule

Table 3-170 CreateCondition

Parameter	Mandatory	Type	Description
category	Yes	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Yes	Array of strings	Content. The array length is limited to 1 . The content format varies depending on the field type. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be in the standard URL format. IF the field type is params , cookie , or header , the content format is not limited.
logic_operation	Yes	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .
check_all_indexes_logic	No	Integer	This parameter is reserved and can be ignored.

Parameter	Mandatory	Type	Description
index	No	String	If the field type is ip and the subfield is the client IP address, the index parameter is not required. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-171 Advanced

Parameter	Mandatory	Type	Description
index	No	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contentsts	No	Array of strings	Subfield of the specified field type. The default value is all .

Response Parameters

Status code: 200

Table 3-172 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description

Parameter	Type	Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
rule	String	ID of the built-in rule to be masked. You can query the rule ID by choosing Policies > Policy Name > Basic Web Protection > Protection Rules on the WAF console or on the event details page.
mode	Integer	The value is fixed at 1 , indicating v2 false alarm masking rules are used. v1 is used only for compatibility with earlier versions, and false alarm rules cannot be created in v1.
conditions	Array of Condition objects	Condition list
advanced	Advanced object	Advanced settings
domain	Array of strings	Protected domain name or website

Table 3-173 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , or not_suffix .
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.

Parameter	Type	Description
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-174 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params, cookie, header, body, and multipart. <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contensts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-175 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-176 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-177 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?enterprise_project_id=0
{
  "domain": [ "we.test.418lab.cn" ],
  "conditions": [ {
    "category": "url",
    "logic_operation": "contain",
    "contents": [ "x.x.x.x" ],
    "index": null
  } ],
  "mode": 1,
  "description": "demo",
  "rule": "091004"
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "a57f20ced01e4e0d8bea8e7c49eea254",
  "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp": 1650522310447,
  "description": "demo",
  "status": 1,
  "rule": "091004",
  "mode": 1,
  "conditions": [ {
    "category": "url",
    "contents": [ "x.x.x.x" ],
    "logic_operation": "contain"
  } ],
  "domain": [ "we.test.418lab.cn" ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.4 Deleting a Global Protection Whitelist (Formerly False Alarm Masking) Rule

Function

Deleting a Global Protection Whitelist (Formerly False Alarm Masking) Rule

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}

Table 3-178 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a false alarm masking rule. You can obtain the rule ID from the id field in the response body of the ListIgnoreRule API, which is used for querying false alarm masking rules.

Table 3-179 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-180 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-181 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
url	String	The path for false masking alarms. This parameter is available only when mode is set to 0 .

Parameter	Type	Description
rule	String	ID of the built-in rule to be masked. You can query the rule ID by choosing Policies > Policy Name > Basic Web Protection > Protection Rules on the WAF console or on the event details page.
mode	Integer	Version number. The value can be 0 or 1 . 0 : indicates the old version V1. 1 indicates the new version V2. When the value of mode is 0 , the conditions field does not exist, but the url and url_logic fields exist. When the value of mode is 1 , the url and url_logic fields do not exist, but the conditions field exists.
url_logic	String	URL match logic
conditions	Array of Condition objects	Filter
advanced	Advanced object	Advanced settings
domains	Array of strings	Protected domain name or website

Table 3-182 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .

Parameter	Type	Description
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-183 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contentsts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-184 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-185 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-186 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "40484384970948d79ffe4e4ae1fc54d",
  "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp": 1650512535222,
  "description": "demo",
  "status": 1,
  "rule": "091004",
  "mode": 1,
  "conditions": [ {
    "category": "ip",
    "contents": [ "x.x.x.x" ],
    "logic_operation": "equal"
  } ],
  "domain": [ "we.test.418lab.cn" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.5 Querying the Blacklist and Whitelist Rule List

Function

This API is used to query the list of blacklist and whitelist rules.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-187 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-188 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Name of the whitelist or blacklist rule

Request Parameters

Table 3-189 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-190 Response body parameters

Parameter	Type	Description
total	Integer	Number of the whitelist and blacklist rules
items	Array of WhiteBlackIpResponseBody objects	Details of blacklist or whitelist rules

Table 3-191 WhiteBlackIpResponseBody

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
timestamp	Long	Timestamp (ms) when the rule was created
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
addr	String	IP address/IP address group

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group

Table 3-192 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-193 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-194 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-195 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "3c96caf769ca4f57814fcf4259ea89a1",
    "policyid": "4dddfd44fc89453e9fd9cd6bfdc39db2",
    "name": "hkhtest",
    "timestamp": 1650362891844,
    "description": "demo",
    "status": 1,
    "addr": "x.x.x.x",
    "white": 0
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.6 Creating a Blacklist/Whitelist Rule

Function

This API is used to create a blacklist or whitelist rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-196 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-197 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-198 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-199 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rule name. The value can contain a maximum of 64 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed.
addr	No	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group_id	No	String	ID of the created IP address group. Use either this parameter or addr . To add an IP address group, go to the WAF console, choose Objects > Address Groups , and click Add Address Group .

Response Parameters

Status code: 200

Table 3-200 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: The rule is disabled. • 1: The rule is enabled.
description	String	Rule Description
timestamp	Long	Time a rule is created. The value is a 13-digit timestamp in millisecond.

Table 3-201 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-202 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-203 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-204 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name": "demo",
  "white": 0,
  "description": "demo",
  "addr": "x.x.x.x"
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "x.x.x.x",
  "white": 0,
  "size": 1
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.7 Updating a Blacklist or Whitelist Protection Rule

Function

This API is used to update blacklist and whitelist protection rules. You can update IP addresses, IP address ranges, protective actions, and other information.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-205 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the blacklist or whitelist rule. It can be obtained by calling the **ListWhiteblackipRule API.

Table 3-206 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-207 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-208 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the whitelist or blacklist rule
addr	No	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group_id	No	String	ID of the created IP address group. Use either this parameter or addr . To add an IP address group, go to the WAF console, choose Objects > Address Groups , and click Add Address Group .

Response Parameters

Status code: 200

Table 3-209 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
addr	String	IP address or IP address ranges included in the whitelist or blacklist rule.
description	String	Description of the blacklist or whitelist rule
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
ip_group	ip_group object	IP address group

Table 3-210 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-211 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-212 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-213 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name": "demo",
  "white": 0,
  "description": "demo",
  "addr": "1.1.1.2"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "1.1.1.2",
  "white": 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.8 Deleting a Blacklist or Whitelist Rule

Function

This API is used to delete a blacklist or whitelist rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-214 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a blacklist or whitelist rule. You can obtain the rule ID by calling the ListWhiteblackipRule API.

Table 3-215 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-216 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-217 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the whitelist or blacklist rule
timestamp	Long	Time a rule is deleted. The value must be a 13-digit timestamp in millisecond.
description	String	Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> 0: WAF blocks requests that hit the rule. 1: WAF allows requests that hit the rule. 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group

Table 3-218 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-219 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-220 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-221 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "1.1.1.2",
  "white": 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.9 Querying a Data Masking Rule

Function

This API is used to query a data masking rule.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-222 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-223 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-224 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-225 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules
items	Array of PrivacyResponseBody objects	Array of rule details

Table 3-226 PrivacyResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: The rule is disabled. • 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-227 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-228 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-229 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "97e4d35f375f4736a21cccfad77613eb",
    "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
    "timestamp": 1650533191385,
    "description": "demo",
    "status": 1,
    "url": "/demo",
    "category": "cookie",
    "index": "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.10 Creating a Data Masking Rule

Function

This API is used to create a data masking rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-230 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-231 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-232 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-233 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form

Parameter	Mandatory	Type	Description
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-234 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form

Parameter	Type	Description
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-235 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-236 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-237 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.11 Updating a Data Masking Rule

Function

This API is used to update a data masking rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-238 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-239 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-240 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-241 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-242 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID

Parameter	Type	Description
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-243 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-244 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-245 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "description" : "demo",
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.12 Deleting a Data Masking Rule

Function

This API is used to delete a data masking rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-246 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-247 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-248 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-249 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
description	String	(Optional) A description of the rule.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.

Status code: 400

Table 3-250 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-251 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-252 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.13 Querying the List of Geolocation Access Control Rules

Function

Querying the List of Geolocation Access Control Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/geoip

Table 3-253 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-254 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-255 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-256 Response body parameters

Parameter	Type	Description
total	Integer	Number of geolocation access control rules in the policy
items	Array of GeoIpItem objects	Array of geolocation access control rules

Table 3-257 GeOIpItem

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the geolocation access control rule
geoip	String	Locations that can be configured in the geolocation access control rule: (CN: China, CA: Canada, US: The United States, AU: Australia, IN: India, JP: Japan, UK: United Kingdom, FR: France, DE: Germany, BR: Brazil, Thailand: Thailand, Singapore: Singapore, South Africa: South Africa, Mexico: Mexico, Peru: Peru, Indonesia: Indonesia, GD Guangdong, FJ: Fujian, JL: Jilin, LN: Liaoning, TW: Taiwan (China), GZ: Guizhou, AH: Anhui, HL: Heilongjiang, HA: Henan, SC: Sichuan, HE: Hebei, YN: Yunnan, HB: Hubei, HI: Hainan, QH: Qinghai, HN: Hunan, JX: Jiangxi, SX: Shanxi, SN: Shaanxi, ZJ: Zhejiang, GS: Gansu, JS: Jiangsu, SD: Shandong, BJ: Beijing, SH: Shanghai, TJ: Tianjin, CQ: Chongqing, MO: Macao (China), HK: Hong Kong (China), NX: Ningxia, GX: Guangxi, XJ: Xinjiang, XZ: Tibet, NM: Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-258 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-259 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-260 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "items" : [ {
    "id" : "06f07f6c229141b9a4a78614751bb687",
    "policyid" : "2abeecefb9840e6bf05efbd80d0fcd7",
    "timestamp" : 1636340038062,
    "status" : 1,
    "geoip" : "GD",
    "white" : 1,
    "name" : "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.14 Creating a Geolocation Access Control Rule

Function

Creating a Geolocation Access Control Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/geoup

Table 3-261 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-262 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-263 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-264 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	No	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-265 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN: China, CA: Canada, US: The United States, AU: Australia, IN: India, JP: Japan, UK: United Kingdom, FR: France, DE: Germany, BR: Brazil, Thailand: Thailand, Singapore: Singapore, South Africa: South Africa, Mexico: Mexico, Peru: Peru, Indonesia: Indonesia, GD Guangdong, FJ: Fujian, JL: Jilin, LN: Liaoning, TW: Taiwan (China), GZ: Guizhou, AH: Anhui, HL: Heilongjiang, HA: Henan, SC: Sichuan, HE: Hebei, YN: Yunnan, HB: Hubei, HI: Hainan, QH: Qinghai, HN: Hunan, JX: Jiangxi, SX: Shanxi, SN: Shaanxi, ZJ: Zhejiang, GS: Gansu, JS: Jiangsu, SD: Shandong, BJ: Beijing, SH: Shanghai, TJ: Tianjin, CQ: Chongqing, MO: Macao (China), HK: Hong Kong (China), NX: Ningxia, GX: Guangxi, XJ: Xinjiang, XZ: Tibet, NM: Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-266 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-267 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-268 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip?enterprise_project_id=0
{
  "white" : 0,
  "description" : "demo",
  "name" : "demo",
  "geoip" : "SH|Afghanistan"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "SH|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "SH", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.15 Updating a Geolocation Access Control Rule

Function

Updating a Geolocation Access Control Rule

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-269 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API (value of the id field in the response body).
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-270 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-271 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-272 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule
description	No	String	Description

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Response Parameters

Status code: 200

Table 3-273 Response body parameters

Parameter	Type	Description
id	String	Rule ID

Parameter	Type	Description
name	String	Name of the geolocation access control rule
description	String	Description
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-274 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-275 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-276 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
{
  "white" : 0,
  "name" : "demo",
  "geoip" : "BJ|Afghanistan"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "description" : "demo",
  "geoip" : "BJ|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "BJ", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.16 Deleting a Geolocation Access Control Rule

Function

This API is used to delete a geolocation access control rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-277 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-278 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-279 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-280 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
description	String	Description
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-281 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-282 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-283 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "BJ|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "BJ", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.17 Querying the List of Web Tamper Protection Rules

Function

This API is used to query the list of web tamper protection rules.

URI

```
GET /v1/{project_id}/waf/policy/{policy_id}/antitamper
```

Table 3-284 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-285 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-286 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-287 Response body parameters

Parameter	Type	Description
total	Integer	Total number of web tamper protection rules
items	Array of AntiTamperRuleResponseBody objects	Number of web tamper protection rules.

Table 3-288 AntiTamperRuleResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule remarks
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule

Status code: 400

Table 3-289 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-290 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-291 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "b77c3182957b46ed8f808a1998245cc4",
    "policyid": "bdba8e224cbd4d11915f244c991d1720",
    "timestamp": 1647499571037,
    "description": "",
    "status": 0,
    "hostname": "www.demo.com",
    "url": "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.18 Creating a Web Tamper Protection Rule

Function

This API is used to create a web tamper protection rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/antitamper

Table 3-292 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-293 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-294 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-295 Request body parameters

Parameter	Mandatory	Type	Description
hostname	Yes	String	Protected websites. The list can be obtained by calling the ListHost API in cloud mode (the value of the hostname field in the response body).
url	Yes	String	URL protected by the web tamper protection rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The <i>asterisk (*)</i> indicates the path prefix.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-296 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
hostname	String	Domain name protected by the web tamper protection rule

Parameter	Type	Description
url	String	URL protected by the web tamper protection rule
description	String	Timestamp the rule was created.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: The rule is disabled. • 1: The rule is enabled.

Status code: 400

Table 3-297 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-298 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-299 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "url": "/test",
```

```
"description" : "demo"  
}
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "eed1c1e9c1b04b4bad4ba1186387a5d8",  
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",  
  "timestamp" : 1650594937397,  
  "description" : "demo",  
  "status" : 1,  
  "hostname" : "www.demo.com",  
  "url" : "/test"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.19 Deleting a Web Tamper Protection Rule

Function

This API is used to delete a web tamper protection rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}

Table 3-300 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the anti-tamper rule. It can be obtained by calling the ListAntitamperRule API.

Table 3-301 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-302 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-303 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL protected by the web tamper protection rule
timestamp	Long	Timestamp the rule was created.

Status code: 400

Table 3-304 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-305 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-306 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}?
enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total" : 1,
  "items" : [ {
    "id" : "b77c3182957b46ed8f808a1998245cc4",
    "policyid" : "bdba8e224cbd4d11915f244c991d1720",
    "policyname" : "demo",
    "timestamp" : 1647499571037,
    "description" : "",
    "status" : 0,
    "hostname" : "www.demo.com",
    "url" : "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.20 Querying the Reference Table List

Function

This API is used to query the reference table list.

URI

GET /v1/{project_id}/waf/valuelist

Table 3-307 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-308 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.
name	No	String	Reference table name

Request Parameters

Table 3-309 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-310 Response body parameters

Parameter	Type	Description
total	Integer	Number of reference tables Minimum: 0 Maximum: 500
items	Array of ValueListResponseBody objects	Reference table list Array Length: 0 - 10

Table 3-311 ValueListResponseBody

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • response_body
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table
producer	Integer	Reference table source. The value can be 1 or others. 1 : The table is created by you. Other values indicate that the table is automatically generated by moduleX.
description	String	Reference table description

Status code: 400

Table 3-312 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-313 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-314 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "3b03be27a40b45d3b21fe28a351e2021",
    "name": "ip_list848",
    "type": "ip",
    "values": [ "100.100.100.125" ],
    "timestamp": 1650421866870,
    "producer": 1,
    "description": "demo"
  } ]
}
```


Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.21 Creating a Reference Table

Function

This API is used to add a reference table. A reference table can be used by CC attack protection rules and precise protection rules.

URI

POST /v1/{project_id}/waf/valuelist

Table 3-315 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-316 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-317 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-318 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed. Minimum: 2 Maximum: 64
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • response_body
values	Yes	Array of strings	Value of the reference table

Parameter	Mandatory	Type	Description
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: 200

Table 3-319 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table
producer	Integer	Source of the reference table. <ul style="list-style-type: none">• 1: The reference table was created by you.• 2: The reference table was created by the intelligent access control protection.

Status code: 400

Table 3-320 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-321 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-322 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
{
  "name": "demo",
  "type": "url",
  "values": [ "/124" ],
  "description": "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "e5d9032d8da64d169269175c3e4c2849",
  "name": "demo",
  "type": "url",
  "values": [ "/124" ],
  "timestamp": 1650524684892,
  "description": "demo",
  "producer": 1
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.22 Modifying a Reference Table

Function

This API is used to modify a reference table.

URI

PUT /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-323 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-324 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-325 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-326 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name, which is a string of 2 to 32 characters. Minimum: 2 Maximum: 32
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • resopnse_body
values	No	Array of strings	Value of the reference table

Parameter	Mandatory	Type	Description
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: 200

Table 3-327 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type
description	String	Reference table description
values	Array of strings	Value of the reference table
producer	Integer	Source of the reference table. <ul style="list-style-type: none"> • 1: The reference table was created by you. • 2: The reference table was created by the intelligent access control protection.

Status code: 400

Table 3-328 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-329 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-330 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0
{
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "63b1d9edf2594743bc7c6ee98527306c",
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo",
  "producer" : 1
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.3.23 Deleting a Reference Table

Function

This API is used to delete a reference table.

URI

DELETE /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-331 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-332 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-333 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-334 Response body parameters

Parameter	Type	Description
id	String	ID of a reference table
name	String	Reference table name.
type	String	Reference table type
timestamp	Long	Time the reference table is deleted. The value is a 13-digit timestamp in millisecond.

Status code: 400

Table 3-335 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-336 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-337 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "63b1d9edf2594743bc7c6ee98527306c",  
  "name" : "RPmvp0m4",  
  "type" : "response_code",  
  "timestamp" : 1640938602391  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4 Certificate Management

3.4.1 Querying the List of Certificates

Function

This API is used to query the list of certificates.

URI

GET /v1/{project_id}/waf/certificate

Table 3-338 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-339 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Parameter	Mandatory	Type	Description
name	No	String	Certificate name
host	No	Boolean	Whether to obtain the domain name for which the certificate is used. The default value is false . <ul style="list-style-type: none"> • true: Obtain the certificates that have been used for domain names. • false: Obtain the certificates that have not been used for any domain name. Default: false
exp_status	No	Integer	Certificate status. The options are as follows: 0: not expired; 1: expired; 2: about to expire (The certificate will expire within one month.)

Request Parameters

Table 3-340 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-341 Response body parameters

Parameter	Type	Description
items	Array of CertificateBody objects	Certificates
total	Integer	Total number of certificates

Table 3-342 CertificateBody

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate name
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The value can be: 0 : The certificate is valid. 1 : The certificate has expired. 2 : The certificate will expire within one month.
timestamp	Long	Certificate upload timestamp.
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-343 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-344 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-345 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-346 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [{
    "id": "dc443ca4f29c4f7e8d4adaf485be317b",
    "name": "demo",
    "timestamp": 1643181401751,
    "expire_time": 1650794100000,
    "bind_host": [],
    "exp_status": 2
  }]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4.2 Uploading a Certificate

Function

This API is used to upload a certificate.

URI

POST /v1/{project_id}/waf/certificate

Table 3-347 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-348 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-349 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-350 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.
content	Yes	String	Certificate file. Only certificates and private key files in PEM format are supported, and the newline characters in the file must be replaced with \n.
key	Yes	String	Certificate private key. Only certificates and private key files in PEM format are supported, and the newline characters in the files must be replaced with \n.

Response Parameters

Status code: 200

Table 3-351 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name

Parameter	Type	Description
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-352 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-353 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-354 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-355 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
{
  "name": "demo",
  "content": "-----BEGIN CERTIFICATE----- \
\nMIIDyzCCARogAwIBAgIJAN5U0Z4Bh5ccMA0GCSqGSIb3DQEBCwUAMHwxCzAJBgNV
BAYTAipMRiweAYDVQQIDAIHVUFOR0RPTkcxETAPBgNVBACMCERPTkdHVUFOMQ0w
CwYDVQQKDARERUtuFMQswCQYDVQQLDAJESzELMAKGA1UEAwwCT0QxHTAbBgkqhkiG
9w0BCQEWDk8IZC5odWF3Z3ZkY29tMB4XDTEyMTExNTA4MTk0MVoXDTIyMTExNTA4
MTk0MVoVowfDELMAGGA1UEBhMCWkxgEjAQBgNVBAGMCUdVQU5HRE9ORzERMA8GA1UE
BwwIRE9OR0dVQU4xDALBgNVBAoMBERFS0UxXzAJBgNVBAsMAkRMLMwCQYDVQQDD
DAJPRDEdMBsGCSqGSIb3DQEJARYOTwhkLmh1YXdlas55jb20wggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDcoLfk62//r0RHFyweYBj97S4Nsj8Qj0RG+Y02
OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr /
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2OyBxT+ocTLRgEIB8ZbvJyPNseg
feLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+sWJMniA2yljSBQ0DEAOSusXo FQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kywwq+9pYi8L+mKeRL+lCMMbXC/3k6OfMB
tVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJZTPH6lYtAgMBAAGjUDBOMB0G
A1UdDgQWBQBQprUUFxw+gIkpzXdrYlsWjSahWjAMBgNVHRMERTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQA2
603KozsQoIkELvqDjlcAXwWRFNW8SvlaSJAulhHgneMt9bQgIL+3PJWA/iMniOhU o/
kVwkiUlcw4t7RwP0hVms0OZw59MuqKd3oCSWkYO4vEHs3t40JDWnGDnmQ4sol
RkOWJwL4w8tnPe3qY9JSupjslu6Y1hVktEfN2vEKFnsuMhidkUpUAJWodHhWBQH
wglDo4/6yTnWZNGK8JDal86Dm5IchXea1EoYBjsHxiJb7HeWQlkre+MCYi1RHOin 4mlXTr0oT4/jWlglkSz6/
ZhGRq+7W7tl7cvzCe+4XsVZlenAcYoNd/WLfo91PD4 yAsRrXoJw1so1Bj0BkdZ\ \
-----END CERTIFICATE-----",
  "key": "-----BEGIN PRIVATE KEY----- \
\nMIIEvwwIBADANBgkqhkiG9w0BAQEFAASCBKkwggSIAgEAAoIBAQDcoLfk62//r0RH FyweYBj97S4Nsj8Qj0RG
+Y02OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn 1PcN2Pj2vPJD6NEk4I6VdOWr/
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2Oy BxT
+ocTLRgEIB8ZbvJyPNsegfeLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+ sWJMniA2yljSBQ0DEAOSusXoFQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kywwq+9pYi 8L+mKeRL+lCMMbXC/
3k6OfMBtVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJ ZTPH6lYtAgMBAECCgEBAL+xZxm/QoqXT
+2stoqV2GEYaMFASpRqxlzCjMmEE/9 jZa+cBWIjHhVPSjRqYfBDcHeebu0JwlrjcljAvgnlvnO5XgXm1A9Q
+WbscokmcX1 xCvpHgc+MDVn+uWdCd4KW5kEk4EnSsFN5iNSf+1VxNURN+gwSSp/0E+muwA5IISO G6HQ
+p6qs52JAitX5t/7ruKoHYXjXbnf7TUs7768qrh++KPKpPlq044qoYlcGO1n 4urPBHuNly04GgGw
+vkaqjQvZrNLVOMMaFWBxsDWBehgSSBQTj+f3NCxneGYtt8 3SCTZQI5nlkb+r/
M455EwKTSXuEsNHolwx7L6GEPbQECgYEA8lxgK2fykloCoh
TFJaRAvvyjKa2+Aza4qT9SGY9Y30VPClPjBB1vUu5M9KrFufzlv06nGEcHmpEwOe
8vbRu7nLAQTGYFi8VK63q8w6FIldAyCG6Sx+BWcfWxJzXsZLAJTfklwi8HsOSlqh
6QNv0xbE2fLjXkF8MHvtrufip40CgYEA6sy87eDrkVgtq4ythAik3i1C5Z3v0fVx mTBlG5Z221OyocNq3Tf/
b1Zwolc1ik6cyBzY6z1blrbSzArCqm0sb2iD+kjL81O0 /qqdXjBxZUKiVAMNNp7xjGZHHFKWUxT2+UX/
```

```
tlyx4tT4dZrFlkdDXkcMmqfsRxd 1NEVaAaT8SECgYAoU7BPtPlun43YTpFUfr3pSIN6oZeKoxSbw9i4MNC
+4fSDRPC+ 80ImcmZRL7taF+Y7p0jxAOTuIkDJC8NbAiv5J9WzrwQ+5MF2BPB/2bYnRa6tNofH kZDy/
9bXysl6qw2p5Ety8wVcgZTMvFMGiG/32lpZ65FYWEU8L5qSRwfFhQKBgQC9 ihjZTj/bTHtRiHZppzCvyYm/lgd
+Uwtsy0uXR1n0G1SQENgrTBD/J6AzdfJae6tE P0U8YIM5Oqxf2i/as9ay+IPRecMl4eSxz7jJWAGx6Yx/3AZ
+hAB1ZbNbqniCLYNk d0MvjwmA25ATO+ro4OZ7AdEpQbk3l9aG/WFyYBz9AQKBgQCucFPA1l5esL8196V
WMr2Qo0tqzl7CGSoWQk2Sa2HZtZdfofXAaaqo+zvJ6RPHtJh0jgJtx536Dvv3egI
37YrdQyJbCPZXQ3SPgqWCorUnXBwq/nxS06uwu6JBxUFc57ijmMU4fWYNrvkkmWb 7keAg/
r5Uy1joMAvBN1l6lB8pg==\n -----END PRIVATE KEY-----"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "64af92e2087d49cbabc233e9bdc761b7",
  "name" : "testly",
  "timestamp" : 1658994431596,
  "expire_time" : 1682394560000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4.3 Querying a Certificate

Function

This API is used to query a certificate.

URI

GET /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-356 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-357 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-358 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-359 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-360 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-361 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-362 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-363 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "6e2be127b79f4a418414952ad5d8c59f",
  "name": "certificatename94319",
  "content": "-----BEGIN CERTIFICATE-----\nMIIB
+TCCAaOgAwIBAgIUJP9I8OupQ77w0bGL2yWOQXreM4kwDQYJKoZIhvcNAQELBQAwUTELMAkGA1UEBhMC
QVUxEzARBgNVBAGMCIHvWUUtU3RhdGUxZDZANBgNVBAoMBkx1YXdlTcEcMBoGA1UEAwwTd2FmLmh1YXdl
aWNsb3VkLmNvbTAeFw0yMDA3MDkwNTQ2MDRaFw0yMDA4MDgwNTQ2MDRaMFExCzAJBgNVBAYTAkFV
MRMwEQYDVQQLIDApTb21lLVN0YXRIMQ8wDQYDVQQKDAZlWF3ZWxkHDAaBgNVBAMME3dhZi5odWF3Z3Z
WljG91ZC5jb20wXDANBgkqhkiG9w0BAQEFAANLADBIACEA0UEBmZvbG9JTKrKcDUw9xjFqxM7BaQFM3SLs
Qlmd5hkzygyL1ra
+cWajPJITCz9Ph6qldna2+OrluTdvCcpjwIDAQABo1MwUTAdBgNVHQ4EFgQUE7ZQNcgl3lmryx1s5gy9mnC1rs
YwHwYDVR0jBBgwFoAUE7ZQNcgl3lmryx1s5gy9mnC1rsYwDwYDVR0TAQH/BAUwAwEB/
zANBgkqhkiG9w0BAQsFAANBAM5wGi88jYWLgOnGbae5hH3I9IMBKxGqv17Cbm1tjWuUogVINz86lqvCpuhzL
D/vzJAqPluDwqM8uvzjgRfZs8=\n-----END CERTIFICATE-----",
  "key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIBOQIBAAJBANFBGzM274DiUyqynA1MPcYxasTOwWkBTN0i7EJZg+YZM8oMi9a2vnFmozyZUwsc/
T4eqpXZ2tvjqyLk3bwnKY8CAwEAAQJBAI7LMPaH/HQk/b/bVmY0qsr
+me9nb9BqFLuqwzKbx0hSmWPOWfsd3rOFISopyHqgYtAsPfvPumEdGbdnCyU8zAECIQD71768K1ejb
+ei2lqZqHaczqdUNQxMh54yot9F2yVWjwIhANS1Y1Jv89WEU/ZvMS9a4638Msv2c4Gp08RtXNYn0BAiA0H4b
+cwoEbZjHf+HYg6Fo+uxu5TvSaw8287a6Qo0LyQlFVZSIYwPlT6oiX5rdLzBiap4N0gJWdsa2ihmV59LAQlgK8N
+j1daq63b0bj9k4HruhQtpgxI6U9nFBemH4zTRYM=\n-----END RSA PRIVATE KEY-----",
  "timestamp": 1650595334578,
  "expire_time": 1596865564000,
  "bind_host": [ {
    "id": "978b411657624c2db069cd5484195d1c",
    "hostname": "www.demo.com",
    "waf_type": "cloud"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4.4 Modifying a Certificate

Function

This API is used to modify a certificate.

URI

PUT /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-364 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-365 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-366 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-367 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.
content	No	String	Certificate file. Only certificates and private key files in PEM format are supported, and the newline characters in the file must be replaced with \n.
key	No	String	Certificate private key. Only certificates and private key files in PEM format are supported, and the newline characters in the files must be replaced with \n.

Response Parameters

Status code: 200

Table 3-368 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
expire_time	Long	Timestamp when the certificate expires
timestamp	Long	Timestamp.

Status code: 400

Table 3-369 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-370 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-371 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0
```

```
{  
  "name" : "demo"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id" : "360f992501a64de0a65c50a64d1ca7b3",  
  "name" : "demo",  
  "timestamp" : 1650593797892,  
  "expire_time" : 1596865564000  
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4.5 Deleting a Certificate

Function

This API is used to delete a certificate.

URI

DELETE /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-372 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-373 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-374 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-375 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate in PEM format
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-376 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-377 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-378 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-379 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "id" : "e1d87ba2d88d4ee4a3b0c829e935e5e0",
  "name" : "certificatename29556",
  "timestamp" : 1650594410630,
  "expire_time" : 1596865564000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.4.6 Applying a Certificate to a Domain Name

Function

This API is used to apply a certificate to a domain name.

URI

POST /v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts

Table 3-380 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-381 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-382 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-383 Request body parameters

Parameter	Mandatory	Type	Description
cloud_host_ids	No	Array of strings	ID of HTTPS domain name in cloud mode. You can obtain it by calling the ListHost API.
premium_host_ids	No	Array of strings	ID of the HTTPS domain name in dedicated mode. You can obtain it by calling the ListPremiumHost API.

Response Parameters

Status code: 200

Table 3-384 Response body parameters

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate name
timestamp	Long	Timestamp.
expire_time	Long	Expiration date
bind_host	Array of CertificateBundingHostBody objects	Domain name list

Table 3-385 CertificateBundingHostBody

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF mode (Cloud: cloud; Dedicated: premium) Enumeration values: <ul style="list-style-type: none"> • cloud • premium

Status code: 400

Table 3-386 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-387 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-388 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts?
enterprise_project_id=0

{
  "cloud_host_ids" : [ "85e554189d494c0f97789e93531c9f90" ],
  "premium_host_ids" : [ "4e9e97c425fc463c8f374b90124e8392" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "3ac1402300374a63a05be68c641e92c8",
  "name" : "www.abc.com",
  "timestamp" : 1636343349139,
  "expire_time" : 1650794100000,
  "bind_host" : [ {
    "id" : "e350cf556da34adab1f017523d1c05ed",
```

```
"hostname" : "www.demo.com",  
"waf_type" : "cloud",  
"bandwidth" : 0,  
"qps" : 0  
} ]  
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.5 Event Management

3.5.1 Querying the List of Attack Events

Function

This API is used to query the attack event list. Currently, this API does not support query of all protection events. The **pagesize** parameter cannot be set to **-1**. The larger the data volume, the larger the memory consumption. A maximum of 10,000 data records can be queried. For example, if the number of data records in a user-defined period exceeds 10,000, the data whose page is 101 (or **pagesize** is greater than 100) cannot be queried. You need to adjust the time range to a longer period and then query the data.

URI

GET /v1/{project_id}/waf/event

Table 3-389 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-390 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
recent	No	String	Time range for querying logs. This parameter cannot be used together with from or to at the same time. Parameter recent must be used with either from or to . Enumeration values: <ul style="list-style-type: none"> • yesterday • today • 3days • 1week • 1month
from	No	Long	Start time (13-digit timestamp). This parameter must be used together with to , but cannot be used together with recent .
to	No	Long	End time (13-digit timestamp). This parameter must be used together with from but cannot be used together with recent .

Parameter	Mandatory	Type	Description
attacks	No	Array	<p>Attack type</p> <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attacks • lfi: local file inclusion • cmdi: command injection attacks • xss: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attack hit the precision protection rule • cc: CC attacks • webshell: website Trojan • custom_whiteblackip: attacks that hit the blocklist and trustlist rule • custom_geoip: attacks that hit the geolocation access control rule • antitamper: attacks that hit the web tamper prevention rule • anticrawler: attacks that hit the anti-crawler rules • leakage: attacks that hit the information leakage prevention rule • illegal: illegal requests
hosts	No	Array	Domain name ID. It can be obtained by calling the **ListHost API.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-391 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 3-392 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ListEventItems objects	Details about an attack event

Table 3-393 ListEventItems

Parameter	Type	Description
id	String	Event ID
time	Long	Count
policyid	String	Policy ID
sip	String	Source IP address, which is the IP address of the web visitor (attacker's IP address).
host	String	Attacked domain name
url	String	Attacked URL

Parameter	Type	Description
attack	String	Attack type <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attack • lfi: local file inclusion • cmdi: command injection attacks • XSS: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attacks hit a precise protection rule • webshell: Trojan • custom_blacklist: attacks hit a blacklist or whitelist rule • custom_geoiip: attacks hit a geolocation access control rule • antitamper: attacks hit a web tamper prevention rule • anticrawler: attacks hit an anti-crawler rule • leakage: attacks hit an information leakage prevention rule • illegal: invalid requests
rule	String	ID of the matched rule
payload	String	Hit payload
payload_location	String	Hit Load Position
action	String	Protective action
request_line	String	Request method and path
headers	Object	HTTP request header
cookie	String	Request cookie
status	String	Response code status
process_time	Integer	Processing time
region	String	Geographical location
host_id	String	Domain name ID
response_time	Long	Time to response
response_size	Integer	Response body size

Parameter	Type	Description
response_body	String	Response body
request_body	String	Request body

Status code: 400

Table 3-394 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-395 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-396 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/event?
enterprise_project_id=0&page=1&pagesize=10&recent=today
```

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
```

```

"items" : [ {
  "id" : "04-0000-0000-0000-21120220421152601-2f7a5ceb",
  "time" : 1650525961000,
  "policyid" : "25f1d179896e4e3d87ceac0598f48d00",
  "host" : "x.x.x.x:xxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "url" : "/osclass/oc-admin/index.php",
  "attack" : "lfi",
  "rule" : "040002",
  "payload" : " file=../../../../../../../../etc/passwd",
  "payload_location" : "params",
  "sip" : "x.x.x.x",
  "action" : "block",
  "request_line" : "GET /osclass/oc-admin/index.php?
page=appearance&action=render&file=../../../../../../../../etc/passwd",
  "headers" : {
    "accept-language" : "en",
    "ls-id" : "xxxx-xxxx-xxxx-xxxx-9c302cb7c54a",
    "host" : "x.x.x.x",
    "lb-id" : "2f5f15ce-08f4-4df0-9899-ec0cc1fcdc52",
    "accept-encoding" : "gzip",
    "accept" : "*/*",
    "user-agent" : "Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
35.0.2309.372 Safari/537.36"
  },
  "cookie" : "HWWAFSEID=2a1d773f9199d40a53; HWWAFSESTIME=1650525961805",
  "status" : "418",
  "host_id" : "6fbe595e7b874dbbb1505da3e8579b54",
  "response_time" : 0,
  "response_size" : 3318,
  "response_body" : "",
  "process_time" : 2,
  "request_body" : "{}"
} ]
}

```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.5.2 This API is used to query details about an event of a specified ID.

Function

Querying Details About an Event of a Specified ID

URI

GET /v1/{project_id}/waf/event/{eventid}

Table 3-397 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
eventid	Yes	String	Event ID. It can be obtained by calling the ListEvent API.

Table 3-398 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-399 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-400 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ShowEventItems objects	Details about an attack event

Table 3-401 ShowEventItems

Parameter	Type	Description
time	Long	Timestamp when the attack occurs, in milliseconds.
policyid	String	ID of the policy
sip	String	Source IP address
host	String	Domain name
url	String	Attacked URL
attack	String	Attack type
rule	String	ID of the hit rule
action	String	Protective action
cookie	String	Cookie of the attack request
headers	Object	Header of the attack request
host_id	String	ID of the attacked domain name
id	String	Event ID
payload	String	Malicious load
payload_location	String	Malicious load location
region	String	Geographical location of the source IP address
process_time	Integer	Processing time
request_line	String	Body of the attack request
response_size	Integer	Response body size (byte)
response_time	Long	Response time (ms)
status	String	Response code
request_body	String	Request body

Status code: 400

Table 3-402 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-403 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-404 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/event{event_id}?enterprise_project_id=0

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
  "items" : [ {
    "id" : "09-0000-0000-0000-12120220421093806-a60a6166",
    "time" : 1650505086000,
    "policyid" : "173ed802272a4b0798049d7edffeff03",
    "host" : "x.x.x.x:xxxxxx-xxx-xxx-xxx-xxxxxxxxx",
    "url" : "/mobile/DBconfigReader.jsp",
    "attack" : "vuln",
    "rule" : "091004",
    "payload" : " /mobile/dbconfigreader.jsp",
    "payload_location" : "uri",
    "sip" : "x.x.x.x",
```

```

"action" : "block",
"request_line" : "GET /mobile/DBconfigReader.jsp",
"headers" : {
  "ls-id" : "c0d957e6-26a8-4f2e-8216-7fc9332a250f",
  "host" : "x.x.x.x:81",
  "lb-id" : "68d3c435-2607-45e0-a5e2-38980544dd45",
  "accept-encoding" : "gzip",
  "user-agent" : "Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 CSIRTx/2022"
},
"cookie" : "HWWAFSESID=2a0bf76a111c93926d; HWWAFSESTIME=1650505086260",
"status" : "418",
"region" : "Reserved IP",
"host_id" : "e093a352fd3a4ddd994c585e2e1dda59",
"response_time" : 0,
"response_size" : 3318,
"process_time" : 0,
"request_body" : "{}"
}]
}

```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.6 Querying the Domain Name of a Tenant

3.6.1 Querying Domain Names Protected with All WAF Instances

Function

This API is used to query the list of protection domain names.

URI

GET /v1/{project_id}/composite-waf/host

Table 3-405 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-406 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name
policyname	No	String	Policy name

Parameter	Mandatory	Type	Description
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
waf_type	No	String	WAF mode of the domain name
is_https	No	Boolean	Whether HTTPS is used for the domain name

Request Parameters

Table 3-407 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-408 Response body parameters

Parameter	Type	Description
total	Integer	Number of all protected domain names
cloud_total	Integer	Number of domain names protected with cloud WAF
premium_total	Integer	Number of domain names protected with dedicated WAF instances
items	Array of CompositeHostResponse objects	Details about the protected domain name

Table 3-409 CompositeHostResponse

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	<p>Domain name access status. The value can be 0 or 1. 0: The website traffic has not been routed to WAF. 1: The website traffic has been routed to WAF.</p>
proxy	Boolean	<p>Whether a proxy is used for the protected domain name.</p> <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.

Parameter	Type	Description
timestamp	Long	Time the domain name was added to WAF.
paid_type	String	Package-based payment mode. Currently, only the prepaid mode is supported.
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
premium_waf_instances	Array of Premium_waf_instances objects	List of dedicated WAF instances
description	String	Domain name description
exclusive_ip	Boolean	Whether to use a dedicated IP address.This parameter is reserved and can be ignored. <ul style="list-style-type: none"> • true: Use a dedicated IP address. • false: Do not use a dedicated IP address.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.

Table 3-410 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-411 Premium_waf_instances

Parameter	Type	Description
id	String	ID of the dedicated WAF instance
name	String	Name of the dedicated WAF instance
accessed	Boolean	Whether the domain name is added to the dedicated WAF instance. The options are true and false . <ul style="list-style-type: none"> • true: The domain name has been added to WAF. • false: The domain name has not been added to WAF.

Status code: 400

Table 3-412 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-413 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-414 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "items": [ {
    "id": "31af669f567246c289771694f2112289",
    "hostid": "31af669f567246c289771694f2112289",
    "description": "",
    "proxy": false,
    "flag": {
      "pci_3ds": "false",
      "pci_dss": "false",
      "ipv6": "false",
      "cname": "new",
      "is_dual_az": "true"
    },
    "region": "cn-north-4",
    "hostname": "www.demo.com",
    "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
    "policyid": "41cba8aee2e94bcdbf57460874205494",
    "timestamp": 1650527546454,
    "protect_status": 0,
    "access_status": 0,
    "exclusive_ip": false,
    "web_tag": "",
    "paid_type": "prePaid",
    "waf_type": "cloud"
  } ],
  "total": 1,
  "cloud_total": 1,
  "premium_total": 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.6.2 Querying a Domain Name by ID

Function

This API is used to query a protected domain name by ID.

URI

GET /v1/{project_id}/composite-waf/host/{host_id}

Table 3-415 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	Domain name ID. In the cloud mode, it can be obtained by calling the ListHost API. In the dedicated mode, it can be obtained by calling the ListPremiumHost API.

Table 3-416 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-417 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-418 Response body parameters

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
timestamp	Long	Time the domain name was added to WAF.
paid_type	String	Package-based payment mode. Currently, only the prepaid mode is supported.

Parameter	Type	Description
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
premium_waf_instances	Array of Premium_waf_instances objects	List of dedicated WAF instances
description	String	Domain name description
exclusive_ip	Boolean	Whether to use a dedicated IP address.This parameter is reserved and can be ignored. <ul style="list-style-type: none"> ● true: Use a dedicated IP address. ● false: Do not use a dedicated IP address.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.

Table 3-419 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
cname	String	The CNAME record being used. <ul style="list-style-type: none"> • old: The old CNAME record is used. • new: The new CNAME record is used. Enumeration values: <ul style="list-style-type: none"> • old • new
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-420 Premium_waf_instances

Parameter	Type	Description
id	String	ID of the dedicated WAF instance
name	String	Name of the dedicated WAF instance

Parameter	Type	Description
accessed	Boolean	Whether the domain name is added to the dedicated WAF instance. The options are true and false . <ul style="list-style-type: none"> • true: The domain name has been added to WAF. • false: The domain name has not been added to WAF.

Status code: 400

Table 3-421 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-422 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-423 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "31af669f567246c289771694f2112289",
  "hostid": "31af669f567246c289771694f2112289",
  "description": "",
  "proxy": false,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false",
    "ipv6": "false",
    "cname": "new",
    "is_dual_az": "true"
  },
  "region": "cn-north-4",
  "hostname": "www.demo.com",
  "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
  "policyid": "41cba8aee2e94bcdbf57460874205494",
  "timestamp": 1650527546454,
  "protect_status": 0,
  "access_status": 0,
  "exclusive_ip": false,
  "web_tag": "",
  "paid_type": "prePaid",
  "waf_type": "cloud"
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7 Managing Websites Protected by Dedicated WAF Engines

3.7.1 Querying Domain Names Protected by Dedicated WAF Engines

Function

This API is used to query the list of domain names connected to dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host

Table 3-424 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-425 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	String	Page number of the data to be returned during pagination query. Value range: 0 to 100,000 . The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	String	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name
policyname	No	String	Policy name

Parameter	Mandatory	Type	Description
protect_status	No	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Request Parameters

Table 3-426 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	<p>Content type.</p> <p>Default: application/json;charset=utf8</p>
X-Auth-Token	Yes	String	<p>User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).</p>

Response Parameters

Status code: 200

Table 3-427 Response body parameters

Parameter	Type	Description
total	Integer	Total number of protected domain names
items	Array of SimplePremiumWafHost objects	Array of details about all protected domain names

Table 3-428 SimplePremiumWafHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
hostid	String	Domain name ID, which is the same as the value of id and is a redundant field.

Table 3-429 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Status code: 400

Table 3-430 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-431 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-432 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "items" : [ {
    "id" : "ee896796e1a84f3f85865ae0853d8974",
    "hostname" : "www.demo.com",
    "extend" : { },
    "region" : "cn-north-4",
    "flag" : {
      "pci_3ds" : "false",
      "pci_dss" : "false"
    },
    "description" : "",
    "policyid" : "df15d0eb84194950a8fdc615b6c012dc",
```

```
"protect_status" : 1,
"access_status" : 0,
"hostid" : "ee896796e1a84f3f85865ae0853d8974"
}]
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7.2 Adding a Domain Name to a Dedicated WAF Instance

Function

This API is used to connect a domain name to a dedicated WAF instance.

URI

POST /v1/{project_id}/premium-waf/host

Table 3-433 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-434 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-435 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-436 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
certificatename	No	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
hostname	Yes	String	Protected domain name or IP address (port allowed)

Parameter	Mandatory	Type	Description
proxy	Yes	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> • false: No proxy is used. • true: A proxy is used.
policyid	No	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
server	Yes	Array of PremiumWafServer objects	Origin server configuration of the protected domain name
block_page	No	BlockPage object	Alarm page configuration. This parameter is optional. When a user-defined page needs to be configured, all subfields of this parameter are mandatory.
description	No	String	Remarks of the protected domain name

Table 3-437 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS

Parameter	Mandatory	Type	Description
weight	No	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	Yes	String	IP address of your origin server requested by the client
port	Yes	Integer	Port used by WAF to forward client requests to the origin server
type	Yes	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	Yes	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC \Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-438 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-439 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Response Parameters

Status code: 200

Table 3-440 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Protected domain names
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website. Enumeration values: <ul style="list-style-type: none"> • HTTPS • HTTP • HTTP&HTTPS
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether to use a proxy <ul style="list-style-type: none"> • true: A proxy is used. • false: No proxy is used.
locked	Integer	Domain name status. The value can be 0 or 1.0 : The domain name is not frozen. 1 : The domain name is frozen. This parameter is redundant in this version.
timestamp	Long	Time the domain name was added to WAF. The value is a 13-digit timestamp in ms.

Parameter	Type	Description
tls	String	<p>TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is available only when the client protocol is HTTPS.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3
cipher	String	<p>Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default.</p> <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description

Parameter	Type	Description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
block_page	BlockPage object	Alarm page configuration

Table 3-441 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> ● HTTP ● HTTPS

Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-442 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-443 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-444 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Status code: 400

Table 3-445 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-446 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-447 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "server": [ {
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a3319ae247",
    "type": "ipv4",
    "address": "x.x.x.x",
    "port": 80
  } ],
  "proxy": false,
  "description": ""
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "51a5649e52d341a9bb802044950969dc",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "x.x.x.x",
    "port": 80,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a3319ae247"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650596007113,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "1607df035bc847b582ce9c838c083b88",
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",
  "enterprise_project_id": "0",
  "protect_status": 1,
  "access_status": 0,
  "web_tag": ""
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7.3 Modifying a Domain Name Protected by a Dedicated WAF Instance

Function

This API is used to update configurations of domain names protected with a dedicated WAF instance. The new origin server information will overwrite the old origin server information. If you want to keep the old information, provide them as new data. You can provide only the updated information in the request body.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}

Table 3-448 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-449 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-450 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-451 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.

Parameter	Mandatory	Type	Description
certificatenam e	No	String	<p>Certificate name.</p> <ul style="list-style-type: none"> • This parameter is not required when the client protocol is HTTP. • This parameter is mandatory when the client protocol is HTTPS.
tls	No	String	<p>TLS version. TLS v1.0 is supported by default.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3

Parameter	Mandatory	Type	Description
cipher	No	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default:</p> <ul style="list-style-type: none"> cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH cipher_2: ECDH+AESGCM:EDH+AESGCM cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH cipher_default: The cryptographic algorithms are ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> cipher_1 cipher_2 cipher_3 cipher_4 cipher_default
mode	No	String	<p>Special domain name node in dedicated mode. This parameter is required only for special WAF modes, such as ELB.</p>

Parameter	Mandatory	Type	Description
locked	No	Integer	This parameter is reserved, which will be used to freeze a domain name.
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	No	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
timestamp	No	Integer	Timestamp.
pool_ids	No	Array of strings	Dedicated engine group the domain name was added to. This parameter is required only in special WAF mode, such as ELB mode.
block_page	No	BlockPage object	Alarm page configuration
traffic_mark	No	TrafficMark object	Traffic identifier
circuit_breaker	No	CircuitBreaker object	Circuit breaker configuration
timeout_config	No	TimeoutConfig object	Timeout settings

Table 3-452 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-453 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-454 TrafficMark

Parameter	Mandatory	Type	Description
sip	No	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	No	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	No	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-455 CircuitBreaker

Parameter	Mandatory	Type	Description
switch	No	Boolean	Whether to enable connection protection. <ul style="list-style-type: none">• true: Enable connection protection.• false: Disable the connection protection.
dead_num	No	Integer	502/504 error threshold. 502/504 errors allowed for every 30 seconds.
dead_ratio	No	Number	A breakdown protection is triggered when the 502/504 error threshold and percentage threshold have been reached.
block_time	No	Integer	Protection period upon the first breakdown. During this period, WAF stops forwarding client requests.
superposition_num	No	Integer	The maximum multiplier you can use for consecutive breakdowns. The number of breakdowns are counted from 0 every time the accumulated breakdown protection duration reaches 3,600s. For example, assume that Initial Downtime (s) is set to 180s and Multiplier for Consecutive Breakdowns is set to 3. If the breakdown is triggered for the second time, that is, less than 3, the protection duration is 360s (180s X 2). If the breakdown is triggered for the third or fourth time, that is, equal to or greater than 3, the protection duration is 540s (180s X 3). When the accumulated downtime duration exceeds 1 hour (3,600s), the number of breakdowns are counted from 0.

Parameter	Mandatory	Type	Description
suspend_num	No	Integer	Threshold of the number of pending URL requests. Connection protection is triggered when the threshold has been reached.
sus_block_time	No	Integer	Downtime duration after the connection protection is triggered. During this period, WAF stops forwarding website requests.

Table 3-456 TimeoutConfig

Parameter	Mandatory	Type	Description
connect_timeout	No	Integer	Timeout for WAF to connect to the origin server.
send_timeout	No	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	No	Integer	Timeout for WAF to receive responses from the origin server.

Response Parameters

Status code: 200

Table 3-457 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name

Parameter	Type	Description
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. The value can be TLS v1.0 , TLS v1.1 , or TLS v1.2 . TLS v1.0 is used by default. Enumeration values: <ul style="list-style-type: none"> ● TLS v1.0 ● TLS v1.1 ● TLS v1.2 ● TLS v1.3
cipher	String	Cipher suite. The value can be cipher_1 , cipher_2 , cipher_3 , cipher_4 , or cipher_default : cipher_1 : ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH <ul style="list-style-type: none"> ● cipher_2: ECDH+AESGCM:EDH+AESGCM ● cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH ● cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH ● cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. Enumeration values: <ul style="list-style-type: none"> ● cipher_1 ● cipher_2 ● cipher_3 ● cipher_4 ● cipher_default

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.

Parameter	Type	Description
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
lb_algorithm	String	Load balancing algorithm. Weighted round robin is used by default and cannot be changed.
block_page	BlockPage object	Alarm page configuration
traffic_mark	TrafficMark object	Traffic identifier
timeout_config	TimeoutConfig object	Timeout settings

Table 3-458 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Type	Description
vpc_id	String	<p>VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID.</p> <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-459 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI 3DS certification check. false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI DSS certification check. false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> old: The old CNAME record is used. new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> old new

Parameter	Type	Description
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-460 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-461 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-462 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-463 TimeoutConfig

Parameter	Type	Description
connect_timeout	Integer	Timeout for WAF to connect to the origin server.
send_timeout	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	Integer	Timeout for WAF to receive responses from the origin server.

Status code: 400

Table 3-464 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-465 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-466 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
{
  "proxy": false
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "27995fb98a2d4928a1e453e65ee8117a",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "192.168.0.209",
    "port": 80,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a8459ae247"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650590814885,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "9555cda636ef4ca294dfe4b14bc94c47",
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",
  "projectid": "05e33ecd328025dd2f7fc00696201fb4",
  "enterprise_project_id": "0",
  "protect_status": 1,
  "access_status": 0
}
```


Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7.4 Querying Domain Name Settings in Dedicated Mode

Function

This API is used to query settings of domain names protected with dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host/{host_id}

Table 3-467 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-468 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-469 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-470 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol. the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWafServer objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.

Parameter	Type	Description
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is required only when the client protocol is HTTPS. Enumeration values: <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3
cipher	String	Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1 , cipher_2 , cipher_3 , cipher_4 , or cipher_default . <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. Enumeration values: <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.

Parameter	Type	Description
block_page	BlockPage object	Alarm page configuration
traffic_mark	TrafficMark object	Traffic identifier
timeout_conf ig	TimeoutConf ig object	Timeout settings

Table 3-471 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Type	Description
vpc_id	String	<p>VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID.</p> <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-472 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI 3DS certification check. false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> true: The website passed the PCI DSS certification check. false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> true false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> old: The old CNAME record is used. new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> old new

Parameter	Type	Description
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-473 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-474 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-475 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP tag. HTTP request header field of the original client IP address.
cookie	String	Session tag. This tag is used by known attack source rules to block malicious attacks based on cookie attributes. This parameter must be configured in known attack source rules to block requests based on cookie attributes.
params	String	User tag. This tag is used by known attack source rules to block malicious attacks based on params attributes. This parameter must be configured to block requests based on the params attributes.

Table 3-476 TimeoutConfig

Parameter	Type	Description
connect_timeout	Integer	Timeout for WAF to connect to the origin server.
send_timeout	Integer	Timeout for WAF to send requests to the origin server.
read_timeout	Integer	Timeout for WAF to receive responses from the origin server.

Status code: 400

Table 3-477 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-478 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-479 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "protocol": "HTTPS",
  "server": [ {
    "address": "1.2.3.4",
    "port": 443,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTPS",
    "back_protocol": "HTTPS",
    "vpc_id": "ebfc553a-386d-4746-b0c2-18ff3f0e903d"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650593801380,
  "tls": "TLS v1.0",
  "cipher": "cipher_1",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "domainid": "0ee78615ca08419f81f539d97c9ee353",
  "projectid": "550500b49078408682d0d4f7d923f3e1",
  "protect_status": 1,
  "access_status": 0,
  "certificateid": "360f992501a64de0a65c50a64d1ca7b3",
  "certificatename": "certificatename75315"
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7.5 Deleting a Domain Name from a Dedicated WAF Instance

Function

This API is used to delete a domain name protected with a dedicated WAF instance.

URI

DELETE /v1/{project_id}/premium-waf/host/{host_id}

Table 3-480 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-481 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
keepPolicy	No	Boolean	Whether to retain the rule. false : The policy for the domain name will not be retained. true : The policy for the domain name will be retained. If the policy used for the domain name you want to delete is also used for other domain names, this parameter must be left blank. Default: 1

Request Parameters

Table 3-482 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-483 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.

Parameter	Type	Description
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
host_id	String	Domain name ID, which is the same as the value of <i>*id</i> . This field is redundant.

Table 3-484 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Status code: 400

Table 3-485 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-486 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-487 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "region": "cn-north-4",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "protect_status": 1,
  "access_status": 0,
  "hostid": "ee896796e1a84f3f85865ae0853d8974"
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.7.6 Modifying the Protection Status of a Domain Name in Dedicated Mode

Function

This API is used to modify the protection status of a domain name connected to a dedicated WAF instance.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}/protect-status

Table 3-488 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-489 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-490 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-491 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Response Parameters

Status code: 200

Table 3-492 Response body parameters

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Status code: 400

Table 3-493 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-494 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-495 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}/protect-status?enterprise_project_id=0
{
```

```
"protect_status" : 1  
}
```

Example Responses

Status code: 200

OK

```
{  
  "protect_status" : 1  
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8 Policy Management

3.8.1 Querying the Protection Policy List

Function

This API is used to query the protection policy list.

URI

GET /v1/{project_id}/waf/policy

Table 3-496 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-497 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Policy name

Request Parameters

Table 3-498 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-499 Response body parameters

Parameter	Type	Description
total	Integer	Total number of policies
items	Array of PolicyResponse objects	Array of protection policy information

Table 3-500 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> ● false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. ● true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String, String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-501 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-502 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-503 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-504 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-505 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-506 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-507 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "41cba8aee2e94bcdbf57460874205494",
    "name": "policy_2FHwFOKz",
    "level": 2,
    "action": {
      "category": "log"
    },
    "options": {
      "webattack": true,
      "common": true,
      "crawler": true,
      "crawler_engine": false,
      "crawler_scanner": true,
      "crawler_script": false,

```

```
"crawler_other" : false,  
"webshell" : false,  
"cc" : true,  
"custom" : true,  
"whiteblackip" : true,  
"geop" : true,  
"ignore" : true,  
"privacy" : true,  
"antitamper" : true,  
"antileakage" : false,  
"bot_enable" : true,  
"modulex_enabled" : false  
},  
"hosts" : [ ],  
"extend" : { },  
"timestamp" : 1650527546218,  
"full_detection" : false,  
"bind_host" : [ ]  
}]  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8.2 Creating a Protection Policy

Function

This API is used to create a protection policy. The system configures some default configuration items when generating the policy. To modify the default configuration items, call the API for updating the protection policy.

URI

POST /v1/{project_id}/waf/policy

Table 3-508 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-509 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-510 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-511 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Array of details of policies

Response Parameters

Status code: 200

Table 3-512 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.

Parameter	Type	Description
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-513 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-514 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> ● block ● log

Table 3-515 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-516 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-517 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-518 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-519 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-520 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0
{
  "name" : "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "precise" : false,
    "whiteblackip" : true,
    "geoiip" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "anticrawler" : false,
    "antileakage" : false,
    "followed_action" : false,
```

```

"bot_enable" : true,
"modulex_enabled" : false
},
"hosts" : [ ],
"extend" : { },
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ ]
}

```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
403	The resource quota is insufficient.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8.3 Querying a Policy by ID

Function

This API is used to query a policy by ID.

URI

GET /v1/{project_id}/waf/policy/{policy_id}

Table 3-521 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-522 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-523 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-524 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies

Parameter	Type	Description
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.

Parameter	Type	Description
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-525 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-526 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-527 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-528 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-529 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-530 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-531 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "whiteblackip" : true,
    "geoip" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "antileakage" : false,
    "bot_enable" : true,
    "modulex_enabled" : false
  },
  "hosts" : [ ],
  "extend" : { },
  "timestamp" : 1650529538732,
  "full_detection" : false,
  "bind_host" : [ ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8.4 Updating a Protection Policy

Function

This API is used to update a policy. The request body can contain only the part to be updated.

URI

PATCH /v1/{project_id}/waf/policy/{policy_id}

Table 3-532 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-533 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-534 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-535 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Array of details of policies
level	No	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Mandatory	Type	Description
full_detection	No	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	No	Action object	Protective actions for each rule in anti-crawler protection.
action	No	PolicyAction object	Protective action
options	No	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	No	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	No	Array of strings	Array of domain name IDs protected by the policy.
bind_host	No	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	No	Map<String, String>	Extended field, which is used to store the rule configuration of basic web protection.

Table 3-536 Action

Parameter	Mandatory	Type	Description
category	No	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-537 PolicyAction

Parameter	Mandatory	Type	Description
category	No	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-538 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	No	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
crawler	No	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	No	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	No	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	No	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	No	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	No	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	No	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
custom	No	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	No	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	No	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	No	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	No	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	No	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
bot_enable	No	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	No	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-539 BindHost

Parameter	Mandatory	Type	Description
id	No	String	Domain name ID
hostname	No	String	Domain name
waf_type	No	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	No	String	This parameter is required only by the dedicated mode.

Response Parameters

Status code: 200

Table 3-540 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies

Parameter	Type	Description
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.

Parameter	Type	Description
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-541 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> • log: WAF only logs discovered attacks. • block: WAF blocks discovered attacks.

Table 3-542 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-543 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-544 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-545 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-546 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-547 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PATCH https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

```
{
  "options" : {
    "whiteblackip" : false
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "level" : 2,
  "action" : {
    "category" : "log"
  },
  "options" : {
    "webattack" : true,
    "common" : true,
    "crawler" : true,
    "crawler_engine" : false,
    "crawler_scanner" : true,
    "crawler_script" : false,
    "crawler_other" : false,
    "webshell" : false,
    "cc" : true,
    "custom" : true,
    "precise" : false,
    "whiteblackip" : false,
    "geoup" : true,
    "ignore" : true,
    "privacy" : true,
    "antitamper" : true,
    "anticrawler" : false,
    "antileakage" : false,
    "followed_action" : false,
    "bot_enable" : true
  },
  "hosts" : [ "c0268b883a854adc8a2cd352193b0e13" ],
  "timestamp" : 1650529538732,
  "full_detection" : false,
  "bind_host" : [ {
    "id" : "c0268b883a854adc8a2cd352193b0e13",
    "hostname" : "www.demo.com",
    "waf_type" : "cloud"
  } ],
  "share_info" : {
    "is_receiver" : false,
    "provider_display" : {
      "share_count" : 0,
      "accept_count" : 0,
      "process_status" : 0
    }
  }
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8.5 Deleting a Protection Policy

Function

This API is used to delete a protection policy. If the policy is in use, unbind the domain name from the policy before deleting the policy.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}

Table 3-548 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-549 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-550 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-551 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> ● false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. ● true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String, String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-552 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-553 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-554 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-555 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-556 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-557 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-558 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "62169e2fc4e64148b775ec01b24a1947",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log",
    "modulex_category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
  }
}
```

```
"webshell" : false,  
"cc" : true,  
"custom" : true,  
"precise" : false,  
"whiteblackip" : true,  
"geoip" : true,  
"ignore" : true,  
"privacy" : true,  
"antitamper" : true,  
"anticrawler" : false,  
"antileakage" : false,  
"followed_action" : false,  
"bot_enable" : true,  
"modulex_enabled" : false  
},  
"hosts" : [ ],  
"extend" : { },  
"timestamp" : 1649316510603,  
"full_detection" : false,  
"bind_host" : [ ]  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.8.6 Updating the Domain Name Protection Policy

Function

This API is used to update protection policy applied to a domain name.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}

Table 3-559 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-560 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
hosts	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Request Parameters

Table 3-561 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-562 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
robot_action	Action object	Protective actions for each rule in anti-crawler protection.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
modulex_options	Map<String, Object>	Configurations about intelligent access control. Currently, this feature is still in the open beta test (OBT) phase and available at some sites.

Parameter	Type	Description
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-563 Action

Parameter	Type	Description
category	String	Protective action for feature-based anti-crawler rules: <ul style="list-style-type: none"> ● log: WAF only logs discovered attacks. ● block: WAF blocks discovered attacks.

Table 3-564 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> ● block ● log

Table 3-565 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
modulex_enabled	Boolean	Whether CC attack protection for moduleX is enabled. This feature is in the open beta test (OBT). During the OBT, only the log only mode is supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-566 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-567 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-568 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-569 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?
enterprise_project_id=0&hosts=c0268b883a854adc8a2cd352193b0e13
```

Example Responses

Status code: 200

OK

```
{
  "id": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log",
    "modulex_category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
    "webshell": false,
    "cc": true,
    "custom": true,
    "precise": false,
    "whiteblackip": true,
    "geoip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true,
    "anticrawler": false,
    "antileakage": false,
    "followed_action": false,
    "bot_enable": true,
    "modulex_enabled": false
  },
  "hosts": [ "c0268b883a854adc8a2cd352193b0e13" ],
  "extend": { },
  "timestamp": 1650529538732,
  "full_detection": false,
  "bind_host": [ {
    "id": "c0268b883a854adc8a2cd352193b0e13",
    "hostname": "www.demo.com",
    "waf_type": "cloud"
  } ],
  "share_info": {
    "is_receiver": false,
    "provider_display": {
      "share_count": 0,
      "accept_count": 0,
      "process_status": 0
    }
  }
}
```

```
}
}
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9 Rule Management

3.9.1 Changing the Status of a Rule

Function

This API is used to change the status of a single rule, for example, disabling a Precise Protection rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status

Table 3-570 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Parameter	Mandatory	Type	Description
ruletype	Yes	String	Policy Type Enumeration values: <ul style="list-style-type: none"> • whiteblackip • geoip • privacy • antitamper • custom • ignore
rule_id	Yes	String	Rule ID. It can be obtained by calling the specific API that is used to obtain the rule list of a certain type. For example, you can call the ListWhiteblackipRule API to obtain the ID of a blacklist or whitelist rule.

Table 3-571 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-572 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-573 Request body parameters

Parameter	Mandatory	Type	Description
status	No	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Response Parameters

Status code: 200

Table 3-574 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time when the rule was created.
description	String	Rule Description
status	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Status code: 400

Table 3-575 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-576 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-577 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status?
enterprise_project_id=0
```

```
{
  "status" : 0
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "709bfd0d62a9410394ffa9e25eb82c36",
  "policyid" : "62fd7f8c36234a4ebedabc2ce451ed45",
  "timestamp" : 1650362797070,
  "description" : "demo",
  "status" : 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.2 Querying Global Protection Whitelist (Formerly False Alarm Masking) Rules

Function

Querying Global Protection Whitelist (Formerly False Alarm Masking) Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-578 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-579 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-580 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-581 Response body parameters

Parameter	Type	Description
total	Integer	The number of global protection whitelist (formerly false alarm masking) rules in the protection policy.
items	Array of IgnoreRuleBody objects	Domain names the global protection whitelist (formerly false alarm masking) rule is used for.

Table 3-582 IgnoreRuleBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.

Parameter	Type	Description
url	String	The path for false masking alarms. This parameter is available only when mode is set to 0 .
rule	String	<p>Rules to be masked</p> <ul style="list-style-type: none"> • If you want to block a specific built-in rule, the value of this parameter is the rule ID. To query the rule ID, go to the WAF console, choose Policies and click the target policy name. On the displayed page, in the Basic Web Protection area, select the Protection Rules tab, and view the ID of the specific rule. You can also query the rule ID in the event details. • If you want to mask a type of basic web protection rules, set this parameter to the name of the type of basic web protection rules. xss: XSS attacks webshell: Web shells vuln: Other types of attacks sqli: SQL injection attack robot: Malicious crawlers rfi: Remote file inclusion lfi: Local file inclusion cmdi: Command injection attack • To bypass the basic web protection, set this parameter to all. • To bypass all WAF protection, set this parameter to bypass.
mode	Integer	Version number. The value 0 indicates the old version V1, and the value 1 indicates the new version V2. If the value of mode is 0, the conditions field does not exist, and the url and url_logic fields exist. When the value of mode is 1, the url and url_logic fields do not exist, and the conditions field exists.
url_logic	String	Matching logic. The value can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .
conditions	Array of Condition objects	Condition list
domain	Array of strings	Protecting Domain Names or Protecting Websites
advanced	Advanced object	Advanced settings

Table 3-583 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , or not_suffix .
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-584 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contentsts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-585 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-586 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-587 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-588 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?  
enterprise_project_id=0&page=1&pagesize=10
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "40484384970948d79ffe4e4ae1fc54d",
    "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
    "timestamp": 1650512535222,
    "description": "demo",
    "status": 1,
    "rule": "091004",
    "mode": 1,
    "conditions": [ {
      "category": "ip",
      "contents": [ "x.x.x.x" ],
      "logic_operation": "equal"
    } ],
    "domain": [ "we.test.418lab.cn" ]
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
403	Insufficient resource quota.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.3 Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

Function

Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-589 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-590 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-591 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-592 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	Array of strings	Domain name or website to be protected. If the array length is 0 , the rule takes effect for all domain names or websites.

Parameter	Mandatory	Type	Description
conditions	Yes	Array of CreateCondition objects	Condition list
mode	Yes	Integer	The value is fixed at 1 , indicating v2 false alarm masking rules. v1 is used only for compatibility with earlier versions, and false alarm rules cannot be created in v1.
rule	Yes	String	<p>Items to be masked. You can provide multiple items and separate them with semicolons (;).</p> <ul style="list-style-type: none"> • If you want to block a specific built-in rule, the value of this parameter is the rule ID. To query the rule ID, go to the WAF console, choose Policies and click the target policy name. On the displayed page, in the Basic Web Protection area, select the Protection Rules tab, and view the ID of the specific rule. You can also query the rule ID in the event details. • If you want to mask a type of basic web protection rules, set this parameter to the name of the type of basic web protection rules. xss: XSS attacks webshell: Web shells vuln: Other types of attacks sqli: SQL injection attack robot: Malicious crawlers rfi: Remote file inclusion lfi: Local file inclusion cmdi: Command injection attack • To bypass the basic web protection, set this parameter to all. • To bypass all WAF protection, set this parameter to bypass.

Parameter	Mandatory	Type	Description
advanced	No	Advanced object	Advanced settings
description	No	String	Description of a masking rule

Table 3-593 CreateCondition

Parameter	Mandatory	Type	Description
category	Yes	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Yes	Array of strings	Content. The array length is limited to 1 . The content format varies depending on the field type. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be in the standard URL format. IF the field type is params , cookie , or header , the content format is not limited.
logic_operation	Yes	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .
check_all_indexes_logic	No	Integer	This parameter is reserved and can be ignored.

Parameter	Mandatory	Type	Description
index	No	String	If the field type is ip and the subfield is the client IP address, the index parameter is not required. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-594 Advanced

Parameter	Mandatory	Type	Description
index	No	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contensts	No	Array of strings	Subfield of the specified field type. The default value is all .

Response Parameters

Status code: 200

Table 3-595 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description

Parameter	Type	Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
rule	String	ID of the built-in rule to be masked. You can query the rule ID by choosing Policies > Policy Name > Basic Web Protection > Protection Rules on the WAF console or on the event details page.
mode	Integer	The value is fixed at 1 , indicating v2 false alarm masking rules are used. v1 is used only for compatibility with earlier versions, and false alarm rules cannot be created in v1.
conditions	Array of Condition objects	Condition list
advanced	Advanced object	Advanced settings
domain	Array of strings	Protected domain name or website

Table 3-596 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , or not_suffix .
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.

Parameter	Type	Description
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-597 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contensts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-598 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-599 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-600 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?enterprise_project_id=0
{
  "domain": [ "we.test.418lab.cn" ],
  "conditions": [ {
    "category": "url",
    "logic_operation": "contain",
    "contents": [ "x.x.x.x" ],
    "index": null
  } ],
  "mode": 1,
  "description": "demo",
  "rule": "091004"
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "a57f20ced01e4e0d8bea8e7c49eea254",
  "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp": 1650522310447,
  "description": "demo",
  "status": 1,
  "rule": "091004",
  "mode": 1,
  "conditions": [ {
    "category": "url",
    "contents": [ "x.x.x.x" ],
    "logic_operation": "contain"
  } ],
  "domain": [ "we.test.418lab.cn" ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.4 Deleting a Global Protection Whitelist (Formerly False Alarm Masking) Rule

Function

Deleting a Global Protection Whitelist (Formerly False Alarm Masking) Rule

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}

Table 3-601 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a false alarm masking rule. You can obtain the rule ID from the id field in the response body of the ListIgnoreRule API, which is used for querying false alarm masking rules.

Table 3-602 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-603 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-604 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	The path for false masking alarms. This parameter is available only when mode is set to 0 .

Parameter	Type	Description
rule	String	ID of the built-in rule to be masked. You can query the rule ID by choosing Policies > Policy Name > Basic Web Protection > Protection Rules on the WAF console or on the event details page.
mode	Integer	Version number. The value can be 0 or 1 . 0 : indicates the old version V1. 1 indicates the new version V2. When the value of mode is 0 , the conditions field does not exist, but the url and url_logic fields exist. When the value of mode is 1 , the url and url_logic fields do not exist, but the conditions field exists.
url_logic	String	URL match logic
conditions	Array of Condition objects	Filter
advanced	Advanced object	Advanced settings
domains	Array of strings	Protected domain name or website

Table 3-605 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip , url , params , cookie , or header .
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip , the value must be an IP address or IP address range. If the field type is url , the value must be a URL in standard format. If the field type is params , cookie , or header , the content format is not limited.
logic_operation	String	The matching logic varies depending on the field type. For example, if the field type is ip , the logic can be equal or not_equal . If the field type is url , params , cookie , or header , the logic can be equal , not_equal , contain , not_contain , prefix , not_prefix , suffix , not_suffix .

Parameter	Type	Description
check_all_indexes_logic	Integer	This parameter is reserved and can be ignored.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For , the value is x-forwarded-for . If the field type is params , header , or cookie , and the subfield is user-defined, the value of index is the user-defined subfield.

Table 3-606 Advanced

Parameter	Type	Description
index	String	Field type. The following field types are supported: params , cookie , header , body , and multipart . <ul style="list-style-type: none"> When you select params, cookie, or header, you can set this parameter to all or configure subfields as required. When you select body or multipart, set this parameter to all.
contentsts	Array of strings	Subfield of the specified field type. The default value is all .

Status code: 400

Table 3-607 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-608 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-609 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "40484384970948d79ffe4e4ae1fc54d",
  "policyid" : "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp" : 1650512535222,
  "description" : "demo",
  "status" : 1,
  "rule" : "091004",
  "mode" : 1,
  "conditions" : [ {
    "category" : "ip",
    "contents" : [ "x.x.x.x" ],
    "logic_operation" : "equal"
  } ],
  "domain" : [ "we.test.418lab.cn" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.5 Querying the Blacklist and Whitelist Rule List

Function

This API is used to query the list of blacklist and whitelist rules.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-610 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-611 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Name of the whitelist or blacklist rule

Request Parameters

Table 3-612 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-613 Response body parameters

Parameter	Type	Description
total	Integer	Number of the whitelist and blacklist rules
items	Array of WhiteBlackIpResponseBody objects	Details of blacklist or whitelist rules

Table 3-614 WhiteBlackIpResponseBody

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
timestamp	Long	Timestamp (ms) when the rule was created
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
addr	String	IP address/IP address group

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group

Table 3-615 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-616 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-617 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-618 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "3c96caf769ca4f57814fcf4259ea89a1",
    "policyid": "4dddfd44fc89453e9fd9cd6bfdc39db2",
    "name": "hkhtest",
    "timestamp": 1650362891844,
    "description": "demo",
    "status": 1,
    "addr": "x.x.x.x",
    "white": 0
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.6 Creating a Blacklist/Whitelist Rule

Function

This API is used to create a blacklist or whitelist rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-619 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-620 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-621 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-622 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rule name. The value can contain a maximum of 64 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed.
addr	No	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group_id	No	String	ID of the created IP address group. Use either this parameter or addr . To add an IP address group, go to the WAF console, choose Objects > Address Groups , and click Add Address Group .

Response Parameters

Status code: 200

Table 3-623 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
description	String	Rule Description
timestamp	Long	Time a rule is created. The value is a 13-digit timestamp in millisecond.

Table 3-624 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-625 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-626 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-627 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name": "demo",
  "white": 0,
  "description": "demo",
  "addr": "x.x.x.x"
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "x.x.x.x",
  "white": 0,
  "size": 1
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.7 Updating a Blacklist or Whitelist Protection Rule

Function

This API is used to update blacklist and whitelist protection rules. You can update IP addresses, IP address ranges, protective actions, and other information.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-628 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the blacklist or whitelist rule. It can be obtained by calling the **ListWhiteblackipRule API.

Table 3-629 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-630 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-631 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the whitelist or blacklist rule
addr	No	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
ip_group_id	No	String	ID of the created IP address group. Use either this parameter or addr . To add an IP address group, go to the WAF console, choose Objects > Address Groups , and click Add Address Group .

Response Parameters

Status code: 200

Table 3-632 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
addr	String	IP address or IP address ranges included in the whitelist or blacklist rule.
description	String	Description of the blacklist or whitelist rule
white	Integer	Protective action <ul style="list-style-type: none">● 0: WAF blocks requests that hit the rule.● 1: WAF allows requests that hit the rule.● 2: WAF only record requests that hit the rule.
ip_group	ip_group object	IP address group

Table 3-633 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400**Table 3-634** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-635 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-636 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name": "demo",
  "white": 0,
  "description": "demo",
  "addr": "1.1.1.2"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "1.1.1.2",
  "white": 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.8 Deleting a Blacklist or Whitelist Rule

Function

This API is used to delete a blacklist or whitelist rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-637 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a blacklist or whitelist rule. You can obtain the rule ID by calling the ListWhiteblackipRule API.

Table 3-638 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-639 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-640 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the whitelist or blacklist rule
timestamp	Long	Time a rule is deleted. The value must be a 13-digit timestamp in millisecond.
description	String	Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> 0: WAF blocks requests that hit the rule. 1: WAF allows requests that hit the rule. 2: WAF only record requests that hit the rule.
ip_group	Ip_group object	IP address group

Table 3-641 Ip_group

Parameter	Type	Description
id	String	ID of the IP address group
name	String	Name of the IP address group
size	Long	Number of IP addresses or IP address ranges in the IP address group

Status code: 400

Table 3-642 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-643 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-644 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "1.1.1.2",
  "white": 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.9 Querying a Data Masking Rule

Function

This API is used to query a data masking rule.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-645 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-646 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-647 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-648 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules
items	Array of PrivacyResponseBody objects	Array of rule details

Table 3-649 PrivacyResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-650 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-651 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-652 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "97e4d35f375f4736a21cccfad77613eb",
    "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
    "timestamp": 1650533191385,
    "description": "demo",
    "status": 1,
    "url": "/demo",
    "category": "cookie",
    "index": "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.10 Creating a Data Masking Rule

Function

This API is used to create a data masking rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-653 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-654 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-655 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-656 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form

Parameter	Mandatory	Type	Description
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-657 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form

Parameter	Type	Description
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-658 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-659 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-660 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.11 Updating a Data Masking Rule

Function

This API is used to update a data masking rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-661 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-662 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-663 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-664 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-665 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID

Parameter	Type	Description
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-666 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-667 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-668 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "description" : "demo",
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.12 Deleting a Data Masking Rule

Function

This API is used to delete a data masking rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-669 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-670 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-671 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-672 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
description	String	(Optional) A description of the rule.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.

Status code: 400

Table 3-673 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-674 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-675 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.13 Querying the List of Geolocation Access Control Rules

Function

Querying the List of Geolocation Access Control Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/geoip

Table 3-676 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-677 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-678 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-679 Response body parameters

Parameter	Type	Description
total	Integer	Number of geolocation access control rules in the policy
items	Array of GeoIpItem objects	Array of geolocation access control rules

Table 3-680 GeOIpItem

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the geolocation access control rule
geoip	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-681 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-682 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-683 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "items" : [ {
    "id" : "06f07f6c229141b9a4a78614751bb687",
    "policyid" : "2abeecefb9840e6bf05efbd80d0fcd7",
    "timestamp" : 1636340038062,
    "status" : 1,
    "geoip" : "GD",
    "white" : 1,
    "name" : "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.14 Creating a Geolocation Access Control Rule

Function

Creating a Geolocation Access Control Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/geoup

Table 3-684 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-685 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-686 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-687 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	No	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-688 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN: China, CA: Canada, US: The United States, AU: Australia, IN: India, JP: Japan, UK: United Kingdom, FR: France, DE: Germany, BR: Brazil, Thailand: Thailand, Singapore: Singapore, South Africa: South Africa, Mexico: Mexico, Peru: Peru, Indonesia: Indonesia, GD Guangdong, FJ: Fujian, JL: Jilin, LN: Liaoning, TW: Taiwan (China), GZ: Guizhou, AH: Anhui, HL: Heilongjiang, HA: Henan, SC: Sichuan, HE: Hebei, YN: Yunnan, HB: Hubei, HI: Hainan, QH: Qinghai, HN: Hunan, JX: Jiangxi, SX: Shanxi, SN: Shaanxi, ZJ: Zhejiang, GS: Gansu, JS: Jiangsu, SD: Shandong, BJ: Beijing, SH: Shanghai, TJ: Tianjin, CQ: Chongqing, MO: Macao (China), HK: Hong Kong (China), NX: Ningxia, GX: Guangxi, XJ: Xinjiang, XZ: Tibet, NM: Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-689 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-690 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-691 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip?enterprise_project_id=0
{
  "white" : 0,
  "description" : "demo",
  "name" : "demo",
  "geoip" : "SH|Afghanistan"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "SH|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "SH", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.15 Updating a Geolocation Access Control Rule

Function

Updating a Geolocation Access Control Rule

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-692 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API (value of the id field in the response body).
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-693 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-694 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-695 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule
description	No	String	Description

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Response Parameters

Status code: 200

Table 3-696 Response body parameters

Parameter	Type	Description
id	String	Rule ID

Parameter	Type	Description
name	String	Name of the geolocation access control rule
description	String	Description
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-697 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-698 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-699 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
{
  "white" : 0,
  "name" : "demo",
  "geoip" : "BJ|Afghanistan"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "description" : "demo",
  "geoip" : "BJ|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "BJ", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.16 Deleting a Geolocation Access Control Rule

Function

This API is used to delete a geolocation access control rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-700 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-701 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-702 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-703 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, CA : Canada, US : The United States, AU : Australia, IN : India, JP : Japan, UK : United Kingdom, FR : France, DE : Germany, BR : Brazil, Thailand : Thailand, Singapore : Singapore, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
description	String	Description
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-704 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-705 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-706 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "BJ|Afghanistan",
  "white" : 0,
  "geoTagList" : [ "BJ", "Afghanistan" ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.17 Querying the List of Web Tamper Protection Rules

Function

This API is used to query the list of web tamper protection rules.

URI

```
GET /v1/{project_id}/waf/policy/{policy_id}/antitamper
```

Table 3-707 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-708 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-709 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-710 Response body parameters

Parameter	Type	Description
total	Integer	Total number of web tamper protection rules
items	Array of AntiTamperRuleResponseBody objects	Number of web tamper protection rules.

Table 3-711 AntiTamperRuleResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule remarks
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule

Status code: 400

Table 3-712 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-713 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-714 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "b77c3182957b46ed8f808a1998245cc4",
    "policyid": "bdba8e224cbd4d11915f244c991d1720",
    "timestamp": 1647499571037,
    "description": "",
    "status": 0,
    "hostname": "www.demo.com",
    "url": "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.18 Creating a Web Tamper Protection Rule

Function

This API is used to create a web tamper protection rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/antitamper

Table 3-715 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-716 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-717 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-718 Request body parameters

Parameter	Mandatory	Type	Description
hostname	Yes	String	Protected websites. The list can be obtained by calling the ListHost API in cloud mode (the value of the hostname field in the response body).
url	Yes	String	URL protected by the web tamper protection rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The <i>asterisk (*)</i> indicates the path prefix.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-719 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
hostname	String	Domain name protected by the web tamper protection rule

Parameter	Type	Description
url	String	URL protected by the web tamper protection rule
description	String	Timestamp the rule was created.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.

Status code: 400

Table 3-720 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-721 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-722 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "url": "/test",
```

```
"description" : "demo"  
}
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "eed1c1e9c1b04b4bad4ba1186387a5d8",  
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",  
  "timestamp" : 1650594937397,  
  "description" : "demo",  
  "status" : 1,  
  "hostname" : "www.demo.com",  
  "url" : "/test"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.19 Deleting a Web Tamper Protection Rule

Function

This API is used to delete a web tamper protection rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}

Table 3-723 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the anti-tamper rule. It can be obtained by calling the ListAntitamperRule API.

Table 3-724 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-725 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-726 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL protected by the web tamper protection rule
timestamp	Long	Timestamp the rule was created.

Status code: 400

Table 3-727 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-728 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-729 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}?
enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total" : 1,
  "items" : [ {
    "id" : "b77c3182957b46ed8f808a1998245cc4",
    "policyid" : "bdba8e224cbd4d11915f244c991d1720",
    "policyname" : "demo",
    "timestamp" : 1647499571037,
    "description" : "",
    "status" : 0,
    "hostname" : "www.demo.com",
    "url" : "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.20 Querying the Reference Table List

Function

This API is used to query the reference table list.

URI

GET /v1/{project_id}/waf/valuelist

Table 3-730 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-731 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.
name	No	String	Reference table name

Request Parameters

Table 3-732 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-733 Response body parameters

Parameter	Type	Description
total	Integer	Number of reference tables Minimum: 0 Maximum: 500
items	Array of ValueListResponseBody objects	Reference table list Array Length: 0 - 10

Table 3-734 ValueListResponseBody

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • response_body
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table
producer	Integer	Reference table source. The value can be 1 or others. 1 : The table is created by you. Other values indicate that the table is automatically generated by moduleX.
description	String	Reference table description

Status code: 400

Table 3-735 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-736 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-737 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "3b03be27a40b45d3b21fe28a351e2021",
    "name": "ip_list848",
    "type": "ip",
    "values": [ "100.100.100.125" ],
    "timestamp": 1650421866870,
    "producer": 1,
    "description": "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.21 Creating a Reference Table

Function

This API is used to add a reference table. A reference table can be used by CC attack protection rules and precise protection rules.

URI

POST /v1/{project_id}/waf/valuelist

Table 3-738 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-739 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-740 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-741 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed. Minimum: 2 Maximum: 64
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • response_body
values	Yes	Array of strings	Value of the reference table

Parameter	Mandatory	Type	Description
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: 200

Table 3-742 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table
producer	Integer	Source of the reference table. <ul style="list-style-type: none"> 1: The reference table was created by you. 2: The reference table was created by the intelligent access control protection.

Status code: 400

Table 3-743 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-744 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-745 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
{
  "name": "demo",
  "type": "url",
  "values": [ "/124" ],
  "description": "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "e5d9032d8da64d169269175c3e4c2849",
  "name": "demo",
  "type": "url",
  "values": [ "/124" ],
  "timestamp": 1650524684892,
  "description": "demo",
  "producer": 1
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.22 Modifying a Reference Table

Function

This API is used to modify a reference table.

URI

PUT /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-746 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-747 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-748 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-749 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name, which is a string of 2 to 32 characters. Minimum: 2 Maximum: 32
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header • response_code • response_header • resopnse_body
values	No	Array of strings	Value of the reference table

Parameter	Mandatory	Type	Description
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: 200

Table 3-750 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type
description	String	Reference table description
values	Array of strings	Value of the reference table
producer	Integer	Source of the reference table. <ul style="list-style-type: none"> • 1: The reference table was created by you. • 2: The reference table was created by the intelligent access control protection.

Status code: 400

Table 3-751 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-752 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-753 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0
{
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "63b1d9edf2594743bc7c6ee98527306c",
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo",
  "producer" : 1
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.9.23 Deleting a Reference Table

Function

This API is used to delete a reference table.

URI

DELETE /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-754 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-755 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-756 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-757 Response body parameters

Parameter	Type	Description
id	String	ID of a reference table
name	String	Reference table name.
type	String	Reference table type
timestamp	Long	Time the reference table is deleted. The value is a 13-digit timestamp in millisecond.

Status code: 400

Table 3-758 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-759 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-760 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "63b1d9edf2594743bc7c6ee98527306c",  
  "name" : "RPmvp0m4",  
  "type" : "response_code",  
  "timestamp" : 1640938602391  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10 Certificate Management

3.10.1 Querying the List of Certificates

Function

This API is used to query the list of certificates.

URI

GET /v1/{project_id}/waf/certificate

Table 3-761 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-762 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10

Parameter	Mandatory	Type	Description
name	No	String	Certificate name
host	No	Boolean	Whether to obtain the domain name for which the certificate is used. The default value is false . <ul style="list-style-type: none"> • true: Obtain the certificates that have been used for domain names. • false: Obtain the certificates that have not been used for any domain name. Default: false
exp_status	No	Integer	Certificate status. The options are as follows: 0: not expired; 1: expired; 2: about to expire (The certificate will expire within one month.)

Request Parameters

Table 3-763 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-764 Response body parameters

Parameter	Type	Description
items	Array of CertificateBody objects	Certificates
total	Integer	Total number of certificates

Table 3-765 CertificateBody

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate name
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The value can be: 0 : The certificate is valid. 1 : The certificate has expired. 2 : The certificate will expire within one month.
timestamp	Long	Certificate upload timestamp.
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-766 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-767 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-768 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-769 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [{
    "id": "dc443ca4f29c4f7e8d4adaf485be317b",
    "name": "demo",
    "timestamp": 1643181401751,
    "expire_time": 1650794100000,
    "bind_host": [],
    "exp_status": 2
  }]
}
```


Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10.2 Uploading a Certificate

Function

This API is used to upload a certificate.

URI

POST /v1/{project_id}/waf/certificate

Table 3-770 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-771 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-772 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-773 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.
content	Yes	String	Certificate file. Only certificates and private key files in PEM format are supported, and the newline characters in the file must be replaced with \n.
key	Yes	String	Certificate private key. Only certificates and private key files in PEM format are supported, and the newline characters in the files must be replaced with \n.

Response Parameters

Status code: 200

Table 3-774 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name

Parameter	Type	Description
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-775 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-776 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-777 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-778 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
{
  "name": "demo",
  "content": "-----BEGIN CERTIFICATE----- \
\nMIIDyzCCARogAwIBAgIJAN5U0Z4Bh5ccMA0GCSqGSIb3DQEBCwUAMHwxCzAJBgNV
BAYTAipMRiweAYDVQQIDAIHVUFOR0RPTkcxETAPBgNVBACMCERPTkdHVUFOMQ0w
CwYDVQQKDARERUUFtFMQswCQYDVQQLDAJESzELMAKGA1UEAwwCT0QxHTAbBgkqhkiG
9w0BCQEWDk8IZC5odWF3Z3ZkY29tMB4XDTEyMTExNTA4MTk0MVoXDTIyMTExNTA4
MTk0MVoVowfDELMAGGA1UEBhMCWkxgEjAQBgNVBAGMCUdVQU5HRE9ORzERMA8GA1UE
BwwIRE9OR0dVQU4xDALBgNVBAoMBERFS0UxXzAJBgNVBAsMAkRMLMwCQYDVQQDD
DAJPRDEdMBsGCSqGSIb3DQEJARYOTwhkLmh1YXdlA55jb20wggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDcoLfk62//r0RHFyweYBj97S4Nsj8Qj0RG+Y02
OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr /
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2OyBxT+ocTLRgEIB8ZbvJyPNseg
feLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+sWJMniA2yljSBQ0DEAOSusXo FQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kyww+9pYi8L+mKeRL+lCMMbXC/3k6OfMB
tVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJZTPH6lYtAgMBAAGjUDBOMB0G
A1UdDgQWBQBQprUUFxw+gIkpzXdrYlsWjSahWjAfbgNVHSMEGDAWgBQprUUFxw+g
IkpzXdrYlsWjSahWjAfbgNVHRMBETADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQA2
603KozsQoIkELvqDjlcAXwWRfNw8SvlaSJAulhHgneMt9bQgIL+3PJWA/iMniOhU o/
kVwkiUlcw4t7RwP0hVms0OZw59MuqKd3oCSWkYO4vEHs3t40JDWnGDnmQ4sol
RkOWJwL4w8tnPe3qY9JSupjsu6Y1hVktEfN2vEKFnsuMhidkUpUAJWodHhWBQH
wglDo4/6yTnWZNGK8JDal86Dm5IchXea1EoYBjsHxiJb7HeWQlkre+MCYi1RHOin 4mlXTr0oT4/jWlglkSz6/
ZhGRq+7W7tl7cvzCe+4XsVZlenAcYoNd/WLfo91PD4 yAsRrXoJw1so1Bj0BkdZ\ \
-----END CERTIFICATE-----",
  "key": "-----BEGIN PRIVATE KEY----- \
\nMIIEvwwIBADANBgkqhkiG9w0BAQEFAASCBKkwggSIAgEAAoIBAQDcoLfk62//r0RH
FyweYBj97S4Nsj8Qj0RG
+Y02OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr/
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2Oy BxT
+ocTLRgEIB8ZbvJyPNsegfeLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+ sWJMniA2yljSBQ0DEAOSusXoFQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kyww+9pYi 8L+mKeRL+lCMMbXC/
3k6OfMBtVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJ ZTPH6lYtAgMBAECCgEBAL+xZxm/QoqXT
+2stoqV2GEYaMfASpRqxlzCjMmEE/9 jZa+cBWIjHhVPSjRqYfBDcHHebu0JwlrjclAvgnlvnO5XgXm1A9Q
+WbscokmX1 xCvpHgc+MDVn+uWdCd4KW5kEk4EnSsFN5iNSf+1VxNURN+gwSSp/0E+muwA5IISO G6HQ
+p6qs52JAitX5t/7ruKoHYXjXbnf7TUs7768qrh++KPKpPlq044qoYlcGO1n 4urPBHuNly04GgGw
+vkaqjQvZrNLVOMMaFWBxsDWBehgSSBQTj+f3NCxneGYtt8 3SCTZQI5nlkb+r/
M455EwKTSXuEsNHolwx7L6GEPbQECgYEA8lxgK2fykloIcOH
TFJaRAvyjKa2+Aza4qT9SGY9Y30VPClPjBB1vUu5M9KrFufzlv06nGEcHmpEwOe
8vbRu7nLAQTGYFi8VK63q8w6FIldAyCG6Sx+BWcfWxZxSLAJTfklwi8HsOSlqh
6QNv0xbE2fLjXkF8MHvtrufip40CgYEA6sy87eDrkVgtq4ythAik3i1C5Z3v0fVx mTBlG5Z221OyocNq3Tf/
b1Zwolc1ik6cyBzY6z1blrbSzArCqm0sb2iD+kjL81O0 /qqdXjBxZuKiVAMNNp7xjGZHHFKWUxT2+UX/
```

```
tlyx4tT4dZrFlkdDXkcMmqfsRxd 1NEVaAaT8SECgYAOu7BPtPlun43YTpFUfr3pSIN6oZeKoxSbw9i4MNC
+4fSDRPC+ 80ImcmZRL7taF+Y7p0jxAOTuIkDJC8NbAiv5J9WzrwQ+5MF2BPB/2bYnRa6tNofH kZDy/
9bXySl6qw2p5Ety8wVcgZTMvFMGiG/32lpZ65FYWEU8L5qSRwfFhQKBgQC9 ihjZTj/bTHtRiHZppzCvyYm/lgd
+Uwtsy0uXR1n0G1SQENgrTBD/J6AzdfJae6tE P0U8YIM5Oqxf2i/as9ay+IPRecMl4eSxz7jJWAGx6Yx/3AZ
+hAB1ZbNbqniCLYNk d0MvjwmA25ATO+ro4OZ7AdEpQbk3l9aG/WFyYBz9AQKBgQCucFPA1l5esL8196V
WMr2Qo0tqzl7CGSoWQk2Sa2HZtZdfofXAaaqo+zvJ6RPHtJh0jgJtx536Dvv3egI
37YrdQyJbCPZXQ3SPgqWCorUnXBwq/nxS06uwu6JBxUFc57ijmMU4fWYNrvkkmWb 7keAg/
r5Uy1joMAvBN1l6lB8pg==\n -----END PRIVATE KEY-----"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "64af92e2087d49cbabc233e9bdc761b7",
  "name" : "testly",
  "timestamp" : 1658994431596,
  "expire_time" : 1682394560000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10.3 Querying a Certificate

Function

This API is used to query a certificate.

URI

GET /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-779 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-780 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-781 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-782 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-783 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-784 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-785 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-786 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "6e2be127b79f4a418414952ad5d8c59f",
  "name": "certificatename94319",
  "content": "-----BEGIN CERTIFICATE-----\nMIIB
+TCCAaOgAwIBAgIUJP9I8OupQ77w0bGL2yWOQXreM4kwDQYJKoZIhvcNAQELBQAwUTELMAkGA1UEBhMC
QVUxEzARBgNVBAgMClNvbWUtU3RhdGUxLzYwMDYwMDYwMDYwMDYwMDYwMDYwMDYwMDYwMDYwMDYwMDYw
aWNsb3VkLmNvbTAeFw0yMDA3MDkwNTQ2MDRaFw0yMDA4MDgwNTQ2MDRaMFExCzAJBgNVBAYTAkFV
MRMwEQYDVQQIDApTb211LVN0YXRIMQ8wDQYDVQQKDAZlWF3ZWkxHDAaBgNVBAMME3dhZi5odWF3Z3Z
WljG91ZC5jb20wXDANBgkqhkiG9w0BAQEFAANLADBIACEA0UEBmZbvgOJTKrKcDUw9xjFqxM7BaQFM3SLs
Qlmd5hkzygyL1ra
+cWajPJITCz9Ph6qldna2+OrluTdvCcpjwIDAQABo1MwUTAdBgNVHQ4EFgQUE7ZQNcgl3lmryx1s5gy9mnC1rs
YwHwYDVR0jBBgwFoAUE7ZQNcgl3lmryx1s5gy9mnC1rsYwDwYDVR0TAQH/BAUwAwEB/
zANBgkqhkiG9w0BAQsFAANBAM5wGi88jYWLgOnGbae5hH3I9IMBKxGqv17Cbm1tjWuUogVINz86lqvCpuhzL
D/vzJAqPluDwqM8uvzjgRfZs8=\n-----END CERTIFICATE-----",
  "key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIBOQIBAAJBANFBGzM274DiUyqynA1MPcYxasTOwWkBTN0i7EJZg+YZM8oMi9a2vnFmozyZUwsc/
T4eqpXZ2tvjqyLk3bwnKY8CAwEAAQJBAI7LMPaH/HQk/b/bVmY0qsr
+me9nb9BqFLuqwzKbx0hSmWPOWfsd3rOFISopyHqgYtAsPfvPumEdGbdnCyU8zAECIQD71768K1ejb
+ei2lqZqHaczqdUNQxMh54yot9F2yVWjwIhANS1Y1Jv89WEU/ZvMS9a4638Msv2c4Gp08RtXNYn0BAiA0H4b
+cwoEbZjHf+HYg6Fo+uxu5TvSaw8287a6Qo0LyQifVZSIYwPlT6oiX5rdLzBiap4N0gJWdsa2ihmV59LAQIgK8N
+j1daq63b0bJ9k4HruhQtpgxI6U9nFBemH4zTRYM=\n-----END RSA PRIVATE KEY-----",
  "timestamp": 1650595334578,
  "expire_time": 1596865564000,
  "bind_host": [ {
    "id": "978b411657624c2db069cd5484195d1c",
    "hostname": "www.demo.com",
    "waf_type": "cloud"
  } ]
}
```


Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10.4 Modifying a Certificate

Function

This API is used to modify a certificate.

URI

PUT /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-787 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-788 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-789 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-790 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.
content	No	String	Certificate file. Only certificates and private key files in PEM format are supported, and the newline characters in the file must be replaced with \n.
key	No	String	Certificate private key. Only certificates and private key files in PEM format are supported, and the newline characters in the files must be replaced with \n.

Response Parameters

Status code: 200

Table 3-791 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
expire_time	Long	Timestamp when the certificate expires
timestamp	Long	Timestamp.

Status code: 400

Table 3-792 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-793 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-794 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0
```

```
{  
  "name" : "demo"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id" : "360f992501a64de0a65c50a64d1ca7b3",  
  "name" : "demo",  
  "timestamp" : 1650593797892,  
  "expire_time" : 1596865564000  
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10.5 Deleting a Certificate

Function

This API is used to delete a certificate.

URI

DELETE /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-795 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-796 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-797 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-798 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate in PEM format
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-799 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-800 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-801 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-802 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "id" : "e1d87ba2d88d4ee4a3b0c829e935e5e0",
  "name" : "certificatename29556",
  "timestamp" : 1650594410630,
  "expire_time" : 1596865564000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.10.6 Applying a Certificate to a Domain Name

Function

This API is used to apply a certificate to a domain name.

URI

POST /v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts

Table 3-803 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-804 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-805 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-806 Request body parameters

Parameter	Mandatory	Type	Description
cloud_host_ids	No	Array of strings	ID of HTTPS domain name in cloud mode. You can obtain it by calling the ListHost API.
premium_host_ids	No	Array of strings	ID of the HTTPS domain name in dedicated mode. You can obtain it by calling the ListPremiumHost API.

Response Parameters

Status code: 200

Table 3-807 Response body parameters

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate name
timestamp	Long	Timestamp.
expire_time	Long	Expiration date
bind_host	Array of CertificateBundingHostBody objects	Domain name list

Table 3-808 CertificateBundingHostBody

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF mode (Cloud: cloud; Dedicated: premium) Enumeration values: <ul style="list-style-type: none"> • cloud • premium

Status code: 400

Table 3-809 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-810 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-811 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts?
enterprise_project_id=0

{
  "cloud_host_ids" : [ "85e554189d494c0f97789e93531c9f90" ],
  "premium_host_ids" : [ "4e9e97c425fc463c8f374b90124e8392" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "3ac1402300374a63a05be68c641e92c8",
  "name" : "www.abc.com",
  "timestamp" : 1636343349139,
  "expire_time" : 1650794100000,
  "bind_host" : [ {
    "id" : "e350cf556da34adab1f017523d1c05ed",
```

```
"hostname" : "www.demo.com",  
"waf_type" : "cloud",  
"bandwidth" : 0,  
"qps" : 0  
} ]  
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.11 Event Management

3.11.1 Querying the List of Attack Events

Function

This API is used to query the attack event list. Currently, this API does not support query of all protection events. The **pagesize** parameter cannot be set to **-1**. The larger the data volume, the larger the memory consumption. A maximum of 10,000 data records can be queried. For example, if the number of data records in a user-defined period exceeds 10,000, the data whose page is 101 (or **pagesize** is greater than 100) cannot be queried. You need to adjust the time range to a longer period and then query the data.

URI

GET /v1/{project_id}/waf/event

Table 3-812 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-813 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
recent	No	String	Time range for querying logs. This parameter cannot be used together with from or to at the same time. Parameter recent must be used with either from or to . Enumeration values: <ul style="list-style-type: none"> • yesterday • today • 3days • 1week • 1month
from	No	Long	Start time (13-digit timestamp). This parameter must be used together with to , but cannot be used together with recent .
to	No	Long	End time (13-digit timestamp). This parameter must be used together with from but cannot be used together with recent .

Parameter	Mandatory	Type	Description
attacks	No	Array	<p>Attack type</p> <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attacks • lfi: local file inclusion • cmdi: command injection attacks • xss: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attack hit the precision protection rule • cc: CC attacks • webshell: website Trojan • custom_whiteblackip: attacks that hit the blocklist and trustlist rule • custom_geoip: attacks that hit the geolocation access control rule • antitamper: attacks that hit the web tamper prevention rule • anticrawler: attacks that hit the anti-crawler rules • leakage: attacks that hit the information leakage prevention rule • illegal: illegal requests
hosts	No	Array	Domain name ID. It can be obtained by calling the **ListHost API.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-814 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-815 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ListEventItems objects	Details about an attack event

Table 3-816 ListEventItems

Parameter	Type	Description
id	String	Event ID
time	Long	Count
policyid	String	Policy ID
sip	String	Source IP address, which is the IP address of the web visitor (attacker's IP address).
host	String	Attacked domain name
url	String	Attacked URL

Parameter	Type	Description
attack	String	Attack type <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attack • lfi: local file inclusion • cmdi: command injection attacks • XSS: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attacks hit a precise protection rule • webshell: Trojan • custom_blacklist: attacks hit a blacklist or whitelist rule • custom_geoiip: attacks hit a geolocation access control rule • antitamper: attacks hit a web tamper prevention rule • anticrawler: attacks hit an anti-crawler rule • leakage: attacks hit an information leakage prevention rule • illegal: invalid requests
rule	String	ID of the matched rule
payload	String	Hit payload
payload_location	String	Hit Load Position
action	String	Protective action
request_line	String	Request method and path
headers	Object	HTTP request header
cookie	String	Request cookie
status	String	Response code status
process_time	Integer	Processing time
region	String	Geographical location
host_id	String	Domain name ID
response_time	Long	Time to response
response_size	Integer	Response body size

Parameter	Type	Description
response_body	String	Response body
request_body	String	Request body

Status code: 400

Table 3-817 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-818 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-819 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/event?
enterprise_project_id=0&page=1&pagesize=10&recent=today
```

Example Responses

Status code: 200

ok

```
{
  "total": 1,
```



```

"items" : [ {
  "id" : "04-0000-0000-0000-21120220421152601-2f7a5ceb",
  "time" : 1650525961000,
  "policyid" : "25f1d179896e4e3d87ceac0598f48d00",
  "host" : "x.x.x.x:xxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "url" : "/osclass/oc-admin/index.php",
  "attack" : "lfi",
  "rule" : "040002",
  "payload" : " file=../../../../../../../../etc/passwd",
  "payload_location" : "params",
  "sip" : "x.x.x.x",
  "action" : "block",
  "request_line" : "GET /osclass/oc-admin/index.php?
page=appearance&action=render&file=../../../../../../../../etc/passwd",
  "headers" : {
    "accept-language" : "en",
    "ls-id" : "xxxx-xxxx-xxxx-xxxx-9c302cb7c54a",
    "host" : "x.x.x.x",
    "lb-id" : "2f5f15ce-08f4-4df0-9899-ec0cc1fcdc52",
    "accept-encoding" : "gzip",
    "accept" : "*/*",
    "user-agent" : "Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
35.0.2309.372 Safari/537.36"
  },
  "cookie" : "HWWAFSESID=2a1d773f9199d40a53; HWWAFSESTIME=1650525961805",
  "status" : "418",
  "host_id" : "6fbe595e7b874dbbb1505da3e8579b54",
  "response_time" : 0,
  "response_size" : 3318,
  "response_body" : "",
  "process_time" : 2,
  "request_body" : "{}"
} ]
}

```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.11.2 This API is used to query details about an event of a specified ID.

Function

Querying Details About an Event of a Specified ID

URI

GET /v1/{project_id}/waf/event/{eventid}

Table 3-820 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
eventid	Yes	String	Event ID. It can be obtained by calling the ListEvent API.

Table 3-821 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-822 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-823 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ShowEventItems objects	Details about an attack event

Table 3-824 ShowEventItems

Parameter	Type	Description
time	Long	Timestamp when the attack occurs, in milliseconds.
policyid	String	ID of the policy
sip	String	Source IP address
host	String	Domain name
url	String	Attacked URL
attack	String	Attack type
rule	String	ID of the hit rule
action	String	Protective action
cookie	String	Cookie of the attack request
headers	Object	Header of the attack request
host_id	String	ID of the attacked domain name
id	String	Event ID
payload	String	Malicious load
payload_location	String	Malicious load location
region	String	Geographical location of the source IP address
process_time	Integer	Processing time
request_line	String	Body of the attack request
response_size	Integer	Response body size (byte)
response_time	Long	Response time (ms)
status	String	Response code
request_body	String	Request body

Status code: 400

Table 3-825 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-826 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-827 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/event{event_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
  "items" : [ {
    "id" : "09-0000-0000-0000-12120220421093806-a60a6166",
    "time" : 1650505086000,
    "policyid" : "173ed802272a4b0798049d7edffeff03",
    "host" : "x.x.x.x:xxxxxx-xxx-xxx-xxxx-xxxxxxx",
    "url" : "/mobile/DBconfigReader.jsp",
    "attack" : "vuln",
    "rule" : "091004",
    "payload" : " /mobile/dbconfigreader.jsp",
    "payload_location" : "uri",
    "sip" : "x.x.x.x",
```

```
"action" : "block",
"request_line" : "GET /mobile/DBconfigReader.jsp",
"headers" : {
  "ls-id" : "c0d957e6-26a8-4f2e-8216-7fc9332a250f",
  "host" : "x.x.x.x:81",
  "lb-id" : "68d3c435-2607-45e0-a5e2-38980544dd45",
  "accept-encoding" : "gzip",
  "user-agent" : "Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 CSIRTx/2022"
},
"cookie" : "HWWAFSESID=2a0bf76a111c93926d; HWWAFSESTIME=1650505086260",
"status" : "418",
"region" : "Reserved IP",
"host_id" : "e093a352fd3a4ddd994c585e2e1dda59",
"response_time" : 0,
"response_size" : 3318,
"process_time" : 0,
"request_body" : "{}"
}]
}
```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.12 Querying the Domain Name of a Tenant

3.12.1 Querying Domain Names Protected with All WAF Instances

Function

This API is used to query the list of protection domain names.

URI

GET /v1/{project_id}/composite-waf/host

Table 3-828 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-829 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. Value range: 1 to 100 . The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name
policyname	No	String	Policy name

Parameter	Mandatory	Type	Description
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
waf_type	No	String	WAF mode of the domain name
is_https	No	Boolean	Whether HTTPS is used for the domain name

Request Parameters

Table 3-830 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-831 Response body parameters

Parameter	Type	Description
total	Integer	Number of all protected domain names
cloud_total	Integer	Number of domain names protected with cloud WAF
premium_total	Integer	Number of domain names protected with dedicated WAF instances
items	Array of CompositeHostResponse objects	Details about the protected domain name

Table 3-832 CompositeHostResponse

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	<p>Domain name access status. The value can be 0 or 1. 0: The website traffic has not been routed to WAF. 1: The website traffic has been routed to WAF.</p>
proxy	Boolean	<p>Whether a proxy is used for the protected domain name.</p> <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.

Parameter	Type	Description
timestamp	Long	Time the domain name was added to WAF.
paid_type	String	Package-based payment mode. Currently, only the prepaid mode is supported.
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
premium_waf_instances	Array of Premium_waf_instances objects	List of dedicated WAF instances
description	String	Domain name description
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. <ul style="list-style-type: none"> • true: Use a dedicated IP address. • false: Do not use a dedicated IP address.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.

Table 3-833 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
cname	String	<p>The CNAME record being used.</p> <ul style="list-style-type: none"> ● old: The old CNAME record is used. ● new: The new CNAME record is used. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● old ● new
is_dual_az	String	<p>Whether WAF support Multi-AZ DR</p> <ul style="list-style-type: none"> ● true: WAF supports multi-AZ DR. ● false: WAF does not support multi-AZ DR. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
ipv6	String	<p>Whether IPv6 protection is supported.</p> <ul style="list-style-type: none"> ● true: IPv6 protection is supported. ● false: IPv6 protection is not supported. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-834 Premium_waf_instances

Parameter	Type	Description
id	String	ID of the dedicated WAF instance
name	String	Name of the dedicated WAF instance
accessed	Boolean	Whether the domain name is added to the dedicated WAF instance. The options are true and false . <ul style="list-style-type: none"> • true: The domain name has been added to WAF. • false: The domain name has not been added to WAF.

Status code: 400

Table 3-835 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-836 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-837 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "items": [ {
    "id": "31af669f567246c289771694f2112289",
    "hostid": "31af669f567246c289771694f2112289",
    "description": "",
    "proxy": false,
    "flag": {
      "pci_3ds": "false",
      "pci_dss": "false",
      "ipv6": "false",
      "cname": "new",
      "is_dual_az": "true"
    },
    "region": "cn-north-4",
    "hostname": "www.demo.com",
    "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
    "policyid": "41cba8aee2e94bcdbf57460874205494",
    "timestamp": 1650527546454,
    "protect_status": 0,
    "access_status": 0,
    "exclusive_ip": false,
    "web_tag": "",
    "paid_type": "prePaid",
    "waf_type": "cloud"
  } ],
  "total": 1,
  "cloud_total": 1,
  "premium_total": 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.12.2 Querying a Domain Name by ID

Function

This API is used to query a protected domain name by ID.

URI

GET /v1/{project_id}/composite-waf/host/{host_id}

Table 3-838 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	Domain name ID. In the cloud mode, it can be obtained by calling the ListHost API. In the dedicated mode, it can be obtained by calling the ListPremiumHost API.

Table 3-839 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-840 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-841 Response body parameters

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	<p>Domain name access status. The value can be 0 or 1. 0: The website traffic has not been routed to WAF. 1: The website traffic has been routed to WAF.</p>
proxy	Boolean	<p>Whether a proxy is used for the protected domain name.</p> <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
timestamp	Long	Time the domain name was added to WAF.
paid_type	String	Package-based payment mode. Currently, only the prepaid mode is supported.

Parameter	Type	Description
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.
web_tag	String	Website name, which is the same as the website name in the domain name details on the WAF console.
premium_waf_instances	Array of Premium_waf_instances objects	List of dedicated WAF instances
description	String	Domain name description
exclusive_ip	Boolean	Whether to use a dedicated IP address.This parameter is reserved and can be ignored. <ul style="list-style-type: none"> ● true: Use a dedicated IP address. ● false: Do not use a dedicated IP address.
region	String	Region ID. This parameter is included when the domain name was added to WAF through the console. This parameter is left blank when the domain name was added to WAF by calling an API. You can query the region ID on the Regions and Endpoints page on the Cloud website.

Table 3-842 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> ● true ● false

Parameter	Type	Description
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
cname	String	The CNAME record being used. <ul style="list-style-type: none"> • old: The old CNAME record is used. • new: The new CNAME record is used. Enumeration values: <ul style="list-style-type: none"> • old • new
is_dual_az	String	Whether WAF support Multi-AZ DR <ul style="list-style-type: none"> • true: WAF supports multi-AZ DR. • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false
ipv6	String	Whether IPv6 protection is supported. <ul style="list-style-type: none"> • true: IPv6 protection is supported. • false: IPv6 protection is not supported. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-843 Premium_waf_instances

Parameter	Type	Description
id	String	ID of the dedicated WAF instance
name	String	Name of the dedicated WAF instance

Parameter	Type	Description
accessed	Boolean	Whether the domain name is added to the dedicated WAF instance. The options are true and false . <ul style="list-style-type: none"> • true: The domain name has been added to WAF. • false: The domain name has not been added to WAF.

Status code: 400

Table 3-844 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-845 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-846 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "31af669f567246c289771694f2112289",
  "hostid": "31af669f567246c289771694f2112289",
  "description": "",
  "proxy": false,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false",
    "ipv6": "false",
    "cname": "new",
    "is_dual_az": "true"
  },
  "region": "cn-north-4",
  "hostname": "www.demo.com",
  "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
  "policyid": "41cba8aee2e94bcd57460874205494",
  "timestamp": 1650527546454,
  "protect_status": 0,
  "access_status": 0,
  "exclusive_ip": false,
  "web_tag": "",
  "paid_type": "prePaid",
  "waf_type": "cloud"
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13 Protected Website Management in Cloud Mode

3.13.1 This API is used to query the list of domain names protected in cloud mode.

Function

This API is used to query the list of domain names protected in cloud mode.

URI

GET /v1/{project_id}/waf/instance

Table 3-847 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-848 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	The domain name whose information you want to query. This parameter is used to query information about a specified domain name. If this parameter is not specified, all domain names protected with cloud WAF are queried.
policyname	No	String	Protection policy name. This parameter is used to query domain names added to a specified protection policy. This parameter is optional.

Request Parameters

Table 3-849 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-850 Response body parameters

Parameter	Type	Description
total	Integer	Number of domain names protected with cloud WAF
items	Array of CloudWafHostItem objects	Array of details about the protected domain names protected with cloud WAF.

Table 3-851 CloudWafHostItem

Parameter	Type	Description
id	String	Domain name ID
hostid	String	Domain name ID
type	Integer	WAF deployment mode. The default value is 1 . Currently, only the reverse proxy is supported. This parameter is redundant.
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
hostname	String	Domain name added to cloud WAF.

Parameter	Type	Description
access_code	String	CNAME prefix
policyid	String	Policy ID
timestamp	Long	Time the domain name was added to WAF.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none">• -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF.• 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks.• 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. <ul style="list-style-type: none">• true: Use a dedicated IP address.• false: Do not use a dedicated IP address.
paid_type	String	Paid mode. Enumeration values: <ul style="list-style-type: none">• prePaid• postPaid
flag	Flag object	Special identifier, which is used on the console.

Table 3-852 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-853 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-854 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-855 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/instance?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "d0a4bc2f74e3407388a50243af700305",
    "hostid": "d0a4bc2f74e3407388a50243af700305",
    "type": 1,
    "proxy": false,
    "flag": {
      "pci_3ds": "false",
      "pci_dss": "false",
      "cname": "new"
    },
    "hostname": "www.demo.com",
    "access_code": "7d06456ffaexxxxxxxxxx281bc13b",
    "policyid": "bb2124fabe6f42ff9fe4770eecb2670",
    "timestamp": 1642648030687,
    "protect_status": 1,
    "access_status": 0,
    "exclusive_ip": false
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13.2 Adding a Domain Name to the Cloud WAF

Function

This API is used to add a domain name to the cloud WAF.

URI

POST /v1/{project_id}/waf/instance

Table 3-856 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-857 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-858 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-859 Request body parameters

Parameter	Mandatory	Type	Description
hostname	Yes	String	The domain name can contain a maximum of 64 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed, for example, www.domain.com.
policyid	No	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
server	Yes	Array of CloudWafServer objects	Origin server configuration of the protected domain name
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
certificatename	No	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
paid_type	No	String	Package-based payment mode. Enumeration values: <ul style="list-style-type: none"> prePaid postPaid
proxy	Yes	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
description	No	String	Domain name description

Table 3-860 CloudWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	Yes	String	IP address of your origin server requested by the client
port	Yes	Integer	Port used by WAF to forward client requests to the origin server

Response Parameters

Status code: 200

Table 3-861 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID
access_code	String	CNAME prefix

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
protocol	String	Returned client protocol type
certificateid	String	Returned certificate ID
certificatename	String	Certificate name
server	Array of CloudWafServer objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> • false: No proxy is used. • true: A proxy is used.
timestamp	Long	Time the domain name was added to WAF.
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. <ul style="list-style-type: none"> • true: Use a dedicated IP address. • false: Do not use a dedicated IP address.
block_page	BlockPage object	Alarm page configuration
flag	Flag object	Special identifier, which is used on the console.
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.

Table 3-862 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server

Table 3-863 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-864 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-865 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-866 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-867 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-868 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

POST https://{Endpoint}/v1/{project_id}/waf/instance?enterprise_project_id=0

```
{
  "hostname": "www.demo.com",
  "server": [ {
    "front_protocol": "HTTPS",
    "back_protocol": "HTTP",
    "type": "ipv4",
    "address": "x.x.x.x",
    "port": "7443"
  } ],
  "proxy": false,
  "paid_type": "prePaid",
  "certificateid": "3ac1402300374a63a05be68c641e92c8",
  "certificatename": "test6",
  "exclusive_ip": false
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "31af669f567246c289771694f2112289",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "x.x.x.x",
    "port": 80,
    "weight": 1,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650527546420,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false",
    "cname": "new"
  },
  "policyid": "41cba8aee2e94bcdbf57460874205494",
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",
  "projectid": "0456cf04d6f64725ab02ed5bd2efdfa4",
  "enterprise_project_id": "0",
  "protect_status": 1,
  "access_status": 0,
  "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
  "block_page": {
    "template": "default"
  },
  "exclusive_ip": false
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13.3 Querying Details About a Domain Name by Domain Name ID in Cloud Mode

Function

Querying Details About a Domain Name by Domain Name ID in Cloud Mode

URI

GET /v1/{project_id}/waf/instance/{instance_id}

Table 3-869 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Table 3-870 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-871 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-872 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	ID of the policy used for the domain name.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Parameter	Type	Description
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
protocol	String	Backend protocol type. The value can be HTTPS, HTTP, or HTTP&HTTPS.
server	Array of CloudWafServer objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
access_code	String	CNAME prefix
locked	Integer	This parameter is reserved, which will be used to freeze a domain name.
timestamp	Long	Timestamp (ms) when the protected domain name is created.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name

Parameter	Type	Description
tls	String	<p>Minimum TLS version. The value can be TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3
cipher	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default: cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH</p> <ul style="list-style-type: none"> • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
block_page	BlockPage object	Alarm page configuration
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
description	String	Website remarks

Parameter	Type	Description
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. <ul style="list-style-type: none"> ● true: Use a dedicated IP address. ● false: Do not use a dedicated IP address.

Table 3-873 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> ● HTTP ● HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> ● HTTP ● HTTPS
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server

Table 3-874 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-875 CustomPage

Parameter	Type	Description
status_code	String	Status Codes

Parameter	Type	Description
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-876 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-877 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-878 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-879 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/instance/{instance_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "31af669f567246c289771694f2112289",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "x.x.x.x",
    "port": 80,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650527546420,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false",
    "cname": "new"
  },
  "description": "",
  "policyid": "41cba8aee2e94bcdbf57460874205494",
  "domainid": "d4ecb00b031941ce9171b7bc3386883f",
  "projectid": "0456cf04d6f64725ab02ed5bd2efdfa4",
  "enterprise_project_id": "0",
  "protect_status": 0,
  "access_status": 0,
  "access_code": "1b18879b9d064f8bbcbf8abce7294cac",
  "block_page": {
    "template": "default"
  },
  "exclusive_ip": false
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13.4 Updating Configurations of Domain Names Protected with Cloud WAF

Function

This API is used to update configurations of domain names protected with cloud WAF. The new origin server information will overwrite the old origin server information. If you want to keep the old information, provide them as new data. You can provide only the updated information in the request body.

URI

PATCH /v1/{project_id}/waf/instance/{instance_id}

Table 3-880 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Table 3-881 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-882 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-883 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> • false: No proxy is used. • true: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> • This parameter is not required when the client protocol is HTTP. • This parameter is mandatory when the client protocol is HTTPS.

Parameter	Mandatory	Type	Description
certificatenam e	No	String	<p>Certificate name.</p> <ul style="list-style-type: none"> • This parameter is not required when the client protocol is HTTP. • This parameter is mandatory when the client protocol is HTTPS.
server	No	Array of CloudWafServer objects	Origin server configuration of the protected domain name
tls	No	String	<p>Minimum TLS version. The value can be TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3

Parameter	Mandatory	Type	Description
cipher	No	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default:</p> <p>cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH</p> <ul style="list-style-type: none"> • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: The cryptographic algorithms are ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
block_page	No	BlockPage object	Alarm page configuration
extend	No	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.

Table 3-884 CloudWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	Yes	String	IP address of your origin server requested by the client
port	Yes	Integer	Port used by WAF to forward client requests to the origin server

Table 3-885 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-886 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .

Parameter	Mandatory	Type	Description
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Response Parameters

Status code: 200

Table 3-887 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
protocol	String	Backend protocol type
server	Array of CloudWafServer objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
access_code	String	CNAME prefix
locked	Integer	This parameter is reserved, which will be used to freeze a domain name.
timestamp	Long	Time the domain name was added to WAF.
certificateid	String	HTTPS certificate ID.
certificatenam e	String	Certificate name
tls	String	SSL version Enumeration values: <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3

Parameter	Type	Description
cipher	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default: cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH cipher_2: ECDH+AESGCM:EDH+AESGCM cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH cipher_default: The cryptographic algorithms are ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> ● cipher_1 ● cipher_2 ● cipher_3 ● cipher_4 ● cipher_default
block_page	BlockPage object	Alarm page configuration
extend	Map<String,String>	Special identifier, which is used on the console.
flag	Flag object	Special identifier, which is used on the console.
description	String	Domain name description
exclusive_ip	Boolean	<p>Whether to use a dedicated IP address. This parameter is reserved and can be ignored.</p> <ul style="list-style-type: none"> ● true: Use a dedicated IP address. ● false: Do not use a dedicated IP address.
access_progress	Array of Access_progress objects	Access progress, which is used only for the new console (frontend).

Table 3-888 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server

Table 3-889 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-890 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Table 3-891 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-892 Access_progress

Parameter	Type	Description
step	Integer	<p>Step</p> <ul style="list-style-type: none"> ● 1: whitelisting WAF IP addresses. ● 2: testing WAF. ● modifying DNS record.
status	Integer	<p>Status. The value can be 0 or 1.</p> <ul style="list-style-type: none"> ● 0: The step has not been finished. ● 1: The step has finished.

Status code: 400

Table 3-893 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-894 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-895 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PATCH https://{Endpoint}/v1/{project_id}/waf/instance/{instance_id}?enterprise_project_id=0
{
  "server": [ {
    "address": "x.x.x.x",
    "port": "80",
    "front_protocol": "HTTP",
    "back_protocol": "HTTP"
  }, {
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "address": "x.x.x.x",
    "port": "80"
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "e91ad96e379b4bea84f8fcd3d153370",
  "hostname": "www.demo.com",
  "protocol": "HTTP",
  "server": [ {
    "address": "x.x.x.x",
    "port": 80,
    "front_protocol": "HTTP",
    "back_protocol": "HTTP"
  }, {
    "address": "1.1.1.4",
```



```
"port" : 80,
"front_protocol" : "HTTP",
"back_protocol" : "HTTP"
}],
"proxy" : false,
"locked" : 0,
"timestamp" : 1650423573577,
"flag" : {
  "pci_3ds" : "false",
  "pci_dss" : "false",
  "cname" : "new"
},
"policyid" : "f385eceedf7c4c34a4d1def19eafbe85",
"domainid" : "d4ecb00b031941ce9171b7bc3386883f",
"projectid" : "0456cf04d6f64725ab02ed5bd2efdfa4",
"enterprise_project_id" : "0",
"protect_status" : 1,
"access_status" : 0,
"access_code" : "4f5372610cdc44f7970759fccca138c81",
"block_page" : {
  "template" : "default"
},
"exclusive_ip" : false
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13.5 Deleting a Domain Name from the Cloud WAF

Function

This API is used to delete a domain name from the cloud WAF.

URI

DELETE /v1/{project_id}/waf/instance/{instance_id}

Table 3-896 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Table 3-897 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-898 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-899 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostid	String	Domain name ID
description	String	Description.
type	Integer	WAF deployment mode. The default value is 1. Currently, only the reverse proxy is supported.
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
flag	Flag object	Special identifier, which is used on the console.
hostname	String	Domain name added to cloud WAF.
access_code	String	CNAME suffix
policyid	String	Policy ID
timestamp	Long	Time the domain name was added to WAF.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> ● -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. ● 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. ● 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Access status. <ul style="list-style-type: none"> ● 0: The website traffic has not been routed to WAF. (Inaccessible) ● 1: The website traffic has been routed to WAF. (Accessible)
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. <ul style="list-style-type: none"> ● true: Use a dedicated IP address. ● false: Do not use a dedicated IP address.

Parameter	Type	Description
paid_type	String	Package-based payment mode. Enumeration values: <ul style="list-style-type: none"> • prePaid • postPaid

Table 3-900 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-901 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-902 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-903 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/instance/{instance_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "e91ad96e379b4bea84f8fcda3d153370",
  "hostid": "e91ad96e379b4bea84f8fcda3d153370",
  "type": 1,
  "proxy": true,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false",
    "cname": "new"
  },
  "hostname": "www.demo.com",
  "access_code": "4f5372610cdc44f7970759fcca138c81",
  "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp": 1650423573650,
  "protect_status": 1,
  "access_status": 0,
  "exclusive_ip": false,
  "paid_type": "prePaid"
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.

Status Code	Description
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.13.6 Changing Protection Status of a Domain Name

Function

Changing the Protection Status of a Domain Name

URI

PUT /v1/{project_id}/waf/instance/{instance_id}/protect-status

Table 3-904 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	Domain name ID. This parameter is used to specify the domain name whose protection status you want to modify. You can obtain the domain name ID by calling the API (ListHost) for querying the list of domain names protected with cloud WAF.

Table 3-905 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-906 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-907 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Response Parameters

Status code: 200

Table 3-908 Response body parameters

Parameter	Type	Description
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Status code: 400

Table 3-909 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-910 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-911 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/instance/{instance_id}/protect-status?enterprise_project_id=0
{
  "protect_status" : 0
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "protect_status" : 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.14 Dedicated Instance Management

3.14.1 Querying Dedicated WAF Instances

Function

This API is used to query the list of dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/instance

Table 3-912 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-913 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number for pagination query. The default value is 1.
pagesize	No	Integer	Records that can be displayed on each page. The default value is 10.
instancename	No	String	Fuzzy query of dedicated WAF engine names

Request Parameters

Table 3-914 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-915 Response body parameters

Parameter	Type	Description
total	Integer	Number of the dedicated WAF instance
purchased	Boolean	Whether any dedicated WAF instance has been purchased
items	Array of ListInstance objects	Details about the dedicated WAF instance

Table 3-916 ListInstance

Parameter	Type	Description
id	String	IDs of the dedicated WAF instance.
instancename	String	Names of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.

Parameter	Type	Description
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the domain names protected with the dedicated WAF instance. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: the domain name is not connected with the dedicated WAF instance. ● 1: The domain name is connected with the dedicated WAF instance.
upgradable	Integer	Whether the dedicated WAF instance can be upgraded. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The instance cannot be upgraded. ● 1: The instance can be upgraded.
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB
hosts	Array of IdHostnameEntry objects	Domain name protected by the dedicated engine
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.

Table 3-917 IdHostnameEntry

Parameter	Type	Description
id	String	Domain name ID.
hostname	String	Protected Domain Name

Status code: 400

Table 3-918 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-919 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-920 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{endpoint}/v1/{project_id}/premium-waf/instance
```

Example Responses

Status code: 200

Lists of dedicated WAF instances

```
{
  "purchased" : true,
```

```

"total" : 1,
"items" : [ {
  "id" : "0619871acb764d48a112695e8f7cbb10",
  "region" : "ae-ad-1",
  "zone" : "ae-ad-1a",
  "specification" : "8vCPUs | 16GB",
  "arch" : "x86",
  "upgradable" : 0,
  "status" : 0,
  "serverId" : "477353dc-8687-4bf4-b45b-1d7fee74fa63",
  "cloudServiceType" : "hws.service.type.waf",
  "resourceType" : "hws.resource.type.waf.instance",
  "resourceSpecCode" : "waf.instance.enterprise",
  "vpc_id" : "13718074-a3f9-408d-82aa-3c41ef55e589",
  "subnet_id" : "74d1b5a6-c7eb-4e9a-8372-181212552fcc",
  "service_ip" : "192.168.10.68",
  "security_group_ids" : [ "34287bdb-7aba-471a-b041-27427f1af76a" ],
  "cpu_flavor" : "Si2.2xlarge.2",
  "run_status" : 2,
  "access_status" : 1,
  "hosts" : [ {
    "id" : "c3be17bbe3a641c7a1ded6019c377402",
    "hostname" : "demo.www.com"
  } ],
  "instance_name" : "0412elb"
} ]
}

```

Status Codes

Status Code	Description
200	Lists of dedicated WAF instances
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.14.2 Creating a Dedicated WAF Instance

Function

This API is used to create a dedicated WAF instance.

URI

POST /v1/{project_id}/premium-waf/instance

Table 3-921 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-922 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-923 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-924 Request body parameters

Parameter	Mandatory	Type	Description
chargemode	No	Integer	Billing mode. Currently, only pay-per-use (30) is supported.
region	Yes	String	Region where a dedicated engine is to be created

Parameter	Mandatory	Type	Description
available_zone	Yes	String	AZ where the dedicated engine is to be created
arch	Yes	String	CPU architecture of the dedicated WAF instance, for example, x86.
instancename	Yes	String	Prefix of dedicated WAF engine names
specification	Yes	String	Specifications of the dedicated engine version. The value can be waf.instance.enterprise or waf.instance.professional .
cpu_flavor	Yes	String	ID of the specifications of the ECS hosting the dedicated engine. You can go to the management console and confirm supported specifications.
vpc_id	Yes	String	ID of the VPC where the dedicated engine is located.
subnet_id	Yes	String	ID of the VPC subnet where the dedicated engine is located.
security_group	Yes	Array of strings	ID of the security group where the dedicated engine is located.
count	Yes	Integer	Number of dedicated WAF instance applied for

Response Parameters

Status code: 200

Table 3-925 Response body parameters

Parameter	Type	Description
instances	Array of instanceInfo objects	instances

Table 3-926 instanceInfo

Parameter	Type	Description
id	String	ID of the dedicated WAF instance
name	String	Name of the dedicated WAF instance

Status code: 400

Table 3-927 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-928 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-929 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

POST https://{endpoint}/v1/{project_id}/premium-waf/instance

```
{
  "chargemode" : 30,
  "region" : "ae-ad-1",
  "available_zone" : "ae-ad-1a",
  "arch" : "x86",
  "instancename" : "demo",
  "specification" : "waf.instance.enterprise",
  "cpu_flavor" : "c3ne.2xlarge.2",
```

```
"vpc_id" : "d7b6a5ff-6c53-4cd4-9d57-f20ee8753056",  
"subnet_id" : "e59ccd18-7e15-4588-b689-04b856f4e78b",  
"security_group" : [ "09b156a2-f0f0-41fd-9891-60e594601cfd" ],  
"count" : 1  
}
```

Example Responses

Status code: 200

Dedicated WAF instance information

```
{  
  "instances" : [ {  
    "id" : "50a6b6c9bdb643f9a8038976fc58ad02",  
    "name" : "demo-6wvl"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Dedicated WAF instance information
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.14.3 Querying Details about a Dedicated WAF Instance

Function

Querying Details about a Dedicated WAF Engine.

URI

GET /v1/{project_id}/premium-waf/instance/{instance_id}

Table 3-930 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 3-931 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-932 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-933 Response body parameters

Parameter	Type	Description
id	String	ID of the dedicated WAF instance.
instancename	String	Name of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.

Parameter	Type	Description
upgradable	Integer	Whether the dedicated engine can be upgraded (0: no; 1: yes)
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.

Status code: 400

Table 3-934 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-935 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-936 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{endpoint}/v1/{project_id}/premium-waf/instance/{instance_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "0619871acb764d48a112695e8f7cbb10",
  "region": "ae-ad-1",
  "zone": "ae-ad-1",
  "specification": "8vCPUs | 16GB",
  "arch": "x86",
  "upgradable": 0,
  "status": 0,
  "serverId": "477353dc-8687-4bf4-b45b-1d7fee74fa63",
  "cloudServiceType": "hws.service.type.waf",
  "resourceType": "hws.resource.type.waf.instance",
  "resourceSpecCode": "waf.instance.enterprise",
  "vpc_id": "13718074-a3f9-408d-82aa-3c41ef55e589",
  "subnet_id": "74d1b5a6-c7eb-4e9a-8372-181212552fcc",
  "service_ip": "192.168.10.68",
  "security_group_ids": [ "34287bdb-7aba-471a-b041-27427f1af76a" ],
  "cpu_flavor": "Si2.2xlarge.2",
  "run_status": 2,
  "access_status": 1,
  "instancename": "0412elb",
  "create_time": 1649217360674
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.14.4 Renaming a Dedicated WAF Instance

Function

Renaming a Dedicated WAF Engine.

URI

PUT /v1/{project_id}/premium-waf/instance/{instance_id}

Table 3-937 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 3-938 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-939 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-940 Request body parameters

Parameter	Mandatory	Type	Description
instancename	Yes	String	New name of the dedicated WAF engine

Response Parameters

Status code: 200

Table 3-941 Response body parameters

Parameter	Type	Description
id	String	ID of the dedicated WAF instance.
instancename	String	Name of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.

Parameter	Type	Description
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.
upgradable	Integer	Whether the dedicated engine can be upgraded (0: no; 1: yes)
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.

Status code: 400

Table 3-942 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-943 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-944 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{endpoint}/v1/{project_id}/premium-waf/instance/{instance_id}
{
  "instancename" : "0412elb"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "0619871acb764d48a112695e8f7cbb10",
  "region" : "ae-ad-1",
  "zone" : "ae-ad-1a",
  "specification" : "8vCPUs | 16GB",
  "arch" : "x86",
  "upgradable" : 0,
  "status" : 0,
  "serverId" : "477353dc-8687-4bf4-b45b-1d7fee74fa63",
  "cloudServiceType" : "hws.service.type.waf",
  "resourceType" : "hws.resource.type.waf.instance",
  "resourceSpecCode" : "waf.instance.enterprise",
}
```

```

"vpc_id" : "13718074-a3f9-408d-82aa-3c41ef55e589",
"subnet_id" : "74d1b5a6-c7eb-4e9a-8372-181212552fcc",
"service_ip" : "192.168.10.68",
"security_group_ids" : [ "34287bdb-7aba-471a-b041-27427f1af76a" ],
"cpu_flavor" : "Si2.2xlarge.2",
"run_status" : 2,
"access_status" : 1,
"instancename" : "0412elb"
}
    
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.14.5 Deleting a Dedicated WAF Instance

Function

This API is used to delete a dedicated WAF instance.

URI

DELETE /v1/{project_id}/premium-waf/instance/{instance_id}

Table 3-945 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 3-946 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-947 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-948 Response body parameters

Parameter	Type	Description
id	String	ID of the dedicated WAF instance.
instancename	String	Name of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.

Parameter	Type	Description
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.
upgradable	Integer	Whether the dedicated engine can be upgraded (0: no; 1: yes)
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB

Parameter	Type	Description
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.

Status code: 400

Table 3-949 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-950 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-951 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{endpoint}z/v1/{project_id}/premium-waf/instance/{instance_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "0619871acb764d48a112695e8f7cbb10",
  "region" : "ae-ad-1",
```

```

"zone" : "ae-ad-1a",
"specification" : "8vCPUs | 16GB",
"arch" : "x86",
"upgradable" : 0,
"status" : 0,
"serverId" : "477353dc-8687-4bf4-b45b-1d7fee74fa63",
"cloudServiceType" : "hws.service.type.waf",
"resourceType" : "hws.resource.type.waf.instance",
"resourceSpecCode" : "waf.instance.enterprise",
"vpc_id" : "13718074-a3f9-408d-82aa-3c41ef55e589",
"subnet_id" : "74d1b5a6-c7eb-4e9a-8372-181212552fcc",
"service_ip" : "192.168.10.68",
"security_group_ids" : [ "34287bdb-7aba-471a-b041-27427f1af76a" ],
"cpu_flavor" : "Si2.2xlarge.2",
"run_status" : 2,
"access_status" : 1,
"instancename" : "0412elb"
}

```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15 Managing Websites Protected by Dedicated WAF Engines

3.15.1 Querying Domain Names Protected by Dedicated WAF Engines

Function

This API is used to query the list of domain names connected to dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host

Table 3-952 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-953 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	String	Page number of the data to be returned during pagination query. Value range: 0 to 100,000 . The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	String	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name
policyname	No	String	Policy name

Parameter	Mandatory	Type	Description
protect_status	No	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Request Parameters

Table 3-954 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-955 Response body parameters

Parameter	Type	Description
total	Integer	Total number of protected domain names

Parameter	Type	Description
items	Array of SimplePremiumWafHost objects	Array of details about all protected domain names

Table 3-956 SimplePremiumWafHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
flag	Flag object	Special identifier, which is used on the console.
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
hostid	String	Domain name ID, which is the same as the value of id and is a redundant field.
vpc_ids	Array of strings	VPC ID list

Table 3-957 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-958 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-959 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-960 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "ee896796e1a84f3f85865ae0853d8974",
    "hostname": "www.demo.com",
    "flag": {
      "pci_3ds": "false",
      "pci_dss": "false"
    },
    "policyid": "df15d0eb84194950a8fdc615b6c012dc",
    "protect_status": 1,
    "access_status": 0,
    "hostid": "ee896796e1a84f3f85865ae0853d8974",
    "vpc_ids": [ "02952d5c-9324-476d-a419-9c67ccxxx" ]
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15.2 Adding a Domain Name to a Dedicated WAF Instance

Function

This API is used to connect a domain name to a dedicated WAF instance.

URI

POST /v1/{project_id}/premium-waf/host

Table 3-961 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-962 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-963 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-964 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
certificatenam e	No	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required when the client protocol is HTTP. This parameter is mandatory when the client protocol is HTTPS.
hostname	Yes	String	Protected domain name or IP address (port allowed)
proxy	Yes	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> false: No proxy is used. true: A proxy is used.
policyid	No	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
server	Yes	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
block_page	No	BlockPage object	Alarm page configuration. This parameter is optional. When a user-defined page needs to be configured, all subfields of this parameter are mandatory.
description	No	String	Remarks of the protected domain name

Table 3-965 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	No	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	Yes	String	IP address of your origin server requested by the client
port	Yes	Integer	Port used by WAF to forward client requests to the origin server
type	Yes	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6

Parameter	Mandatory	Type	Description
vpc_id	Yes	String	<p>VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID.</p> <ul style="list-style-type: none"> Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC \Subnet column. Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-966 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-967 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Response Parameters

Status code: 200

Table 3-968 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Protected domain names
protocol	String	Client protocol, which is the protocol used by a client (for example, a browser) to access your website. Enumeration values: <ul style="list-style-type: none"> • HTTPS • HTTP • HTTP&HTTPS
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether to use a proxy <ul style="list-style-type: none"> • true: A proxy is used. • false: No proxy is used.
locked	Integer	Domain name status. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: The domain name is not frozen. • 1: The domain name is frozen. This parameter is redundant in this version.
timestamp	Long	Time the domain name was added to WAF. The value is a 13-digit timestamp in ms.
tls	String	TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is available only when the client protocol is HTTPS. Enumeration values: <ul style="list-style-type: none"> • TLS v1.0 • TLS v1.1 • TLS v1.2 • TLS v1.3

Parameter	Type	Description
cipher	String	<p>Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default.</p> <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.

Parameter	Type	Description
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
block_page	BlockPage object	Alarm page configuration

Table 3-969 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS

Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-970 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-971 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-972 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Status code: 400

Table 3-973 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-974 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-975 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "server": [ {
    "front_protocol": "HTTP",
    "back_protocol": "HTTP",
    "vpc_id": "cf6dbace-b36a-4d51-ae04-52a3319ae247",
    "type": "ipv4",
    "address": "x.x.x.x",
    "port": 80
  } ],
  "proxy": false,
  "description": ""
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "51a5649e52d341a9bb802044950969dc",
  "hostname" : "www.demo.com",
  "protocol" : "HTTP",
  "server" : [ {
    "address" : "x.x.x.x",
    "port" : 80,
    "type" : "ipv4",
    "weight" : 1,
    "front_protocol" : "HTTP",
    "back_protocol" : "HTTP",
    "vpc_id" : "cf6dbace-b36a-4d51-ae04-52a3319ae247"
  } ],
  "proxy" : false,
  "locked" : 0,
  "timestamp" : 1650596007113,
  "flag" : {
    "pci_3ds" : "false",
    "pci_dss" : "false"
  },
  "description" : "",
  "policyid" : "1607df035bc847b582ce9c838c083b88",
  "domainid" : "d4ecb00b031941ce9171b7bc3386883f",
  "enterprise_project_id" : "0",
  "protect_status" : 1,
  "access_status" : 0
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15.3 Modifying a Domain Name Protected by a Dedicated WAF Instance

Function

This API is used to update configurations of domain names protected with a dedicated WAF instance. The new origin server information will overwrite the old origin server information. If you want to keep the old information, provide them as new data. You can provide only the updated information in the request body.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}

Table 3-976 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-977 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-978 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-979 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none">• false: No proxy is used.• true: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none">• This parameter is not required when the client protocol is HTTP.• This parameter is mandatory when the client protocol is HTTPS.
certificatenam e	No	String	Certificate name. <ul style="list-style-type: none">• This parameter is not required when the client protocol is HTTP.• This parameter is mandatory when the client protocol is HTTPS.
tls	No	String	TLS version. TLS v1.0 is supported by default. Enumeration values: <ul style="list-style-type: none">• TLS v1.0• TLS v1.1• TLS v1.2• TLS v1.3

Parameter	Mandatory	Type	Description
cipher	No	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default:</p> <ul style="list-style-type: none"> cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: The cryptographic algorithms are ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
locked	No	Integer	This parameter is reserved, which will be used to freeze a domain name.

Parameter	Mandatory	Type	Description
access_status	No	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
timestamp	No	Integer	Timestamp.
pool_ids	No	Array of strings	Dedicated engine group the domain name was added to. This parameter is required only in special WAF mode, such as ELB mode.
block_page	No	BlockPage object	Alarm page configuration

Table 3-980 BlockPage

Parameter	Mandatory	Type	Description
template	Yes	String	Template name
custom_page	No	CustomPage object	Custom alarm page
redirect_url	No	String	URL of the redirected page

Table 3-981 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status Codes
content_type	Yes	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	Yes	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Response Parameters

Status code: 200

Table 3-982 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol, which is the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. The value can be TLS v1.0 , TLS v1.1 , or TLS v1.2 . TLS v1.0 is used by default. Enumeration values: <ul style="list-style-type: none"> ● TLS v1.0 ● TLS v1.1 ● TLS v1.2 ● TLS v1.3

Parameter	Type	Description
cipher	String	<p>Cipher suite. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default: cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH</p> <ul style="list-style-type: none"> • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.

Parameter	Type	Description
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
block_page	BlockPage object	Alarm page configuration

Table 3-983 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS

Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-984 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> ● true ● false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> ● true ● false

Table 3-985 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-986 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Status code: 400

Table 3-987 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-988 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-989 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
{  
  "proxy": false  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id": "27995fb98a2d4928a1e453e65ee8117a",  
  "hostname": "www.demo.com",  
  "protocol": "HTTP",  
  "server": [{  
    "address": "192.168.0.209",  
    "port": 80,  
    "type": "ipv4",  
    "weight": 1,  
    "front_protocol": "HTTP",  
    "back_protocol": "HTTP",  
  }]
```

```
"vpc_id" : "cf6dbace-b36a-4d51-ae04-52a8459ae247"  
}],  
"proxy" : false,  
"locked" : 0,  
"timestamp" : 1650590814885,  
"flag" : {  
  "pci_3ds" : "false",  
  "pci_dss" : "false"  
},  
"policyid" : "9555cda636ef4ca294dfe4b14bc94c47",  
"domainid" : "d4ecb00b031941ce9171b7bc3386883f",  
"projectid" : "05e33ecd328025dd2f7fc00696201fb4",  
"enterprise_project_id" : "0",  
"protect_status" : 1,  
"access_status" : 0  
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request.
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15.4 Querying Domain Name Settings in Dedicated Mode

Function

This API is used to query settings of domain names protected with dedicated WAF instances.

URI

GET /v1/{project_id}/premium-waf/host/{host_id}

Table 3-990 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-991 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-992 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-993 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name added to the dedicated WAF instance
protocol	String	Client protocol, which is the protocol used by a client (for example, a browser) to access your website.
server	Array of PremiumWaf Server objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. <ul style="list-style-type: none"> ● false: No proxy is used. ● true: A proxy is used.
locked	Integer	This parameter is reserved, which will be used to freeze a domain name. Default: 0
timestamp	Long	Time the domain name was added to WAF.
tls	String	Minimum TLS version. You can use TLS v1.0, TLS v1.1, or TLS v1.2. TLS v1.0 is used by default. Parameter tls is required only when the client protocol is HTTPS. Enumeration values: <ul style="list-style-type: none"> ● TLS v1.0 ● TLS v1.1 ● TLS v1.2 ● TLS v1.3

Parameter	Type	Description
cipher	String	<p>Parameter cipher is required only when the client protocol is HTTPS. The value can be cipher_1, cipher_2, cipher_3, cipher_4, or cipher_default.</p> <ul style="list-style-type: none"> • cipher_1: ECDHE-ECDSA-AES256-GCM-SHA384:HIGH:!MEDIUM:!LOW:!aNULL:!eNULL:!DES:!MD5:!PSK:!RC4:!kRSA:!SRP:!3DES:!DSS:!EXP:!CAMELLIA:@STRENGTH • cipher_2: ECDH+AESGCM:EDH+AESGCM • cipher_3: ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH • cipher_4: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!EDH • cipher_default: ECDHE-RSA-AES256-SHA384:AES256-SHA256:RC4:HIGH:!MD5:!aNULL:!eNULL:!NULL:!DH:!EDH:!AESGCM. <p>Enumeration values:</p> <ul style="list-style-type: none"> • cipher_1 • cipher_2 • cipher_3 • cipher_4 • cipher_default
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of the specific policy.
domainid	String	Account ID, which is the same as the account ID on the My Credentials page. To go to this page, log in to Cloud management console, hover the cursor over your username, and click My Credentials in the displayed window.

Parameter	Type	Description
projectid	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
enterprise_project_id	String	Enterprise project ID. To obtain the ID, log in to the Cloud management console first. On the menu bar at the top of the page, choose Enterprise > Project Management . Then, click the project name and view the ID.
certificateid	String	HTTPS certificate ID.
certificatename	String	Certificate name
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
block_page	BlockPage object	Alarm page configuration

Table 3-994 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS

Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
weight	Integer	Weight of the origin server. The load balancing algorithm forwards requests to the origin server based on the weight. The default value is 1 . This field is not included by cloud WAF.
address	String	IP address of your origin server requested by the client
port	Integer	Port used by WAF to forward client requests to the origin server
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. To obtain the VPC ID, perform the following steps: Use either of the following methods to obtain the VPC ID. <ul style="list-style-type: none"> • Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. The VPC ID is in the VPC\Subnet column. • Log in to the VPC console and click the VPC name. On the page displayed, copy the ID in the VPC Information area.

Table 3-995 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI 3DS certification check. ● false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> ● true: The website passed the PCI DSS certification check. ● false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> ● true ● false

Table 3-996 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	URL of the redirected page

Table 3-997 CustomPage

Parameter	Type	Description
status_code	String	Status Codes
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	The page content based on the selected page type. For details, see the <i>Web Application Firewall (WAF) User Guide</i> .

Status code: 400

Table 3-998 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-999 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1000 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{  
  "id": "ee896796e1a84f3f85865ae0853d8974",  
  "hostname": "www.demo.com",  
  "protocol": "HTTPS",  
  "server": [ {  
    "address": "1.2.3.4",  
    "port": 443,  
    "type": "ipv4",  
    "weight": 1,  
    "front_protocol": "HTTPS",  
    "back_protocol": "HTTPS",  
    "vpc_id": "ebfc553a-386d-4746-b0c2-18ff3f0e903d"  
  } ],  
}
```

```

"proxy" : false,
"locked" : 0,
"timestamp" : 1650593801380,
"tls" : "TLS v1.0",
"cipher" : "cipher_1",
"flag" : {
  "pci_3ds" : "false",
  "pci_dss" : "false"
},
"description" : "",
"policyid" : "df15d0eb84194950a8fdc615b6c012dc",
"domainid" : "0ee78615ca08419f81f539d97c9ee353",
"projectid" : "550500b49078408682d0d4f7d923f3e1",
"protect_status" : 1,
"access_status" : 0,
"certificateid" : "360f992501a64de0a65c50a64d1ca7b3",
"certificatename" : "certificatename75315"
}

```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15.5 Deleting a Domain Name from a Dedicated WAF Instance

Function

This API is used to delete a domain name protected with a dedicated WAF instance.

URI

DELETE /v1/{project_id}/premium-waf/host/{host_id}

Table 3-1001 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-1002 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
keepPolicy	No	Boolean	Whether to retain the rule. false : The policy for the domain name will not be retained. true : The policy for the domain name will be retained. If the policy used for the domain name you want to delete is also used for other domain names, this parameter must be left blank. Default: 1

Request Parameters

Table 3-1003 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-1004 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
extend	Map<String,String>	Extended field, which is used to save some configuration information about the protected domain name.
flag	Flag object	Special identifier, which is used on the console.
policyid	String	ID of the policy initially used to the domain name. You can call the ListPolicy API to query the policy list and view the ID of a specific policy.
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
access_status	Integer	Domain name access status. The value can be 0 or 1 . 0 : The website traffic has not been routed to WAF. 1 : The website traffic has been routed to WAF.
host_id	String	Domain name ID, which is the same as the value of <i>*id</i> . This field is redundant.
vpc_ids	Array of strings	VPC ID list

Table 3-1005 Flag

Parameter	Type	Description
pci_3ds	String	<p>Whether the website passes the PCI 3DS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false
pci_dss	String	<p>Whether the website passed the PCI DSS certification check.</p> <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. <p>Enumeration values:</p> <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-1006 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1007 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1008 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "protect_status": 1,
  "access_status": 0,
  "hostid": "ee896796e1a84f3f85865ae0853d8974"
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.15.6 Modifying the Protection Status of a Domain Name in Dedicated Mode

Function

This API is used to modify the protection status of a domain name connected to a dedicated WAF instance.

URI

PUT /v1/{project_id}/premium-waf/host/{host_id}/protect-status

Table 3-1009 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 3-1010 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1011 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-1012 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Response Parameters

Status code: 200

Table 3-1013 Response body parameters

Parameter	Type	Description
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.

Status code: 400

Table 3-1014 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1015 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1016 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}/protect-status?enterprise_project_id=0
{
  "protect_status" : 1
}
```

Example Responses

Status code: 200

OK

```
{
  "protect_status" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	The token does not have the required permission.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16 Policy Management

3.16.1 Querying the Protection Policy List

Function

This API is used to query the protection policy list.

URI

GET /v1/{project_id}/waf/policy

Table 3-1017 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1018 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Policy name

Request Parameters

Table 3-1019 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1020 Response body parameters

Parameter	Type	Description
total	Integer	Total number of policies
items	Array of PolicyResponse objects	Array of protection policy information

Table 3-1021 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3

Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1022 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1023 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1024 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1025 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1026 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-1027 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "41cba8aee2e94bcd57460874205494",
    "name": "policy_2FHwFOKz",
    "level": 2,
    "action": {
      "category": "log"
    },
    },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
    "webshell": false,
    "cc": true,
    "custom": true,
    "whiteblackip": true,
    "geoup": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true,
    "antileakage": false,
    "bot_enable": true,
    "followed_action": false,
    "precise": false
  },
  "hosts": [ ],
  "extend": { },
  "timestamp": 1650527546218,
  "full_detection": false,
  "bind_host": [ ]
}
```

```
}]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16.2 Creating a Protection Policy

Function

This API is used to create a protection policy. The system configures some default configuration items when generating the policy. To modify the default configuration items, call the API for updating the protection policy.

URI

POST /v1/{project_id}/waf/policy

Table 3-1028 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1029 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1030 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1031 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Array of details of policies

Response Parameters

Status code: 200

Table 3-1032 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies

Parameter	Type	Description
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1033 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1034 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1035 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1036 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 401

Table 3-1037 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-1038 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1039 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy?enterprise_project_id=0
{
  "name": "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "38ff0cb9a10e4d5293c642bc0350fa6d",
```



```

"name" : "demo",
"level" : 2,
"action" : {
  "category" : "log"
},
"options" : {
  "webattack" : true,
  "common" : true,
  "crawler" : true,
  "crawler_engine" : false,
  "crawler_scanner" : true,
  "crawler_script" : false,
  "crawler_other" : false,
  "webshell" : false,
  "cc" : true,
  "custom" : true,
  "precise" : false,
  "whiteblackip" : true,
  "geoip" : true,
  "ignore" : true,
  "privacy" : true,
  "antitamper" : true,
  "anticrawler" : false,
  "antileakage" : false,
  "followed_action" : false,
  "bot_enable" : true
},
"hosts" : [ ],
"extend" : { },
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ ]
}

```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
403	The resource quota is insufficient.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16.3 Querying a Policy by ID

Function

This API is used to query a policy by ID.

URI

GET /v1/{project_id}/waf/policy/{policy_id}

Table 3-1040 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1041 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1042 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1043 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1044 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1045 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1046 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.

Parameter	Type	Description
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1047 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1048 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1049 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{  
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",  
  "name" : "demo",  
  "level" : 2,  
}
```

```

"action" : {
  "category" : "log"
},
"options" : {
  "webattack" : true,
  "common" : true,
  "crawler" : true,
  "crawler_engine" : false,
  "crawler_scanner" : true,
  "crawler_script" : false,
  "crawler_other" : false,
  "webshell" : false,
  "cc" : true,
  "custom" : true,
  "whiteblackip" : true,
  "geoip" : true,
  "ignore" : true,
  "privacy" : true,
  "antitamper" : true,
  "antileakage" : false,
  "bot_enable" : true
},
"hosts" : [ ],
"extend" : { },
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ ]
}

```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16.4 Updating a Protection Policy

Function

This API is used to update a policy. The request body can contain only the part to be updated.

URI

PATCH /v1/{project_id}/waf/policy/{policy_id}

Table 3-1050 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1051 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1052 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1053 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Array of details of policies

Parameter	Mandatory	Type	Description
level	No	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2 Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	No	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.

Parameter	Mandatory	Type	Description
action	No	PolicyAction object	Protective action
options	No	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	No	Array of strings	Array of domain name IDs protected by the policy.
bind_host	No	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	No	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.

Table 3-1054 PolicyAction

Parameter	Mandatory	Type	Description
category	No	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1055 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
common	No	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	No	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	No	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	No	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	No	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	No	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	No	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
cc	No	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	No	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	No	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	No	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	No	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	No	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
antileakage	No	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	No	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	No	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1056 BindHost

Parameter	Mandatory	Type	Description
id	No	String	Domain name ID
hostname	No	String	Domain name
waf_type	No	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	No	String	This parameter is required only by the dedicated mode.

Response Parameters

Status code: 200

Table 3-1057 Response body parameters

Parameter	Type	Description
id	String	Policy ID

Parameter	Type	Description
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1058 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1059 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1060 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1061 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1062 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1063 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PATCH https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
{
  "options": {
    "whiteblackip": false
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "id": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,

```

```

"crawler" : true,
"crawler_engine" : false,
"crawler_scanner" : true,
"crawler_script" : false,
"crawler_other" : false,
"webshell" : false,
"cc" : true,
"custom" : true,
"precise" : false,
"whiteblackip" : false,
"geoip" : true,
"ignore" : true,
"privacy" : true,
"antitamper" : true,
"anticrawler" : false,
"antileakage" : false,
"followed_action" : false,
"bot_enable" : true
},
"hosts" : [ "c0268b883a854adc8a2cd352193b0e13" ],
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ {
  "id" : "c0268b883a854adc8a2cd352193b0e13",
  "hostname" : "www.demo.com",
  "waf_type" : "cloud"
} ]
}

```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16.5 Deleting a Protection Policy

Function

This API is used to delete a protection policy. If the policy is in use, unbind the domain name from the policy before deleting the policy.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}

Table 3-1064 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1065 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1066 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1067 Response body parameters

Parameter	Type	Description
id	String	Policy ID

Parameter	Type	Description
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1068 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1069 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1070 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1071 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1072 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1073 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "62169e2fc4e64148b775ec01b24a1947",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
    "webshell": false,
  }
}
```

```
"cc" : true,  
"custom" : true,  
"precise" : false,  
"whiteblackip" : true,  
"geoip" : true,  
"ignore" : true,  
"privacy" : true,  
"antitamper" : true,  
"anticrawler" : false,  
"antileakage" : false,  
"followed_action" : false,  
"bot_enable" : true  
},  
"hosts" : [ ],  
"extend" : { },  
"timestamp" : 1649316510603,  
"full_detection" : false,  
"bind_host" : [ ]  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.16.6 Updating the Domain Name Protection Policy

Function

This API is used to update protection policy applied to a domain name.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}

Table 3-1074 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1075 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
hosts	Yes	String	Domain name ID. It can be obtained by calling the ListHost API.

Request Parameters

Table 3-1076 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1077 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	<p>Protection level of basic web protection</p> <ul style="list-style-type: none"> • 1: Low. At this protection level, WAF blocks only requests with obvious attack features. If a large number of false alarms have been reported, Low is recommended. • 2: Medium. This protection level meets web protection requirements in most scenarios. • 3: High. At this protection level, WAF provides the finest granular protection and can intercept attacks with complex bypass features, such as Jolokia cyber attacks, common gateway interface (CGI) vulnerability detection, and Druid SQL injection attacks. <p>Default: 2</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3
full_detection	Boolean	<p>The detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • false: Instant detection. When a request hits the blocking conditions in Precise Protection, WAF terminates checks and blocks the request immediately. • true: Full detection. If a request hits the blocking conditions in Precise Protection, WAF does not block the request immediately. Instead, it blocks the requests until other checks are finished.
action	PolicyAction object	Protective action
options	PolicyOption object	Whether a protection type is enabled in protection policy.
hosts	Array of strings	Array of domain name IDs protected by the policy.
bind_host	Array of BindHost objects	Array of domain names protected with the protection policy. Compared with the hosts field, this field contains more details.

Parameter	Type	Description
extend	Map<String,String>	Extended field, which is used to store the rule configuration of basic web protection.
timestamp	Long	Time a policy is created

Table 3-1078 PolicyAction

Parameter	Type	Description
category	String	Basic web protection action. The value can be log or block . log : WAF only logs discovered attacks. block : WAF blocks discovered attacks. Enumeration values: <ul style="list-style-type: none"> • block • log

Table 3-1079 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at true . You can ignore this parameter. Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Type	Description
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 3-1080 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.

Parameter	Type	Description
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1081 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1082 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1083 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}?
enterprise_project_id=0&hosts=c0268b883a854adc8a2cd352193b0e13
```

Example Responses

Status code: 200

OK

```
{
  "id" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
```

```

"level" : 2,
"action" : {
  "category" : "log"
},
"options" : {
  "webattack" : true,
  "common" : true,
  "crawler" : true,
  "crawler_engine" : false,
  "crawler_scanner" : true,
  "crawler_script" : false,
  "crawler_other" : false,
  "webshell" : false,
  "cc" : true,
  "custom" : true,
  "precise" : false,
  "whiteblackip" : true,
  "geoip" : true,
  "ignore" : true,
  "privacy" : true,
  "antitamper" : true,
  "anticrawler" : false,
  "antileakage" : false,
  "followed_action" : false,
  "bot_enable" : true
},
"hosts" : [ "c0268b883a854adc8a2cd352193b0e13" ],
"extend" : { },
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ {
  "id" : "c0268b883a854adc8a2cd352193b0e13",
  "hostname" : "www.demo.com"
} ]
}

```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17 Rule Management

3.17.1 Changing the Status of a Rule

Function

This API is used to change the status of a single rule, for example, disabling a Precise Protection rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status

Table 3-1084 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
ruletype	Yes	String	Policy Type Enumeration values: <ul style="list-style-type: none">• whiteblackip• geoip• privacy• antitamper• custom• ignore
rule_id	Yes	String	Rule ID. It can be obtained by calling the specific API that is used to obtain the rule list of a certain type. For example, you can call the ListWhiteblackipRule API to obtain the ID of a blacklist or whitelist rule.

Table 3-1085 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1086 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1087 Request body parameters

Parameter	Mandatory	Type	Description
status	No	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Response Parameters

Status code: 200

Table 3-1088 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time when the rule was created.
description	String	Rule Description
status	Integer	Status. The options are 0 and 1 . 0 : Disabled. 1 : Enabled.

Status code: 400

Table 3-1089 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1090 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1091 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/{ruletype}/{rule_id}/status?
enterprise_project_id=0

{
  "status" : 0
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "709bfd0d62a9410394ffa9e25eb82c36",
  "policyid" : "62fd7f8c36234a4ebedabc2ce451ed45",
  "timestamp" : 1650362797070,
  "description" : "demo",
  "status" : 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.2 Querying False Alarm Masking Rules

Function

Querying False Alarm Masking Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-1092 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1093 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-1094 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1095 Response body parameters

Parameter	Type	Description
total	Integer	The number of global protection whitelist (formerly false alarm masking) rules in the protection policy.
items	Array of IgnoreRuleBody objects	Domain names the global protection whitelist (formerly false alarm masking) rule is used for.

Table 3-1096 IgnoreRuleBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	The path for false masking alarms.
rule	String	User-defined rule ID, which is a six-digit number.

Status code: 400

Table 3-1097 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-1098 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1099 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-1100 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?
enterprise_project_id=0&page=1&pagesize=10
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "40484384970948d79fffe4e4ae1fc54d",
    "policyid": "f385eceedf7c4c34a4d1def19eafbe85",
    "timestamp": 1650512535222,
    "description": "demo",
    "status": 1,
    "rule": "091004",
    "url": "/demo"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
403	Insufficient resource quota.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.3 Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

Function

Creating a Global Protection Whitelist (Formerly False Alarm Masking) Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/ignore

Table 3-1101 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1102 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1103 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1104 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	The path for false masking alarms.
rule	Yes	String	User-defined rule ID, which is a six-digit number.
description	No	String	Description of a masking rule

Response Parameters

Status code: 200

Table 3-1105 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
url	String	The path for false masking alarms.
rule	String	User-defined rule ID, which is a six-digit number.

Status code: 400

Table 3-1106 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1107 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1108 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?enterprise_project_id=0
{
  "url" : "/test",
  "description" : "demo",
  "rule" : "091004"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "a57f20ced01e4e0d8bea8e7c49eea254",
  "policyid" : "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp" : 1650522310447,
  "description" : "demo",
  "status" : 1,
  "rule" : "091004",
  "url" : "/test"
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.4 Deleting a False Alarm Masking Rule

Function

Deleting a Formerly False Alarm Masking Rule

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}

Table 3-1109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a false alarm masking rule. You can obtain the rule ID from the id field in the response body of the ListIgnoreRule API, which is used for querying false alarm masking rules.

Table 3-1110 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1111 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1112 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp the rule was created.
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
url	String	The path for false masking alarms.
rule	String	User-defined rule ID, which is a six-digit number.

Status code: 400

Table 3-1113 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1114 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1115 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "40484384970948d79ffe4e4ae1fc54d",  
  "policyid" : "f385eceedf7c4c34a4d1def19eafbe85",  
  "timestamp" : 1650512535222,  
  "description" : "demo",  
  "status" : 1,  
  "rule" : "091004",  
  "url" : "/test"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.5 Querying the Blacklist and Whitelist Rule List

Function

This API is used to query the list of blacklist and whitelist rules.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-1116 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1117 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Name of the whitelist or blacklist rule

Request Parameters

Table 3-1118 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1119 Response body parameters

Parameter	Type	Description
total	Integer	Number of the whitelist and blacklist rules
items	Array of WhiteBlackIpResponseBody objects	Details of blacklist or whitelist rules

Table 3-1120 WhiteBlackIpResponseBody

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
timestamp	Long	Timestamp (ms) when the rule was created
description	String	Rule Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
addr	String	IP address/IP address group
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-1121 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1122 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1123 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "3c96caf769ca4f57814fcf4259ea89a1",
    "policyid": "4dddfd44fc89453e9fd9cd6bfdc39db2",
    "timestamp": 1650362891844,
    "description": "demo",
    "status": 1,
    "addr": "x.x.x.x",
    "white": 0
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.6 Creating a Blacklist/Whitelist Rule

Function

This API is used to create a blacklist or whitelist rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/whiteblackip

Table 3-1124 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1125 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1126 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1127 Request body parameters

Parameter	Mandatory	Type	Description
addr	Yes	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Response Parameters

Status code: 200

Table 3-1128 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the whitelist or blacklist rule
policyid	String	Policy ID
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
description	String	Rule Description
timestamp	Long	Time a rule is created. The value is a 13-digit timestamp in millisecond.

Status code: 400

Table 3-1129 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1130 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1131 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name" : "demo",
  "white" : 0,
  "description" : "demo",
  "addr" : "x.x.x.x"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "5d43af25404341058d5ab17b7ba78b56",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
}
```

```
"timestamp" : 1650531872900,
"description" : "demo",
"status" : 1,
"addr" : "x.x.x.x",
"white" : 0,
"size" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.7 Updating a Blacklist or Whitelist Protection Rule

Function

This API is used to update blacklist and whitelist protection rules. You can update IP addresses, IP address ranges, protective actions, and other information.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-1132 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Parameter	Mandatory	Type	Description
rule_id	Yes	String	ID of the blacklist or whitelist rule. It can be obtained by calling the ListWhiteblackipRule API.

Table 3-1133 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1134 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1135 Request body parameters

Parameter	Mandatory	Type	Description
addr	Yes	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
description	No	String	Rule description

Parameter	Mandatory	Type	Description
white	Yes	Integer	Protective action <ul style="list-style-type: none">• 0: WAF blocks requests that hit the rule.• 1: WAF allows requests that hit the rule.• 2: WAF only record requests that hit the rule.

Response Parameters

Status code: 200

Table 3-1136 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
addr	String	IP address or IP address ranges included in the whitelist or blacklist rule.
description	String	Description of the blacklist or whitelist rule
white	Integer	Protective action <ul style="list-style-type: none">• 0: WAF blocks requests that hit the rule.• 1: WAF allows requests that hit the rule.• 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-1137 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1138 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1139 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
{
  "name" : "demo",
  "white" : 0,
  "description" : "demo",
  "addr" : "1.1.1.2"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "5d43af25404341058d5ab17b7ba78b56",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650531872900,
  "description" : "demo",
  "status" : 1,
  "addr" : "1.1.1.2",
  "white" : 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.8 Deleting a Blacklist or Whitelist Rule

Function

This API is used to delete a blacklist or whitelist rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}

Table 3-1140 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of a blacklist or whitelist rule. You can obtain the rule ID by calling the ListWhiteblackipRule API.

Table 3-1141 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1142 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1143 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the whitelist or blacklist rule
timestamp	Long	Time a rule is deleted. The value must be a 13-digit timestamp in millisecond.
description	String	Description
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> 0: The rule is disabled. 1: The rule is enabled.
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 42.123.120.66 or 42.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> 0: WAF blocks requests that hit the rule. 1: WAF allows requests that hit the rule. 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-1144 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1145 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1146 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "5d43af25404341058d5ab17b7ba78b56",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650531872900,
  "description" : "demo",
  "status" : 1,
  "addr" : "1.1.1.2",
  "white" : 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.9 Querying a Data Masking Rule

Function

This API is used to query a data masking rule.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-1147 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1148 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-1149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1150 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules
items	Array of PrivacyResponseBody objects	Array of rule details

Table 3-1151 PrivacyResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-1152 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1153 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1154 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "97e4d35f375f4736a21cccfad77613eb",
    "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
    "timestamp": 1650533191385,
    "description": "demo",
    "status": 1,
    "url": "/demo",
    "category": "cookie",
    "index": "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.10 Creating a Data Masking Rule

Function

This API is used to create a data masking rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/privacy

Table 3-1155 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1156 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1157 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1158 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-1159 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-1160 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1161 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1162 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.11 Updating a Data Masking Rule

Function

This API is used to update a data masking rule.

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-1163 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-1164 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1166 Request body parameters

Parameter	Mandatory	Type	Description
url	Yes	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The asterisk (*) indicates the path prefix.
category	Yes	String	Masked field. <ul style="list-style-type: none"> • Params: The params field in requests • Cookie: Web visitors distinguished by cookie • Header: Custom HTTP header • Form: Forms Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form

Parameter	Mandatory	Type	Description
index	Yes	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs. The masked field name cannot exceed 2,048 bytes. Only digits, letters, underscores (_), and hyphens (-) are allowed.
description	No	String	(Optional) A description of the rule.

Response Parameters

Status code: 200

Table 3-1167 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms Enumeration values: <ul style="list-style-type: none"> ● params ● cookie ● header ● form

Parameter	Type	Description
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.
description	String	(Optional) A description of the rule.

Status code: 400

Table 3-1168 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1169 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1170 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0
{
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1",
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "description" : "demo",
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.12 Deleting a Data Masking Rule

Function

This API is used to delete a data masking rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}

Table 3-1171 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the data masking rule. You can obtain the rule ID by calling the ListPrivacyRule API which is used for querying the data masking rule list.

Table 3-1172 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1173 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1174 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time the rule was created. The value is a 13-digit timestamp in ms.

Parameter	Type	Description
description	String	(Optional) A description of the rule.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field. <ul style="list-style-type: none"> ● Params: The params field in requests ● Cookie: Web visitors distinguished by cookie ● Header: Custom HTTP header ● Form: Forms
index	String	Masked field name. Set the field name based on the masked field. The masked field will not be displayed in logs.

Status code: 400

Table 3-1175 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1176 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1177 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}?enterprise_project_id=0

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "97e4d35f375f4736a21cccfad77613eb",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp" : 1650533191385,
  "description" : "demo",
  "status" : 1,
  "url" : "/demo",
  "category" : "cookie",
  "index" : "demo1"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.13 Querying the List of Geolocation Access Control Rules

Function

Querying the List of Geolocation Access Control Rules

URI

GET /v1/{project_id}/waf/policy/{policy_id}/geoip

Table 3-1178 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1179 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10

Request Parameters

Table 3-1180 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 3-1181 Response body parameters

Parameter	Type	Description
total	Integer	Number of geolocation access control rules in the policy
items	Array of GeOIpItem objects	Array of geolocation access control rules

Table 3-1182 GeOIpItem

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the geolocation access control rule
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD : Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia)

Parameter	Type	Description
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-1183 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1184 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1185 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoup?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "items" : [ {
    "id" : "06f07f6c229141b9a4a78614751bb687",
    "policyid" : "2abeecefb9840e6bf05efbd80d0fcd7",
    "timestamp" : 1636340038062,
    "status" : 1,
    "geoup" : "GD",
    "white" : 1,
    "name" : "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.14 Creating a Geolocation Access Control Rule

Function

Creating a Geolocation Access Control Rule

URI

POST /v1/{project_id}/waf/policy/{policy_id}/geoup

Table 3-1186 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1187 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1188 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1189 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia)
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	No	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-1190 Response body parameters

Parameter	Type	Description
id	String	Rule ID

Parameter	Type	Description
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD : Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia)
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-1191 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1192 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1193 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip?enterprise_project_id=0
{
  "white" : 0,
  "description" : "demo",
  "name" : "demo",
  "geoip" : "SH|Afghanistan"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "SH|Afghanistan",
  "white" : 0
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.15 Updating a Geolocation Access Control Rule

Function

Updating a Geolocation Access Control Rule

URI

PUT /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-1194 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API (value of the id field in the response body).
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-1195 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1196 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1197 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the geolocation access control rule
description	No	String	description

Parameter	Mandatory	Type	Description
geoip	Yes	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia
white	Yes	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.

Response Parameters

Status code: 200

Table 3-1198 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
description	String	Description
policyid	String	Policy ID

Parameter	Type	Description
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD : Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia)
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks requests that hit the rule. • 1: WAF allows requests that hit the rule. • 2: WAF only record requests that hit the rule.

Status code: 400

Table 3-1199 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1200 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1201 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
{
  "white" : 0,
  "name" : "demo",
  "geoip" : "BJ|Afghanistan"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "description" : "demo",
  "geoip" : "BJ|Afghanistan",
  "white" : 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.16 Deleting a Geolocation Access Control Rule

Function

This API is used to delete a geolocation access control rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}

Table 3-1202 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the geolocation access control rule. You can obtain the rule ID by calling ListGeoipRule API which is used to query the list of geolocation access control rules. The rule ID is included the id field in the response body.

Table 3-1203 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1204 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1205 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rule
policyid	String	Policy ID
geoip	String	Locations that can be configured in the geolocation access control rule: (CN : China, South Africa : South Africa, Mexico : Mexico, Peru : Peru, Indonesia : Indonesia, GD : Guangdong, FJ : Fujian, JL : Jilin, LN : Liaoning, TW : Taiwan (China), GZ : Guizhou, AH : Anhui, HL : Heilongjiang, HA : Henan, SC : Sichuan, HE : Hebei, YN : Yunnan, HB : Hubei, HI : Hainan, QH : Qinghai, HN : Hunan, JX : Jiangxi, SX : Shanxi, SN : Shaanxi, ZJ : Zhejiang, GS : Gansu, JS : Jiangsu, SD : Shandong, BJ : Beijing, SH : Shanghai, TJ : Tianjin, CQ : Chongqing, MO : Macao (China), HK : Hong Kong (China), NX : Ningxia, GX : Guangxi, XJ : Xinjiang, XZ : Tibet, NM : Inner Mongolia)
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks requests that hit the rule. ● 1: WAF allows requests that hit the rule. ● 2: WAF only record requests that hit the rule.
status	Integer	Rule status. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
description	String	Description
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-1206 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1207 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1208 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "02dafa406c4941368a1037b020f15a53",
  "policyid" : "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name" : "demo",
  "timestamp" : 1650534513775,
  "description" : "demo",
  "status" : 1,
  "geoip" : "BJ|Afghanistan",
  "white" : 0
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.17 Querying the List of Web Tamper Protection Rules

Function

This API is used to query the list of web tamper protection rules.

URI

GET /v1/{project_id}/waf/policy/{policy_id}/antitamper

Table 3-1209 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1210 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-1211 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1212 Response body parameters

Parameter	Type	Description
total	Integer	Total number of web tamper protection rules
items	Array of AntiTamperRuleResponseBody objects	Number of web tamper protection rules.

Table 3-1213 AntiTamperRuleResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	ID of the protection policy that includes the rule
timestamp	Long	Timestamp the rule was created.
description	String	Rule remarks
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule

Status code: 400

Table 3-1214 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1215 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1216 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "id": "b77c3182957b46ed8f808a1998245cc4",
    "policyid": "bdba8e224cbd4d11915f244c991d1720",
    "timestamp": 1647499571037,
    "description": "",
    "status": 0,
    "hostname": "www.demo.com",
    "url": "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.18 Creating a Web Tamper Protection Rule

Function

This API is used to create a web tamper protection rule.

URI

POST /v1/{project_id}/waf/policy/{policy_id}/antitamper

Table 3-1217 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.

Table 3-1218 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1219 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1220 Request body parameters

Parameter	Mandatory	Type	Description
hostname	Yes	String	Protected websites. The list can be obtained by calling the ListHost API in cloud mode (the value of the hostname field in the response body).
url	Yes	String	URL protected by the web tamper protection rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. The <i>asterisk (*)</i> indicates the path prefix.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-1221 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule
description	String	Timestamp the rule was created.
status	Integer	Rule status. The value can be 0 or 1 . <ul style="list-style-type: none"> ● 0: The rule is disabled. ● 1: The rule is enabled.

Status code: 400

Table 3-1222 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error message

Status code: 401

Table 3-1223 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1224 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "url": "/test",
  "description": "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "eed1c1e9c1b04b4bad4ba1186387a5d8",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "timestamp": 1650594937397,
  "description": "demo",
  "status": 1,
  "hostname": "www.demo.com",
  "url": "/test"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.19 Deleting a Web Tamper Protection Rule

Function

This API is used to delete a web tamper protection rule.

URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}

Table 3-1225 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
policy_id	Yes	String	Policy ID. It can be obtained by calling the ListPolicy API.
rule_id	Yes	String	ID of the anti-tamper rule. It can be obtained by calling the ListAntitamperRule API.

Table 3-1226 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1227 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1228 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL protected by the web tamper protection rule
timestamp	Long	Timestamp the rule was created.

Status code: 400

Table 3-1229 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1230 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1231 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
DELETE https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}?
enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "b77c3182957b46ed8f808a1998245cc4",
    "policyid": "bdba8e224cbd4d11915f244c991d1720",
    "policyname": "demo",
    "timestamp": 1647499571037,
    "description": "",
    "status": 0,
    "hostname": "www.demo.com",
    "url": "/sdf"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.

Status Code	Description
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.20 Querying the Reference Table List

Function

This API is used to query the reference table list.

URI

GET /v1/{project_id}/waf/valuelist

Table 3-1232 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1233 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.

Parameter	Mandatory	Type	Description
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results.
name	No	String	Reference table name

Request Parameters

Table 3-1234 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1235 Response body parameters

Parameter	Type	Description
total	Integer	Number of reference tables Minimum: 0 Maximum: 500
items	Array of ValueListResponseBody objects	Reference table list Array Length: 0 - 10

Table 3-1236 ValueListResponseBody

Parameter	Type	Description
id	String	ID of the reference table

Parameter	Type	Description
name	String	Reference table name.
type	String	Reference table type Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table
description	String	Reference table description

Status code: 400

Table 3-1237 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1238 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1239 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "total": 1,
  "items": [ {
    "id": "3b03be27a40b45d3b21fe28a351e2021",
    "name": "ip_list848",
    "type": "ip",
    "values": [ "100.100.100.125" ],
    "timestamp": 1650421866870,
    "description": "demo"
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.21 Creating a Reference Table

Function

This API is used to add a reference table. A reference table can be used by CC attack protection rules and precise protection rules.

URI

POST /v1/{project_id}/waf/valuelist

Table 3-1240 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1241 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1242 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1243 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed. Minimum: 2 Maximum: 64
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header
values	Yes	Array of strings	Value of the reference table
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: 200

Table 3-1244 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.

Parameter	Type	Description
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table timestamp
values	Array of strings	Value of the reference table

Status code: 400

Table 3-1245 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1246 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1247 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/valuelist?enterprise_project_id=0
{
  "name" : "demo",
  "type" : "url",
  "values" : [ "/124" ],
```

```
"description" : "demo"  
}
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "id" : "e5d9032d8da64d169269175c3e4c2849",  
  "name" : "demo",  
  "type" : "url",  
  "values" : [ "/124" ],  
  "timestamp" : 1650524684892,  
  "description" : "demo"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.22 Modifying a Reference Table

Function

This API is used to modify a reference table.

URI

PUT /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-1248 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-1249 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1250 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1251 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Reference table name, which is a string of 2 to 32 characters. Minimum: 2 Maximum: 32
type	Yes	String	Reference table type. For details, see the enumeration list. Minimum: 2 Maximum: 32 Enumeration values: <ul style="list-style-type: none"> • url • params • ip • cookie • referer • user-agent • header
values	No	Array of strings	Value of the reference table
description	No	String	Reference table description. The value contains a maximum of 128 characters. Minimum: 0 Maximum: 128

Response Parameters

Status code: **200**

Table 3-1252 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.
type	String	Reference table type
description	String	Reference table description

Parameter	Type	Description
values	Array of strings	Value of the reference table

Status code: 400

Table 3-1253 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1254 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1255 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0
```

```
{
  "name" : "Rpmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "63b1d9edf2594743bc7c6ee98527306c",
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "values" : [ "500" ],
  "description" : "demo"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.17.23 Deleting a Reference Table

Function

This API is used to delete a reference table.

URI

DELETE /v1/{project_id}/waf/valuelist/{valuelistid}

Table 3-1256 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
valuelistid	Yes	String	Reference table ID. It can be obtained by calling the ListValueList API.

Table 3-1257 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1258 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1259 Response body parameters

Parameter	Type	Description
id	String	ID of a reference table
name	String	Reference table name.
type	String	Reference table type
timestamp	Long	Time the reference table is deleted. The value is a 13-digit timestamp in millisecond.

Status code: 400

Table 3-1260 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1261 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1262 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/valuelist/{valuelistid}?enterprise_project_id=0

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "63b1d9edf2594743bc7c6ee98527306c",
  "name" : "RPmvp0m4",
  "type" : "response_code",
  "timestamp" : 1640938602391
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.18 Certificate Management

3.18.1 Querying the List of Certificates

Function

This API is used to query the list of certificates.

URI

GET /v1/{project_id}/waf/certificate

Table 3-1263 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1264 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1

Parameter	Mandatory	Type	Description
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
name	No	String	Certificate name
host	No	Boolean	Whether to obtain the domain name for which the certificate is used. The default value is false . <ul style="list-style-type: none">• true: Obtain the certificates that have been used for domain names.• false: Obtain the certificates that have not been used for any domain name. Default: false
exp_status	No	Integer	Certificate status. The options are as follows: 0: not expired; 1: expired; 2: about to expire (The certificate will expire within one month.)

Request Parameters

Table 3-1265 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1266 Response body parameters

Parameter	Type	Description
items	Array of CertificateBody objects	Certificates
total	Integer	Total number of certificates

Table 3-1267 CertificateBody

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate name
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The value can be: 0 : The certificate is valid. 1 : The certificate has expired. 2 : The certificate will expire within one month.
timestamp	Long	Certificate upload timestamp.
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-1268 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1269 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1270 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1271 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "items" : [ {
    "id" : "dc443ca4f29c4f7e8d4adaf485be317b",
    "name" : "demo",
    "timestamp" : 1643181401751,
    "expire_time" : 1650794100000,
    "bind_host" : [ ],
    "exp_status" : 2
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.18.2 Uploading a Certificate

Function

This API is used to upload a certificate.

URI

POST /v1/{project_id}/waf/certificate

Table 3-1272 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1273 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1274 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Table 3-1275 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.
content	Yes	String	Certificate file. Only certificates and private key files in PEM format are supported, and the newline characters in the file must be replaced with \n.
key	Yes	String	Certificate private key. Only certificates and private key files in PEM format are supported, and the newline characters in the files must be replaced with \n.

Response Parameters

Status code: 200

Table 3-1276 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name

Parameter	Type	Description
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-1277 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1278 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1279 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1280 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
{
  "name": "demo",
  "content": "-----BEGIN CERTIFICATE----- \
\nMIIDyzCCARogAwIBAgIJAN5U0Z4Bh5ccMA0GCSqGSIb3DQEBCwUAMHwxCzAJBgNV
BAYTAipMRiweAYDVQQIDAIHVUFOR0RPTkcxETAPBgNVBACMCERPTkdHVUFOMQ0w
CwYDVQQKDARERUUFtFMQswCQYDVQQLEAJESzELMAKGA1UEAwwCT0QxHTAbBgkqhkiG
9w0BCQEWDk8IZC5odWF3Z3ZkY29tMB4XDTEyMTExNTA4MTk0MVoXDTIyMTExNTA4
MTk0MVoVowfDELMAGGA1UEBhMCWkxgEjAQBgNVBAGMCUdVQU5HRE9ORzERMA8GA1UE
BwwIRE9OR0dVQU4xDALBgNVBAoMBERFS0UxXzAJBgNVBAsMAkRMLMwCQYDVQQDD
DAJPRDEdMBsGCSqGSIb3DQEJARYOTwhkLmh1YXdlA55jb20wggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDcoLfk62//r0RHFyweYBj97S4Nsj8Qj0RG+Y02
OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr /
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2OyBxT+ocTLRgEIB8ZbvJyPNseg
feLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+sWJMniA2yljSBQ0DEAOSusXo FQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kywq+9pYi8L+mKeRL+lCMMbXC/3k6OfMB
tVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJZTPH6lYtAgMBAAGjUDBOMB0G
A1UdDgQWBQBQprUUFxw+gIkpzXdrYlsWjfSahWjAMBgNVHRMERTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQA2
603KozsQoIkELvqDJlCAxwWRFNw8SvlaSJAulhHgneMt9bQgIL+3PJWA/iMniOhU o/
kVwkiUlcw4t7RwP0hVms0OZw59MuqKd3oCSWkYO4vEHs3t40JDWnGDnmQ4sol
RkOWJwL4w8tnPe3qY9JSupjsu6Y1hVktEfN2vEKFnsuMhidkUpUAJWodHhWBQH
wglDo4/6yTnWZNGK8JDal86Dm5IchXea1EoYBjsHxiJb7HeWQlkre+MCYi1RHOin 4mlXTr0oT4/jWlglkSz6/
ZhGRq+7W7tl7cvzCe+4XsVZlenAcYoNd/WLfo91PD4 yAsRrXoJw1so1Bj0BkdZ\ \
-----END CERTIFICATE-----",
  "key": "-----BEGIN PRIVATE KEY----- \
\nMIIEvwwIBADANBgkqhkiG9w0BAQEFAASCBKkwggSIAgEAAoIBAQDcoLfk62//r0RH FyweYBj97S4Nsj8Qj0RG
+Y02OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKbaBCosn 1PcN2Pj2vPJD6NEk4I6VdOWr/
kFYMI0cimhSfW4wt6VakniOKIYGrCxxvQe1X2Oy BxT
+ocTLRgEIB8ZbvJyPNsegfeLEUuPYRpQ5kXLgJH2/3NwZFOgBHvV/b07l4fR+ sWJMniA2yljSBQ0DEAOSusXoFQ/
WRbBRH7DrQmxGiXsq4VELER9Nnc/Kywq+9pYi 8L+mKeRL+lCMMbXC/
3k6OfMBtVTiwcms1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJ ZTPH6lYtAgMBAECCgEBAL+xZxm/QoqXT
+2stoqV2GEYaMFASpRqxlzCjMmEE/9 jZa+cBWIjHhVPSjRqYfBDcHHebu0JwlrjclAvgnlvnO5XgXm1A9Q
+WbscokmcX1 xCvpHgc+MDVn+uWdCd4KW5kEk4EnSsFN5iNSf+1VxNURN+gwSSp/0E+muwA5IISO G6HQ
+p6qs52JAitX5t/7ruKoHYXjXbnf7TUs7768qrh++KPKpPlq044qoYlCGO1n 4urPBHuNly04GgGw
+vkaqjQvZrNLVOMMaFWBxsDWBehgSSBQTj+f3NCxneGYtt8 3SCTZQI5nlkb+r/
M455EwKTSXuEsNHolwx7L6GEPbQECgYEA8lxgK2fykloCoh
TFJaRAvvyjKa2+Aza4qT9SGY9Y30VPClPjBB1vUu5M9KrFufzlv06nGEcHmpEwOe
8vbRu7nLAQTGYFi8VK63q8w6FIldAyCG6Sx+BWCfWxZxSLAJTfklwi8HsOSlqh
6QNv0xbE2fLjXkF8MHvtrufip40CgYEA6sy87eDrkVgtq4ythAik3i1C5Z3v0fVx mTBlG5Z221OyocNq3Tf/
b1Zwolc1ik6cyBzY6z1blrbSzArCqm0sb2iD+kjL81O0 /qqdXjBxZUKiVAMNNp7xjGZHHFKWUxT2+UX/
```

```
tlyx4tT4dZrFlkdDXkcMmqfsRxd 1NEVaAaT8SECgYAoU7BPtPlun43YTpFUfr3pSIN6oZeKoxSbw9i4MNC
+4fSDRPC+ 80ImcmZRL7taF+Y7p0jxAOTuIkDJC8NbAiv5J9WzrwQ+5MF2BPB/2bYnRa6tNofH kZDy/
9bXySl6qw2p5Ety8wVcgZTMvFMGiG/32lpZ65FYWEU8L5qSRwfFhQKBgQC9 ihjZTj/bTHtRiHZppzCvyYm/Igd
+Uwtsy0uXR1n0G1SQENgrTBD/J6AzdfJae6tE P0U8YIM5Oqxf2i/as9ay+IPRecMl4eSxz7jJWAGx6Yx/3AZ
+hAB1ZbNbqniCLYNk d0MvjwmA25ATO+ro4OZ7AdEpQbk3l9aG/WFyYBz9AQKBgQCucFPA1l5esL8196V
WMr2Qo0tqzl7CGSoWQk2Sa2HZtZdfofXAaaqo+zvJ6RPHtJh0jgJtx536Dvv3egI
37YrdQyJbCPZXQ3SPgqWCorUnXBwq/nxS06uwu6JBxUFc57ijmMU4fWYNrvkkmWb 7keAg/
r5Uy1joMAvBN1l6lB8pg==\n -----END PRIVATE KEY-----"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "64af92e2087d49cbabc233e9bdc761b7",
  "name" : "testly",
  "timestamp" : 1658994431596,
  "expire_time" : 1682394560000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.18.3 Querying a Certificate

Function

This API is used to query a certificate.

URI

GET /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-1281 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-1282 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1283 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1284 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp.
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-1285 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1286 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1287 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1288 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id": "6e2be127b79f4a418414952ad5d8c59f",
  "name": "certificatename94319",
  "content": "-----BEGIN CERTIFICATE-----\nMIIB
+TCCAaOgAwIUAglUJP9I8OupQ77w0bGL2yWOQXreM4kwDQYJKoZIhvcNAQELBQAwwUTELMAkGA1UEBhMC
QVUxEzARBgNVBAgMClNvbWUtU3RhdGUxLzANBgNVBAoMBkx1YXdlTcEcmBoGA1UEAwwTd2FmLmh1YXdl
aWNsb3VkLmNvbTAeFw0yMDA3MDkwNTQ2MDRaFw0yMDA4MDgwNTQ2MDRaMFExCzAJBgNVBAYTAkFV
MRMwEQYDVQQLIDApTb21lLVN0YXRIMQ8wDQYDVQQKDAZlWF3ZWxkHDAaBgNVBAMME3dhZi5odWF3Z
WljG91ZC5jb20wXDANBgkqhkiG9w0BAQEFAANLADBIACEA0UEBmZvbG9JTKrKcDUw9xjFqxM7BaQFM3SLs
Qlmd5hkzygyL1ra
+cWajPjITCz9Ph6qldna2+OrluTdvCcpjwIDAQABo1MwUTAdBgNVHQ4EFgQUE7ZQNcgl3lmryx1s5gy9mnC1rs
YwHwYDVR0jBBgwFoAUE7ZQNcgl3lmryx1s5gy9mnC1rsYwDwYDVR0TAQH/BAUwAwEB/
zANBgkqhkiG9w0BAQsFAANBAM5wGi88jYWLgOnGbae5hH3I9IMBKxGqv17Cbm1tjWuUogVINz86lqvCpuhzL
D/vzJAqPluDwqM8uvzjgRfZs8=\n-----END CERTIFICATE-----",
  "key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIBOQIBAAJBANFBGzM274DiUyqynA1MPcYxasTOwWkBTN0i7EJZg+YZM8oMi9a2vnFmozyZUwsc/
T4eqpXZ2tvjqyLk3bwnKY8CAwEAAQJBAI7LMPaH/HQk/b/bVmY0qsr
+me9nb9BqFLuqwzKbx0hSmWPOWfsd3rOFISopyHqgYtAsPfvPumEdGbdnCyU8zAECIQD71768K1ejb
+ei2lqZqHaczqdUNQxMh54yot9F2yVWjwIhANS1Y1Jv89WEU/ZvMS9a4638Msv2c4Gp08RtXNYn0BAiA0H4b
+cwoEbZjHf+HYg6Fo+uxu5TvSaw8287a6Qo0LyQifVZSIYwPlT6oiX5rdLzBiap4N0gJWdsa2ihmV59LAQIgK8N
+j1daq63b0bJ9k4HruhQtpgxI6U9nFBemH4zTRYM=\n-----END RSA PRIVATE KEY-----",
  "timestamp": 1650595334578,
  "expire_time": 1596865564000,
  "bind_host": [ {
    "id": "978b411657624c2db069cd5484195d1c",
    "hostname": "www.demo.com",
    "waf_type": "cloud"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.18.4 Deleting a Certificate

Function

This API is used to delete a certificate.

URI

DELETE /v1/{project_id}/waf/certificate/{certificate_id}

Table 3-1289 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 3-1290 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1291 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1292 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, PEM encoding
key	String	Private key of the certificate in PEM format
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options can be: 0 : The certificate has not expired. 1 : The certificate expired. 2 : The certificate is about to expire.
timestamp	Long	Certificate upload timestamp
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 3-1293 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	Deployment mode of WAF instance that is used for the domain name. The value can be cloud for cloud WAF or premium for dedicated WAF instances.
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-1294 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1295 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1296 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

DELETE https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}?enterprise_project_id=0

Example Responses

Status code: 200

OK

```
{
  "id" : "e1d87ba2d88d4ee4a3b0c829e935e5e0",
  "name" : "certificatename29556",
  "timestamp" : 1650594410630,
  "expire_time" : 1596865564000
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.19 Dashboard

3.19.1 Querying Statistics of Requests and Attacks

Function

Querying Statistics of Requests and Attacks Note that APIs related to the dashboard cannot be used to query data for custom time. Only data displayed on the console for yesterday, today, past 3 days, past 7 days, and past 30 days can be queried.

URI

GET /v1/{project_id}/waf/overviews/statistics

Table 3-1297 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1298 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
from	Yes	Long	Start time (13-digit timestamp). This parameter must be used together with to .
to	Yes	Long	End time (13-digit timestamp). This parameter must be used together with from .
hosts	No	String	Domain name IDs. In the cloud mode, domain name IDs can be obtained by calling the ListHost API. In the dedicated mode, domain name IDs can be obtained by calling the ListPremiumHost API. By default, this parameter is not specified, and the number of requests and attacks of all protected domain names in the project is queried.
instances	No	String	Instance IDs you want to query. This parameter is required only for dedicated WAF instances and load-balancing instances (ELB mode).

Request Parameters

Table 3-1299 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1300 Response body parameters

Parameter	Type	Description
[items]	Array of CountItem objects	Statistics about requests and attacks on the WAF console

Table 3-1301 CountItem

Parameter	Type	Description
key	String	Type. The options are ACCESS for total requests, CRAWLER for bot mitigation, ATTACK for total attacks, WEB_ATTACK for basic web protection, PRECISE for precise protection, and CC for CC attack protection.
num	Integer	Quantity.

Status code: 400

Table 3-1302 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1303 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-1304 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1305 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/statistics?  
enterprise_project_id=0&from=1650470400196&to=1650522936196
```

Example Responses

Status code: 200

Request succeeded.

```
[ {  
  "key" : "ACCESS",  
  "num" : 1190  
}, {  
  "key" : "PRECISE",  
  "num" : 0  
}, {  
  "key" : "CRAWLER",  
  "num" : 10  
}, {  
  "key" : "WEB_ATTACK",  
  "num" : 22  
}
```



```
}, {  
  "key": "CC",  
  "num": 0  
}, {  
  "key": "ATTACK",  
  "num": 32  
}]
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	The token does not have required permissions.
403	The resource quota is insufficient.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.19.2 Querying the QPS Statistics

Function

This API is used to query the website QPS. Note that APIs related to the dashboard cannot be used to query data for custom time. Only data displayed on the console for yesterday, today, past 3 days, past 7 days, and past 30 days can be queried.

URI

GET /v1/{project_id}/waf/overviews/qps/timeline

Table 3-1306 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1307 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by calling the ListEnterpriseProject API of EPS.
from	Yes	Long	Start time (13-digit timestamp in millisecond). This parameter must be used together with to .
to	Yes	Long	End time (13-digit timestamp in millisecond). This parameter must be used together with from .
hosts	No	String	Domain name IDs. In the cloud mode, domain name IDs can be obtained by calling the ListHost API. In the dedicated mode, domain name IDs can be obtained by calling the ListPremiumHost API. By default, this parameter is not specified, and the QPS data of every protected domain name in the project is queried.
instances	No	String	Instance IDs you want to query. This parameter is required only for dedicated WAF instances and load-balancing instances (ELB mode).
group_by	No	String	Display dimension. For example, the value is DAY if data is displayed by the day.

Request Parameters

Table 3-1308 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 3-1309 Response body parameters

Parameter	Type	Description
[items]	Array of StatisticsTimelineItem objects	QPS statistics over time on the dashboard

Table 3-1310 StatisticsTimelineItem

Parameter	Type	Description
key	String	Key value. The options are ACCESS for total requests, CRAWLER for bot mitigation, ATTACK for total attacks, WEB_ATTACK for basic web protection, PRECISE for precise protection, and CC for CC attack protection.
timeline	Array of TimeLineItem objects	Statistics data over time for the corresponding key value

Table 3-1311 TimeLineItem

Parameter	Type	Description
time	Long	Time point
num	Integer	Statistics for the time range from the previous time point to the point specified by the time field.

Status code: 400

Table 3-1312 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1313 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1314 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/qps/timeline?
enterprise_project_id=0&from=1650470400196&to=1650522936196
```

Example Responses

Status code: 200

ok

```
[ {
  "key": "ACCESS",
  "timeline": [ {
    "time": 1650470400000,
    "num": 0
  } ]
}, {
  "key": "PRECISE",
  "timeline": [ {
    "time": 1650470400000,
    "num": 0
  } ]
}, {
  "key": "CRAWLER",
  "timeline": [ {
```

```
"time" : 1650470400000,  
  "num" : 0  
}]  
, {  
  "key" : "CC",  
  "timeline" : [ {  
    "time" : 1650470400000,  
    "num" : 0  
  } ]  
}, {  
  "key" : "ATTACK",  
  "timeline" : [ {  
    "time" : 1650470400000,  
    "num" : 0  
  } ]  
}, {  
  "key" : "WEB_ATTACK",  
  "timeline" : [ {  
    "time" : 1650470400000,  
    "num" : 0  
  } ]  
}]
```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.19.3 Querying Bandwidth Usage Statistics

Function

This API is used to query average bandwidth usage (in bit/s) for a specific time range. Note that APIs related to the dashboard cannot be used to query data for a custom time range. Only data displayed on the console for yesterday, today, past 3 days, past 7 days, and past 30 days can be queried.

URI

GET /v1/{project_id}/waf/overviews/bandwidth/timeline

Table 3-1315 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1316 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
from	Yes	Long	Start time (13-digit timestamp in millisecond) of the time range for which you want to query the average bandwidth usage. This parameter must be used together with to .
to	Yes	Long	End time (13-digit timestamp in millisecond) of the time range for which you want to query the average bandwidth usage. This parameter must be used together with from .
hosts	No	String	IDs of the domain names for which you want to query the bandwidth usage for a time range that is specified by from and to . In the cloud mode, domain name IDs can be obtained by calling the ListHost API. In the dedicated mode, domain name IDs can be obtained by calling the ListPremiumHost API.

Parameter	Mandatory	Type	Description
instances	No	String	IDs of dedicated WAF instances. This parameter is used to query the average bandwidth usage of domain names protected by those dedicated WAF instances for a time range that is specified by from and to .
group_by	No	String	How data is displayed. For example, if the value is DAY , data is displayed by the day. If this parameter is not specified, the data is displayed by the minute.

Request Parameters

Table 3-1317 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1318 Response body parameters

Parameter	Type	Description
[items]	Array of BandwidthStatisticsTimeline objects	Bandwidth statistics over the time, including BANDWIDTH , IN_BANDWIDTH , and OUT_BANDWIDTH .

Table 3-1319 BandwidthStatisticsTimelineItem

Parameter	Type	Description
key	String	Key value. The options are BANDWIDTH , IN_BANDWIDTH , and OUT_BANDWIDTH .
timeline	Array of TimeLineItem objects	Statistics of the corresponding key value over time. This parameter includes the time field for the time point and the num field for statistics between the previous time point and the time point specified by the time field.

Table 3-1320 TimeLineItem

Parameter	Type	Description
time	Long	Time point
num	Integer	Statistics for the time range from the previous time point to the point specified by the time field.

Status code: 400**Table 3-1321** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401**Table 3-1322** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1323 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/bandwidth/timeline?
enterprise_project_id=0&from=1650470400196&to=1650522936196
```

Example Responses

Status code: 200

ok

```
[ {
  "key": "IN_BANDWIDTH",
  "timeline": [ {
    "time": 1650470400000,
    "num": 0
  } ]
}, {
  "key": "OUT_BANDWIDTH",
  "timeline": [ {
    "time": 1650470400000,
    "num": 0
  } ]
}, {
  "key": "BANDWIDTH",
  "timeline": [ {
    "time": 1650470400000,
    "num": 0
  } ]
} ]
```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.19.4 Querying Website Requests

Function

This API is used to query website requests. Note that APIs related to the dashboard cannot be used to query data for custom time. Only data displayed on the console for yesterday, today, past 3 days, past 7 days, and past 30 days can be queried.

URI

GET /v1/{project_id}/waf/overviews/request/timeline

Table 3-1324 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1325 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
from	Yes	Long	Start time (13-digit timestamp in millisecond). This parameter must be used together with to .
to	Yes	Long	End time (13-digit timestamp in millisecond). This parameter must be used together with from .

Parameter	Mandatory	Type	Description
hosts	No	Array	Domain name IDs. In the cloud mode, domain name IDs can be obtained by calling the ListHost API. In the dedicated mode, domain name IDs can be obtained by calling the ListPremiumHost API. By default, this parameter is not required, and the statistics data of all protected domain names in the project is queried. To query data about several specified domain names, refer to the request example.
instances	No	Array	Instance IDs you want to query. This parameter is required only for dedicated WAF instances and load-balancing instances (ELB mode).
group_by	No	String	How data is displayed. To display data by the day, set the parameter to DAY . By default, this parameter is not specified, and data is displayed by the minute.

Request Parameters

Table 3-1326 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1327 Response body parameters

Parameter	Type	Description
[items]	Array of StatisticsTimelineItem objects	Request Timeline Data for Security Statistics.

Table 3-1328 StatisticsTimelineItem

Parameter	Type	Description
key	String	Key value. The options are ACCESS for total requests, CRAWLER for bot mitigation, ATTACK for total attacks, WEB_ATTACK for basic web protection, PRECISE for precise protection, and CC for CC attack protection.
timeline	Array of TimelineItem objects	Statistics data over time for the corresponding key value

Table 3-1329 TimelineItem

Parameter	Type	Description
time	Long	Time point
num	Integer	Statistics for the time range from the previous time point to the point specified by the time field.

Status code: 400

Table 3-1330 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1331 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1332 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/request/timeline?  
enterprise_project_id=0&from=1650470400196&to=1650470450000
```

Example Responses

Status code: 200

ok

```
[ {  
  "key": "ACCESS",  
  "timeline": [ {  
    "time": 1650470400196,  
    "num": 0  
  } ]  
}, {  
  "key": "PRECISE",  
  "timeline": [ {  
    "time": 1650470400196,  
    "num": 0  
  } ]  
}, {  
  "key": "CRAWLER",  
  "timeline": [ {  
    "time": 1650470400196,  
    "num": 0  
  } ]  
}, {  
  "key": "CC",  
  "timeline": [ {  
    "time": 1650470400196,  
    "num": 0  
  } ]  
}, {  
  "key": "ATTACK",  
  "timeline": [ {  
    "time": 1650470400000,  
    "num": 0  
  } ]  
}
```

```
}, {  
  "key": "WEB_ATTACK",  
  "timeline": [{  
    "time": 1650470400196,  
    "num": 0  
  }]  
}]
```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.20 Event Management

3.20.1 Querying the List of Attack Events

Function

This API is used to query the attack event list. Currently, this API does not support query of all protection events. The **pagesize** parameter cannot be set to **-1**. The larger the data volume, the larger the memory consumption. A maximum of 10,000 data records can be queried. For example, if the number of data records in a user-defined period exceeds 10,000, the data whose page is 101 (or **pagesize** is greater than 100) cannot be queried. You need to adjust the time range to a longer period and then query the data.

URI

GET /v1/{project_id}/waf/event

Table 3-1333 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1334 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
recent	No	String	Time range for querying logs. This parameter cannot be used together with from or to at the same time. Parameter recent must be used with either from or to . Enumeration values: <ul style="list-style-type: none">• yesterday• today• 3days• 1week• 1month
from	No	Long	Start time (13-digit timestamp). This parameter must be used together with to , but cannot be used together with recent .
to	No	Long	End time (13-digit timestamp). This parameter must be used together with from but cannot be used together with recent .

Parameter	Mandatory	Type	Description
attacks	No	Array	<p>Attack type</p> <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attacks • lfi: local file inclusion • cmdi: command injection attacks • xss: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attack hit the precision protection rule • cc: CC attacks • webshell: website Trojan • custom_whiteblackip: attacks that hit the blocklist and trustlist rule • custom_geoip: attacks that hit the geolocation access control rule • antitamper: attacks that hit the web tamper prevention rule • anticrawler: attacks that hit the anti-crawler rules • leakage: attacks that hit the information leakage prevention rule • illegal: illegal requests
hosts	No	Array	Domain name ID. It can be obtained by calling the **ListHost API.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned.
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results.

Request Parameters

Table 3-1335 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1336 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ListEventItems objects	Details about an attack event

Table 3-1337 ListEventItems

Parameter	Type	Description
id	String	Event ID
time	Long	Count
policyid	String	Policy ID
sip	String	Source IP address, which is the IP address of the web visitor (attacker's IP address).
host	String	Attacked domain name
url	String	Attacked URL

Parameter	Type	Description
attack	String	Attack type <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injection attack • lfi: local file inclusion • cmdi: command injection attacks • XSS: XSS attacks • robot: malicious crawler • rfi: remote file inclusion • custom_custom: attacks hit a precise protection rule • webshell: Trojan • custom_whiteblackip: attacks hit a blacklist or whitelist rule • custom_geoip: attacks hit a geolocation access control rule • antitamper: attacks hit a web tamper prevention rule • anticrawler: attacks hit an anti-crawler rule • leakage: attacks hit an information leakage prevention rule • illegal: invalid requests
rule	String	ID of the matched rule
payload	String	Hit payload
payload_location	String	Hit Load Position
action	String	Protective action
request_line	String	Request method and path
headers	Object	HTTP request header
cookie	String	Request cookie
status	String	Response code status
process_time	Integer	Processing time
region	String	Geographical location
host_id	String	Domain name ID
response_time	Long	Time to response
response_size	Integer	Response body size

Parameter	Type	Description
response_body	String	Response body
request_body	String	Request body

Status code: 400

Table 3-1338 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1339 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1340 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/event?
enterprise_project_id=0&page=1&pagesize=10&recent=today
```

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
```

```

"items" : [ {
  "id" : "04-0000-0000-0000-21120220421152601-2f7a5ceb",
  "time" : 1650525961000,
  "policyid" : "25f1d179896e4e3d87ceac0598f48d00",
  "host" : "x.x.x.x:xxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "url" : "/osclass/oc-admin/index.php",
  "attack" : "lfi",
  "rule" : "040002",
  "payload" : " file=../../../../../../../../etc/passwd",
  "payload_location" : "params",
  "sip" : "x.x.x.x",
  "action" : "block",
  "request_line" : "GET /osclass/oc-admin/index.php?
page=appearance&action=render&file=../../../../../../../../etc/passwd",
  "headers" : {
    "accept-language" : "en",
    "ls-id" : "xxxx-xxxx-xxxx-xxxx-9c302cb7c54a",
    "host" : "x.x.x.x",
    "lb-id" : "2f5f15ce-08f4-4df0-9899-ec0cc1fcdc52",
    "accept-encoding" : "gzip",
    "accept" : "*/*",
    "user-agent" : "Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
35.0.2309.372 Safari/537.36"
  },
  "cookie" : "HWWAFSESID=2a1d773f9199d40a53; HWWAFSESTIME=1650525961805",
  "status" : "418",
  "host_id" : "6fbe595e7b874dbbb1505da3e8579b54",
  "response_time" : 0,
  "response_size" : 3318,
  "response_body" : "",
  "process_time" : 2,
  "request_body" : "{}"
} ]
}

```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.20.2 This API is used to query details about an event of a specified ID.

Function

Querying Details About an Event of a Specified ID

URI

GET /v1/{project_id}/waf/event/{eventid}

Table 3-1341 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.
eventid	Yes	String	Event ID. It can be obtained by calling the ListEvent API.

Table 3-1342 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1343 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1344 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ShowEventItems objects	Details about an attack event

Table 3-1345 ShowEventItems

Parameter	Type	Description
time	Long	Timestamp when the attack occurs, in milliseconds.
policyid	String	ID of the policy
sip	String	Source IP address
host	String	Domain name
url	String	Attacked URL
attack	String	Attack type
rule	String	ID of the hit rule
action	String	Protective action
cookie	String	Cookie of the attack request
headers	Object	Header of the attack request
host_id	String	ID of the attacked domain name
id	String	Event ID
payload	String	Malicious load
payload_location	String	Malicious load location
region	String	Geographical location of the source IP address
process_time	Integer	Processing time
request_line	String	Body of the attack request
response_size	Integer	Response body size (byte)
response_time	Long	Response time (ms)
status	String	Response code
request_body	String	Request body

Status code: 400

Table 3-1346 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1347 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1348 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/event{event_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
  "items" : [ {
    "id" : "09-0000-0000-0000-12120220421093806-a60a6166",
    "time" : 1650505086000,
    "policyid" : "173ed802272a4b0798049d7edffeff03",
    "host" : "x.x.x.x:xxxxxx-xxx-xxx-xxx-xxxxxxxxx",
    "url" : "/mobile/DBconfigReader.jsp",
    "attack" : "vuln",
    "rule" : "091004",
    "payload" : " /mobile/dbconfigreader.jsp",
    "payload_location" : "uri",
    "sip" : "x.x.x.x",
```

```
"action" : "block",
"request_line" : "GET /mobile/DBconfigReader.jsp",
"headers" : {
  "ls-id" : "c0d957e6-26a8-4f2e-8216-7fc9332a250f",
  "host" : "x.x.x.x:81",
  "lb-id" : "68d3c435-2607-45e0-a5e2-38980544dd45",
  "accept-encoding" : "gzip",
  "user-agent" : "Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 CSIRTx/2022"
},
"cookie" : "HWWAFSESID=2a0bf76a111c93926d; HWWAFSESTIME=1650505086260",
"status" : "418",
"region" : "Reserved IP",
"host_id" : "e093a352fd3a4ddd994c585e2e1dda59",
"response_time" : 0,
"response_size" : 3318,
"process_time" : 0,
"request_body" : "{}"
}]
}
```

Status Codes

Status Code	Description
200	ok
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.21 Querying the Domain Name of a Tenant

3.21.1 Querying Domain Names Protected with All WAF Instances

Function

This API is used to query the list of protection domain names.

URI

GET /v1/{project_id}/composite-waf/host

Table 3-1349 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Table 3-1350 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The default value is 1 , indicating that the data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page during pagination query. The default value is 10 , indicating that each page contains 10 results. Default: 10
hostname	No	String	Domain name

Request Parameters

Table 3-1351 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type. Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 3-1352 Response body parameters

Parameter	Type	Description
total	Integer	Number of all protected domain names
cloud_total	Integer	Number of domain names protected with cloud WAF
premium_total	Integer	Number of domain names protected with dedicated WAF instances
items	Array of CompositeHostResponse objects	Details about the protected domain name

Table 3-1353 CompositeHostResponse

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.

Table 3-1354 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-1355 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1356 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1357 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{  
  "items": [ {  
    "id": "31af669f567246c289771694f2112289",  
    "hostid": "31af669f567246c289771694f2112289",  
    "proxy": false,  
    "flag": {  
      "pci_3ds": "false",  
      "pci_dss": "false"  
    },  
    "hostname": "www.demo.com",  
    "access_code": "1b18879b9d064f8bbcbf8abce7294cac",  
    "policyid": "41cba8aee2e94bcd57460874205494",  
    "timestamp": 1650527546454,  
  }  
]
```

```
"protect_status" : 0,
  "waf_type" : "premium"
}],
"total" : 1,
"cloud_total" : 0,
"premium_total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

3.21.2 Querying a Domain Name by ID

Function

This API is used to query a protected domain name by ID.

URI

GET /v1/{project_id}/composite-waf/host/{host_id}

Table 3-1358 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To obtain it, go to Cloud management console and hover the cursor over your username. On the displayed window, choose My Credentials . Then, in the Projects area, view Project ID of the corresponding project.

Parameter	Mandatory	Type	Description
host_id	Yes	String	Domain name ID. In the cloud mode, it can be obtained by calling the ListHost API. In the dedicated mode, it can be obtained by calling the ListPremiumHost API.

Table 3-1359 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	You can obtain the ID by calling the ListEnterpriseProject API of EPS.

Request Parameters

Table 3-1360 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).
Content-Type	Yes	String	Content type. Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 3-1361 Response body parameters

Parameter	Type	Description
id	String	<ul style="list-style-type: none"> false: The exclusive IP address is not practical.
hostid	String	Domain name ID
hostname	String	Domain name added to cloud WAF.
policyid	String	Policy ID

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: The WAF protection is bypassed. Requests of the domain name are directly sent to the backend server and do not pass through WAF. • 0: The WAF protection is suspended. WAF only forwards requests destined for the domain name and does not detect attacks. • 1: The WAF protection is enabled. WAF detects attacks based on the policy you configure.
flag	Flag object	Special identifier, which is used on the console.
waf_type	String	Mode of WAF that is used to protection the domain name. The value can be cloud or premium . cloud : The cloud WAF is used to protect the domain. premium : A dedicated WAF instance is used to protect the domain name.

Table 3-1362 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI 3DS certification check. • false: The website failed the PCI 3DS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether the website passed the PCI DSS certification check. <ul style="list-style-type: none"> • true: The website passed the PCI DSS certification check. • false: The website failed the PCI DSS certification check. Enumeration values: <ul style="list-style-type: none"> • true • false

Status code: 400

Table 3-1363 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-1364 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-1365 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/composite-waf/host/{host_id}?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id" : "31af669f567246c289771694f2112289",
  "hostid" : "31af669f567246c289771694f2112289",
  "flag" : {
    "pci_3ds" : "false",
    "pci_dss" : "false"
  },
  "hostname" : "www.demo.com",
  "policyid" : "41cba8aee2e94bcdbf57460874205494",
  "protect_status" : 0,
  "waf_type" : "premium"
}
```


Status Codes

Status Code	Description
200	OK
400	Request failed.
401	The token does not have required permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

A Appendix

A.1 Status Code

- Normal

Returned Value	Description
200	The request is successfully processed.

- Abnormal

Status Code	Status	Description
400	Bad Request	The server fails to process the request.
401	Unauthorized	The requested page requires a username and a password.
403	Forbidden	Access to the requested page is denied.
404	Not Found	The server fails to find the requested page.
405	Method Not Allowed	Method specified in the request is not allowed.
406	Not Acceptable	Response generated by the server is not acceptable to the client.
407	Proxy Authentication Required	Proxy authentication is required before the request is processed.
408	Request Timeout	A timeout error occurs because the request is not processed within the specified waiting period of the server.

Status Code	Status	Description
409	Conflict	The request cannot be processed due to a conflict.
500	Internal Server Error	The request is not processed due to a server error.
501	Not Implemented	The request is not processed because the server does not support the requested function.
502	Bad Gateway	The request is not processed, and the server receives an invalid response from the upstream server.
503	Service Unavailable	The request is not processed due to a temporary system abnormality.
504	Gateway Timeout	A gateway timeout error occurs.

A.2 Error Codes

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00011001	bad.request	Bad request	Check param
400	WAF.00011002	url.param.illegal	The URL format is incorrect	Check URL format
400	WAF.00011003	request.body.illegal	Request body format error: missing parameter and illegal value in body	Check request body
400	WAF.00011004	id.illegal	Illegal ID	Check ID
400	WAF.00011005	name.illegal	Illegal name	Check name
400	WAF.00011006	host.illegal	Illegal domain name	Check domain name
400	WAF.00011007	port.illegal	Illegal port	Check port

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00011007	ip.illegal	Illegal IP	Check IP
400	WAF.00011008	protect.status.illegal	Illegal protection status	Check whether the protection state is in the range of enumeration value
400	WAF.00011009	access.status.illegal	Illegal access status	Check whether the access status is in the range of enumeration value
400	WAF.00011010	offsetOrLimit.illegal	Illegal offset or limit number	Check whether the starting line or limit number is within the range
400	WAF.00011011	pageOrPageSize.illegal	Illegal page number or number of entries per page	Check if page number or number of items per page are in range
400	WAF.00011012	standard.violated	Invalid parameter	Check the parameters
400	WAF.00011013	description.illegal	Illegal description format	Check description format
400	WAF.00011014	request.header.illegal	Request header format error: missing parameter and illegal value in header	Check header required parameters
400	WAF.00011014	website.not.register	The website has not been put on record	Filing website
400	WAF.00012001	invalid.token	Illegal token	Check whether the token is correct

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00012002	invalid.project	Inconsistency between project_id and token	Check Consistency of project_id and token
400	WAF.00012003	permission.denied	No permission	Assign WAF required permissions to account
400	WAF.00012004	account.frozen	Account freezing	Account unfreezing
400	WAF.00012005	not.subscribe	Unsubscribed	Subscribe to WAF service first
400	WAF.00012006	pdp.permission.denied	No permission	Check the PDP authority of the account
400	WAF.00012007	jwt.authentication.disabled	JWT certification off	Open JWT certification
400	WAF.00012008	jwt.authentication.invalid.token	Illegal JWT token	Check whether the account has JWT permission
400	WAF.00012009	jwt.authentication.failed	JWT authentication failed	Give the account authorization first
400	WAF.00012010	eps.all.not.support	eps.all.not.support	Open the write permission of enterprise project
400	WAF.00013001	insufficient.quota	Insufficient function quota	Purchase function quota upgrade package
400	WAF.00013002	feature.not.support	Function not supported	nothing
400	WAF.00013003	port.not.support	Port not supported	Port conversion via ELB
400	WAF.00013004	protocol.not.support	Protocol not supported	Through ELB conversion protocol
400	WAF.00013005	wildcard.domain.not.support	Pan domain name not supported	Use specific domain names

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00013006	ipv6.not.support	IPv6 is not supported	The current version does not support IPv6
400	WAF.00013007	insufficient.tenant.quota	insufficient.tenant.quota	Purchase quota upgrade package
400	WAF.00014001	resource.not.found	Resource not found	The resource has been deleted or does not exist
400	WAF.00014002	resource.already.exists	Resource already exists	Resource already exists
400	WAF.00014003	open.protection.failed	Failed to open protection	Check domain name protection status
400	WAF.00014004	access.failed	Failed to access WAF	Modify DNS resolution
400	WAF.00014005	bypass.failed	Bypasswaf failed	Check the protection status and try again
400	WAF.00014006	proxy.config.error	Agent configuration error	Reconfigure the agent correctly and try again
400	WAF.00014007	host.conflict	Domain name conflict	Check that the domain name already exists in the website configuration
400	WAF.00014008	cert.inconsistent	The same domain name, but the certificate is inconsistent	Use the same certificate
400	WAF.00014009	api.not.found	The interface does not exist	Check interface URL
400	WAF.00014010	port.protocol.mismatch	Port and protocol mismatch	Select the matching protocol and port

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00014011	host.blacklist	It is forbidden to add the protection website, and the domain name is blacklisted	
400	WAF.00014012	insufficient.tenant.quota	Insufficient tenant quota	Purchase quota upgrade package
400	WAF.00014013	exclusive.ip.config.error	Exclusive IP configuration error	Check exclusive IP configuration
400	WAF.00014014	exclusive.ip.config.error	exclusive.ip.config.error	Check exclusive IP configuration
400	WAF.00021002	url.param.illegal	The URL format is incorrect	It is recommended to modify the URL in the request body parameter to the standard URL and debug again
400	WAF.00021003	request.body.illegal	The request body parameter is incorrect	It is recommended that you verify the parameters according to the document before initiating debugging
400	WAF.00021004	id.illegal	The unique identifier ID format is incorrect	It is recommended to follow the correct instructions in the documentation to obtain the ID
400	WAF.00021005	name.illegal	The name parameter format is incorrect	Check the format of name, which can only be composed of letters, numbers, - _ And. Cannot exceed 64 characters in length

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00021006	host.illegal	The domain name format is incorrect	Domain name can only be composed of letters, numbers, -_ And. Cannot exceed 64 characters in length
400	WAF.00021007	protocol.illegal	The back-end protocol format is incorrect	The back-end protocol can only be configured as HTTP or HTTPS and must be capitalized
400	WAF.00021008	port.illegal	The source port format is incorrect	Check whether the configured port is empty and whether the target port is in the range of 0-65535
400	WAF.00021009	ip.illegal	Incorrect IP format	Check whether the IP format meets the standard format of IPv4 or IPv6
400	WAF.00021010	server.address.illegal	Server configuration exception	Check whether the server configuration is empty and whether the quantity is in the range of 1-80
400	WAF.00021012	path.illegal	The URL format in the rule configuration is incorrect	It is recommended to modify the URL in the request body parameter to the standard URL and debug again
400	WAF.00021013	cert.illegal	The HTTPS certificate has expired	It is recommended to upload the unexpired certificate again

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00021014	action.illegal	Illegal protective action	It is recommended to configure protection actions according to the enumerated values in the document
400	WAF.00021015	rule.status.illegal	Illegal rule status	It is recommended to modify the rule status according to the rule status enumeration value in the document
400	WAF.00021016	description.illegal	Description exception	It is recommended to use standard English grammar for description
400	WAF.00021017	incorrect.rule.config	Incorrect rule configuration	It is recommended to configure protection rules according to the documentation in the help center
400	WAF.00021018	incorrect.reference.table.config	Incorrect reference table configuration	It is recommended to configure the reference table according to the documentation in the help center
400	WAF.00021019	incorrect.route.config	Incorrect line configuration	It is recommended to configure the line according to the documentation in the help center

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00021020	offsetOrLimit.illegal	Paging parameter error	It is recommended to fill in pagination parameters according to the documents in the help center
400	WAF.00021021	param.exceed.limit	Parameter exceeds limit	It is recommended to view the parameter limits according to the documentation in the help center
400	WAF.00022002	resource.already.exists	Resource already exists	It is recommended to check whether the created resource already exists in the console
400	WAF.00022003	resource.is.being.used	The resource is in use	Remove the relationship between the resource and the user before deleting the resource
400	WAF.00022004	rule.conflict	Rule conflict	Check whether the target rule conflicts with the existing rule
403	WAF.00022005	insufficient.quota	Insufficient resources	It is recommended to purchase the upgrade package of corresponding resources
404	WAF.00022001	resource.not.found	Resource does not exist	It is recommended to check the resource status on the console or ask for technical support

Status Code	Error Codes	Error Message	Description	Solution
500	WAF.0001000 1	internal.error	Internal error	Contact technical support
500	WAF.0001000 2	system.busy	Internal error	Contact technical support
500	WAF.0001000 3	cname.failed	Failed to create or modify CNAME	Contact technical support
500	WAF.0001000 4	cname.failed	Failed to get OBS file download link	Contact technical support
500	WAF.0002000 1	internal.error	Service internal exception	It is recommended to try again in five minutes
500	WAF.0002000 2	system.busy	System busy	It is recommended to try again in five minutes

A.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the IAM API used to query project information based on the specified criteria.

The API used to obtain a project ID is GET `https://{Endpoint}/v3/projects`. **{Endpoint}** is the IAM endpoint and can be obtained from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

In the following example, **id** indicates the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "xxxxxxx",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ]
}
```

```
],  
"links": {  
  "next": null,  
  "previous": null,  
  "self": "https://www.example.com/v3/projects"  
}
```

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Click the username and choose **My Credential** from the drop-down list.
On the **My Credential** page, view project IDs in the project list.

B Change History

Released On	Description
2023-01-16	This issue is the second official release. Added APIs related to dedicated instance management.
2023-01-11	This issue is the first official release.