Web Application Firewall (WAF)

API Reference

Issue 01

Date 2025-08-20

HUAWEI

HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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1 Before You Start

Overview

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.

API Calling

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

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.

Basic Concepts

- Account

  An account is created upon successful registration with the cloud platform. 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 under the account and grant them permissions for routine management.

- User

  An Identity and Access Management (IAM) user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

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- 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.

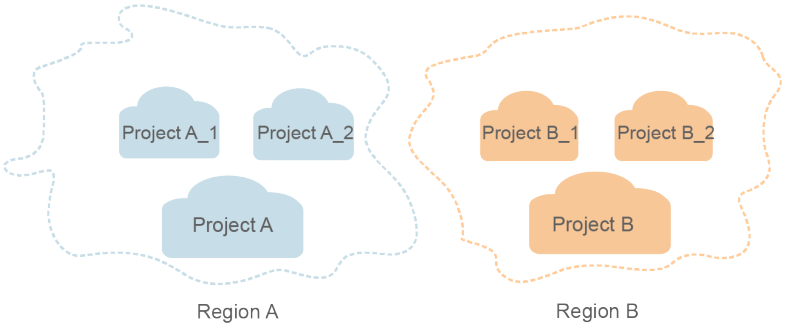
- Availability Zone (AZ)

  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

  A project corresponds to a region. Projects group and isolate resources (including compute, storage, and network resources) across physical regions. Users can be granted permissions in a default project to access all resources in the region associated with the 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 isolating model



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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**

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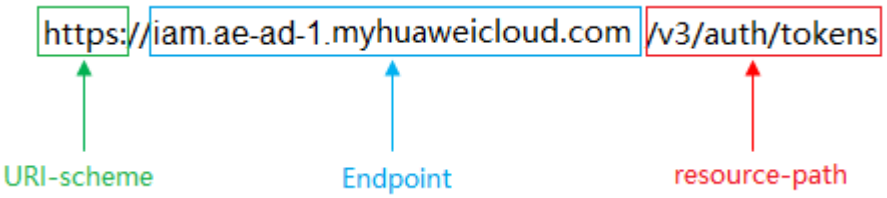
(**/v3/auth/tokens**) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
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.

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> **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 ***xxxxxxxxxxxxxxxxx*** 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": "xxxxxxxxxxxxxxxxx"
            }
        }
```

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```
    }
}
```

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 **ABCDEFG....**, add **X-Auth-Token: ABCDEFG....** to a request as follows:

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```
GET https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

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**.

Figure 2-2 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.

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

(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": "xxxxxxxx",
.....
```

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.

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3 APIs

3.1 Protected Website Management in Cloud Mode

3.1.1 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 3-1 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.

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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	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 3-3 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**

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Response Parameters

Status code: 200

Table 3-4 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 3-5 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. • **false**: No proxy is used. • **true**: A proxy is used.
hostname	String	Domain name added to cloud WAF.
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. • **-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.

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Parameter	Type	Description
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. • **true**: Use a dedicated IP address. • **false**: Do not use a dedicated IP address.
paid_type	String	Paid mode. Enumeration values: • **prePaid** • **postPaid**
flag	**Flag** object	Special identifier, which is used on the console.

Table 3-6 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

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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}/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" : "bb2124fabe6f42ff9fe4770eeccb2670",
    "timestamp" : 1642648030687,
```

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```
    "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**.

3.1.2 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 3-10 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.

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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
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 3-13 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

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Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID. It can be obtained by calling the **ListCertificates** API. • 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. • 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: • **prePaid** • **postPaid**
proxy	Yes	Boolean	Whether a proxy is used for the protected domain name. • **false**: No proxy is used. • **true**: A proxy is used.
description	No	String	Domain name description

Table 3-14 CloudWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**

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Parameter	Mandatory	Type	Description
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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 3-15 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
protect_status	Integer	WAF status of the protected domain name. • **-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

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Parameter	Type	Description
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. • **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. • **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 3-16 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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

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Table 3-17 BlockPage

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

Table 3-18 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 *Web Application Firewall (WAF) User Guide*.

Table 3-19 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**

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Parameter	Type	Description
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

Table 3-20 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-21 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-22 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
```

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```
{
  "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.

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Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

3.1.3 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 3-23 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 3-24 Query Parameters

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

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Request Parameters

Table 3-25 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 3-26 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.
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.

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Parameter	Type	Description
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. • **false**: No proxy is used. • **true**: A proxy is used.
protect_status	Integer	WAF status of the protected domain name. • **-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
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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Type	Description
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 • **cipher_2**: EECDH+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: • **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
exclusive_ip	Boolean	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. • **true**: Use a dedicated IP address. • **false**: Do not use a dedicated IP address.

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Table 3-27 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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 3-28 BlockPage

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

Table 3-29 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 *Web Application Firewall (WAF) User Guide*.

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Table 3-30 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

Table 3-31 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-32 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-33 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.

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Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

3.1.4 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 3-34 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 3-35 Query Parameters

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

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Request Parameters

Table 3-36 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 3-37 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. • **false**: No proxy is used. • **true**: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the **ListCertificates** API. • 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. • 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

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Parameter	Mandatory	Type	Description
tls	No	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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Mandatory	Type	Description
cipher	No	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 • **cipher_2**: EECDH+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. Enumeration values: • **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.

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Table 3-38 CloudWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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 3-39 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 3-40 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**.

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Parameter	Mandatory	Type	Description
content	Yes	String	The page content based on the selected page type. For details, see the *Web Application Firewall (WAF) User Guide*.

Response Parameters

Status code: 200

Table 3-41 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. • **false**: No proxy is used. • **true**: A proxy is used.

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Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. • **-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.
certificatename	String	Certificate name
tls	String	SSL version Enumeration values: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Type	Description
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 **cipher_2**: EECDH+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. Enumeration values: • **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	Whether to use a dedicated IP address. This parameter is reserved and can be ignored. • **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).

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Table 3-42 CloudWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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 3-43 BlockPage

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

Table 3-44 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 *Web Application Firewall (WAF) User Guide*.

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Table 3-45 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Table 3-46 Access_progress

Parameter	Type	Description
step	Integer	Step • **1**: whitelisting WAF IP addresses. • **2**: testing WAF. • modifying DNS record.
status	Integer	Status. The value can be **0** or **1**. • **0**: The step has not been finished. • **1**: The step has finished.

Status code: 400

Table 3-47 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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Status code: 401

Table 3-48 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-49 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" : "e91ad96e379b4bea84f8fcda3d153370",
  "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",
```

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```
    "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" : "4f5372610cdc44f7970759fcca138c81",
  "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**.

3.1.5 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}

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Table 3-50 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 3-51 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 3-52 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

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Table 3-53 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. • **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. • **-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. • **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. • **true**: Use a dedicated IP address. • **false**: Do not use a dedicated IP address.

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Parameter	Type	Description
paid_type	String	Package-based payment mode. Enumeration values: • **prePaid** • **postPaid**

Table 3-54 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

Table 3-55 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-56 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-57 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.

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

Error Codes

See **Error Codes**.

3.1.6 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 3-58 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.

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Table 3-59 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 3-60 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 3-61 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	WAF status of the protected domain name. • **-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

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Table 3-62 Response body parameters

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. • **-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 3-63 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-64 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-65 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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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**.

3.2 Dedicated Instance Management

3.2.1 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

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Table 3-66 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 3-67 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 3-68 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

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Table 3-69 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 3-70 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. • **0**: Normal. • **1**: Frozen. Resources and data will be retained, but the instance cannot be used. • **2**: Terminated. Resources and data will be cleared.

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Parameter	Type	Description
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: • **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**. • **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**. • **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.

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Table 3-71 IdHostnameEntry

Parameter	Type	Description
id	String	Domain name ID.
hostname	String	Protected Domain Name

Status code: 400

Table 3-72 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-73 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-74 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,
```

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```
 "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**.

3.2.2 Creating a Dedicated WAF Instance

Function

This API is used to create a dedicated WAF instance.

URI

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

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Table 3-75 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 3-76 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 3-77 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 3-78 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

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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 3-79 Response body parameters

Parameter	Type	Description
instances	Array of **instanceInfo** objects	instances

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Table 3-80 instanceInfo

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

Status code: 400

Table 3-81 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-82 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-83 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",
```

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```
  "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**.

3.2.3 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}

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Table 3-84 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 3-85 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 3-86 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

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Table 3-87 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. • **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: • **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.

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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 3-88 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-89 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-90 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**.

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3.2.4 Renaming a Dedicated WAF Instance

Function

Renaming a Dedicated WAF Engine.

URI

PUT /v1/{project_id}/premium-waf/instance/{instance_id}

Table 3-91 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 3-92 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 3-93 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).

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

Table 3-94 Request body parameters

Parameter	Mandatory	Type	Description
instancename	Yes	String	New name of the dedicated WAF engine

Response Parameters

Status code: 200

Table 3-95 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.

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Parameter	Type	Description
status	Integer	Billing status of the dedicated WAF instance. • **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: • **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

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Table 3-96 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-97 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-98 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",
```

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```
  "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**.

3.2.5 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 3-99 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

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Table 3-100 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 3-101 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 3-102 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.

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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. • **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: • **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

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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 3-103 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-104 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-105 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",
```

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```
 "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**.

3.3 Managing Websites Protected by Dedicated WAF Engines

3.3.1 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

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Table 3-106 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 3-107 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

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Parameter	Mandatory	Type	Description
protect_status	No	Integer	WAF status of the protected domain name. • **-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 3-108 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 3-109 Response body parameters

Parameter	Type	Description
total	Integer	Total number of protected domain names

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Parameter	Type	Description
items	Array of **SimplePremiumWafHost** objects	Array of details about all protected domain names

Table 3-110 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. • **-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

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Table 3-111 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

Table 3-112 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-113 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-114 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-a419-9c67ccxxxx" ]
  } ]
}
```

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**.

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3.3.2 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 3-115 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 3-116 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 3-117 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).

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Table 3-118 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID. It can be obtained by calling the **ListCertificates** API. • 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. • 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. • **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

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Table 3-119 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**
back_protocol	Yes	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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: • **ipv4** • **ipv6**

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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. • 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 3-120 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 3-121 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 *Web Application Firewall (WAF) User Guide*.

Response Parameters

Status code: 200

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Table 3-122 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: • **HTTPS** • **HTTP** • **HTTP&HTTPS**
server	Array of **PremiumWafServer** objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether to use a proxy • **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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Type	Description
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**. • **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**: EECDH+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: • **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.

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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. • **-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 3-123 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**

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Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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: • **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. • 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.

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Table 3-124 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Table 3-125 BlockPage

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

Table 3-126 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 *Web Application Firewall (WAF) User Guide*.

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Status code: 400

Table 3-127 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-128 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-129 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

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```
{
  "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**.

3.3.3 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}

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Table 3-130 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 3-131 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 3-132 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).

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Table 3-133 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used for the protected domain name. • **false**: No proxy is used. • **true**: A proxy is used.
certificateid	No	String	Certificate ID. It can be obtained by calling the **ListCertificates** API. • 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. • 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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Mandatory	Type	Description
cipher	No	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 • **cipher_2**: EECDH+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. Enumeration values: • **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.

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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 3-134 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 3-135 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 *Web Application Firewall (WAF) User Guide*.

Response Parameters

Status code: 200

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Table 3-136 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 **PremiumWafServer** objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. • **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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Type	Description
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 • **cipher_2**: EECDH+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: • **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.

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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. • **-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 3-137 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**

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Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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: • **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. • 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.

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Table 3-138 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Table 3-139 BlockPage

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

Table 3-140 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 *Web Application Firewall (WAF) User Guide*.

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Status code: 400

Table 3-141 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-142 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-143 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",
```

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```
    "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**.

3.3.4 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}

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Table 3-144 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 3-145 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 3-146 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

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Table 3-147 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 **PremiumWafServer** objects	Origin server configuration of the protected domain name
proxy	Boolean	Whether a proxy is used for the protected domain name. • **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: • **TLS v1.0** • **TLS v1.1** • **TLS v1.2** • **TLS v1.3**

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Parameter	Type	Description
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**. • **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**: EECDH+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: • **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.

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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. • **-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 3-148 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Protocol used by the client to request access to the origin server. Enumeration values: • **HTTP** • **HTTPS**

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Parameter	Type	Description
back_protocol	String	Protocol used by WAF to forward client requests it received to origin servers Enumeration values: • **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: • **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. • 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.

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Table 3-149 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Table 3-150 BlockPage

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

Table 3-151 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 *Web Application Firewall (WAF) User Guide*.

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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

```
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"
  } ],
```

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```
 "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**.

3.3.5 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}

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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.
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

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.
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 3-157 Request header parameters

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

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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 3-158 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. • **-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 **id*. This field is redundant.
vpc_ids	Array of strings	VPC ID list

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Table 3-159 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

Status code: 400

Table 3-160 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-161 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-162 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**.

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3.3.6 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 3-163 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 3-164 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 3-165 Request header parameters

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

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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 3-166 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	WAF status of the protected domain name. • **-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

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Table 3-167 Response body parameters

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. • **-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 3-168 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-169 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-170 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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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**.

3.4 Policy Management

3.4.1 Querying the Protection Policy List

Function

This API is used to query the protection policy list.

URI

GET /v1/{project_id}/waf/policy

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Table 3-171 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 3-172 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 3-173 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).

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

Response Parameters

Status code: 200

Table 3-174 Response body parameters

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

Table 3-175 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**

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Parameter	Type	Description
full_detection	Boolean	The detection mode in Precise Protection. • **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 3-176 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: • **block** • **log**

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Table 3-177 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-178 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 3-179 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-180 Response body parameters

Parameter	Type	Description
error_code	String	Error code

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Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-181 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,
      "geoip" : 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" : [ ]
```


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```
 }]
}
```

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**.

3.4.2 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 3-182 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.

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Table 3-183 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 3-184 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 3-185 Request body parameters

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

Response Parameters

Status code: 200

Table 3-186 Response body parameters

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

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Parameter	Type	Description
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	Boolean	The detection mode in Precise Protection. • **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

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Table 3-187 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: • **block** • **log**

Table 3-188 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-189 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 3-190 Response body parameters

Parameter	Type	Description
error_code	String	Error code

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Parameter	Type	Description
error_msg	String	Error message

Status code: 401

Table 3-191 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-192 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-193 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",
```

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```
  "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**.

3.4.3 Querying a Policy by ID

Function

This API is used to query a policy by ID.

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URI

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

Table 3-194 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 3-195 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 3-196 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

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Table 3-197 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	Boolean	The detection mode in Precise Protection. • **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.

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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 3-198 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: • **block** • **log**

Table 3-199 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-200 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.

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Parameter	Type	Description
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 3-201 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-202 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-203 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,
```

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```
 "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**.

3.4.4 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}

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Table 3-204 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 3-205 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 3-206 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 3-207 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Array of details of policies

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Parameter	Mandatory	Type	Description
level	No	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	No	Boolean	The detection mode in Precise Protection. • **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.

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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 3-208 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: • **block** • **log**

Table 3-209 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**

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Parameter	Mandatory	Type	Description
common	No	Boolean	Whether general check is enabled Enumeration values: • **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: • **true** • **false**
crawler_engine	No	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**
crawler_scanner	No	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**
crawler_script	No	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	No	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	No	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**

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Parameter	Mandatory	Type	Description
cc	No	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	No	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	No	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**
ignore	No	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**
privacy	No	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	No	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**

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Parameter	Mandatory	Type	Description
antileakage	No	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	No	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	No	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-210 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 3-211 Response body parameters

Parameter	Type	Description
id	String	Policy ID

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Parameter	Type	Description
name	String	Array of details of policies
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	Boolean	The detection mode in Precise Protection. • **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

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Table 3-212 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: • **block** • **log**

Table 3-213 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-214 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

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Table 3-215 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-216 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-217 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,
```

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```
    "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**.

3.4.5 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}

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Table 3-218 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 3-219 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 3-220 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 3-221 Response body parameters

Parameter	Type	Description
id	String	Policy ID

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Parameter	Type	Description
name	String	Array of details of policies
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	Boolean	The detection mode in Precise Protection. • **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

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Table 3-222 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: • **block** • **log**

Table 3-223 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-224 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

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Table 3-225 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-226 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-227 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,
```

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```
    "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**.

3.4.6 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}

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Table 3-228 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 3-229 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 3-230 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

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Table 3-231 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Array of details of policies
level	Integer	Protection level of basic web protection • **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. Default: **2** Enumeration values: • **1** • **2** • **3**
full_detection	Boolean	The detection mode in Precise Protection. • **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.

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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 3-232 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: • **block** • **log**

Table 3-233 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: • **true** • **false**
common	Boolean	Whether general check is enabled Enumeration values: • **true** • **false**
crawler	Boolean	This parameter is reserved. The value of this parameter is fixed at **true**. You can ignore this parameter. Enumeration values: • **true** • **false**
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: • **true** • **false**
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: • **true** • **false**
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: • **true** • **false**
webshell	Boolean	Whether webshell detection is enabled Enumeration values: • **true** • **false**
cc	Boolean	Whether the CC attack protection rules are enabled Enumeration values: • **true** • **false**
custom	Boolean	Whether precise protection is enabled Enumeration values: • **true** • **false**
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: • **true** • **false**
geoip	Boolean	Whether geolocation access control is enabled Enumeration values: • **true** • **false**

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Parameter	Type	Description
ignore	Boolean	Whether false alarm masking is enabled Enumeration values: • **true** • **false**
privacy	Boolean	Whether data masking is enabled Enumeration values: • **true** • **false**
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: • **true** • **false**
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: • **true** • **false**
bot_enable	Boolean	Whether the anti-crawler protection is enabled Enumeration values: • **true** • **false**
followed_action	Boolean	Whether the Known Attack Source protection is enabled. Enumeration values: • **true** • **false**

Table 3-234 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.

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Parameter	Type	Description
mode	String	This parameter is required only by the dedicated mode.

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

```
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",
```

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```
 "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**.

3.5 Rule Management

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3.5.1 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 3-238 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 API for querying the policy list.
ruletype	Yes	String	Policy Type Enumeration values: • **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.

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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
status	No	Integer	Status. The options are **0** and **1**. **0**: Disabled. **1**: Enabled.

Response Parameters

Status code: 200

Table 3-242 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.

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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}/{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
}
```

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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 Querying False Alarm Masking Rules

Function

Querying False Alarm Masking Rules

URI

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

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.

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.

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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 3-248 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
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.

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Table 3-250 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**. • **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 3-251 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-252 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-253 Response body parameters

Parameter	Type	Description
error_code	String	Error code

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Parameter	Type	Description
error_msg	String	Error message

Status code: 500

Table 3-254 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.

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Error Codes

See **Error Codes**.

3.5.3 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 3-255 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 3-256 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 3-257 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).

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

Table 3-258 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 3-259 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**. • **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

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Table 3-260 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-261 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-262 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"
}
```

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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**.

3.5.4 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 3-263 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.

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Table 3-264 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 3-265 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 3-266 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**. • **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

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Table 3-267 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-268 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-269 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" : "40484384970948d79fffe4e4ae1fc54d",
  "policyid" : "f385eceedf7c4c34a4d1def19eafbe85",
  "timestamp" : 1650512535222,
  "description" : "demo",
  "status" : 1,
  "rule" : "091004",
  "url" : "/test"
}
```

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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**.

3.5.5 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 3-270 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 3-271 Query Parameters

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

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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 3-272 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 3-273 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

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Table 3-274 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**. • **0**: The rule is disabled. • **1**: The rule is enabled.
addr	String	IP address/IP address group
white	Integer	Protective action • **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 3-275 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-276 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-277 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**.

3.5.6 Creating a Blacklist/Whitelist Rule

Function

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

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URI

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

Table 3-278 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 3-279 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 3-280 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**

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Table 3-281 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 • **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 3-282 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 • **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**. • **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.

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Status code: 400

Table 3-283 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-284 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-285 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",
```

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```
  "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**.

3.5.7 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 3-286 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.

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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 3-287 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 3-288 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 3-289 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

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Parameter	Mandatory	Type	Description
white	Yes	Integer	Protective action • **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 3-290 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 • **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 3-291 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-292 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-293 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.

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Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

3.5.8 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 3-294 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 3-295 Query Parameters

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

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Request Parameters

Table 3-296 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 3-297 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**. • **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 • **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

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Table 3-298 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-299 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-300 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
}
```

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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**.

3.5.9 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 3-301 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 3-302 Query Parameters

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

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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 3-303 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 3-304 Response body parameters

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

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Table 3-305 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**. • **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. • **Params**: The **params** field in requests • **Cookie**: Web visitors distinguished by cookie • **Header**: Custom HTTP header • **Form**: Forms Enumeration values: • **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 3-306 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-307 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-308 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.

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Error Codes

See **Error Codes**.

3.5.10 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 3-309 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 3-310 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 3-311 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).

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

Table 3-312 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. • **Params**: The **params** field in requests • **Cookie**: Web visitors distinguished by cookie • **Header**: Custom HTTP header • **Form**: Forms Enumeration values: • **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

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Table 3-313 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**. • **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. • **Params**: The **params** field in requests • **Cookie**: Web visitors distinguished by cookie • **Header**: Custom HTTP header • **Form**: Forms Enumeration values: • **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 3-314 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-315 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-316 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.

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Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

3.5.11 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 3-317 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 3-318 Query Parameters

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

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Request Parameters

Table 3-319 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 3-320 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. • **Params**: The **params** field in requests • **Cookie**: Web visitors distinguished by cookie • **Header**: Custom HTTP header • **Form**: Forms Enumeration values: • **params** • **cookie** • **header** • **form**

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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 3-321 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**. • **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. • **Params**: The **params** field in requests • **Cookie**: Web visitors distinguished by cookie • **Header**: Custom HTTP header • **Form**: Forms Enumeration values: • **params** • **cookie** • **header** • **form**

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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 3-322 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-323 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-324 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"
}
```

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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**.

3.5.12 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 3-325 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.

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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 3-326 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 3-327 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 3-328 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.

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Parameter	Type	Description
description	String	(Optional) A description of the rule.
status	Integer	Rule status. The value can be **0** or **1**. • **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. • **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 3-329 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-330 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-331 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**.

3.5.13 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

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Table 3-332 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 3-333 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 3-334 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).

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

Response Parameters

Status code: 200

Table 3-335 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 rues

Table 3-336 GeoIpItem

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
name	String	Name of the geolocation access control rue
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**: Xizang, **NM**: Inner Mongolia

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Parameter	Type	Description
white	Integer	Protective action • **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. • **true**: enabled. • **false**: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-337 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-338 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-339 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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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" : "2abeeecefb9840e6bf05efbd80d0fcd7",
    "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**.

3.5.14 Creating a Geolocation Access Control Rule

Function

Creating a Geolocation Access Control Rule

URI

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

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Table 3-340 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 3-341 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 3-342 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 3-343 Request body parameters

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

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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**: Xizang, **NM**: Inner Mongolia
white	Yes	Integer	Protective action • **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. • **true**: enabled. • **false**: disabled.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-344 Response body parameters

Parameter	Type	Description
id	String	Rule ID

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Parameter	Type	Description
name	String	Name of the geolocation access control rue
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**: Xizang, **NM**: Inner Mongolia
white	Integer	Protective action • **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. • **true**: enabled. • **false**: disabled.
timestamp	Long	Time the rule is created.

Status code: 400

Table 3-345 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-346 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-347 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.

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Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

3.5.15 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 3-348 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.

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Table 3-349 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 3-350 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 3-351 Request body parameters

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

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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**: Xizang, **NM**: Inner Mongolia
white	Yes	Integer	Protective action • **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 3-352 Response body parameters

Parameter	Type	Description
id	String	Rule ID
name	String	Name of the geolocation access control rue
description	String	Description
policyid	String	Policy ID

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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**: Xizang, **NM**: Inner Mongolia
white	Integer	Protective action • **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 3-353 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

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Table 3-355 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**.

3.5.16 Deleting a Geolocation Access Control Rule

Function

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

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URI

DELETE /v1/{project_id}/waf/policy/{policy_id}/geoip/{rule_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.
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 3-357 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).

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Parameter	Mandatory	Type	Description
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	Rule ID
name	String	Name of the geolocation access control rue
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**: Xizang, **NM**: Inner Mongolia
white	Integer	Protective action • **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. • **true**: enabled. • **false**: disabled.
description	String	Description
timestamp	Long	Time the rule is created.

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Status code: 400

Table 3-360 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-361 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-362 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
}
```

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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**.

3.5.17 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 3-363 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 3-364 Query Parameters

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

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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 3-365 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 3-366 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.

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Table 3-367 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**. • **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 3-368 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-369 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-370 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**.

3.5.18 Creating a Web Tamper Protection Rule

Function

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

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URI

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

Table 3-371 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 3-372 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 3-373 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**

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Table 3-374 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 asterisk (*) indicates the path prefix.
description	No	String	Rule Description

Response Parameters

Status code: 200

Table 3-375 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**. • **0**: The rule is disabled. • **1**: The rule is enabled.

Status code: 400

Table 3-376 Response body parameters

Parameter	Type	Description
error_code	String	Error code

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Parameter	Type	Description
error_msg	String	Error message

Status code: 401

Table 3-377 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-378 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"
}
```

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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**.

3.5.19 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 3-379 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.

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Table 3-380 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 3-381 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 3-382 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 3-383 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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Status code: 401

Table 3-384 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-385 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.

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

Error Codes

See **Error Codes**.

3.5.20 Querying the Reference Table List

Function

This API is used to query the reference table list.

URI

GET /v1/{project_id}/waf/valuelist

Table 3-386 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 3-387 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.

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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 3-388 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 3-389 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 3-390 ValueListResponseBody

Parameter	Type	Description
id	String	ID of the reference table

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Parameter	Type	Description
name	String	Reference table name.
type	String	Reference table type Enumeration values: • **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 3-391 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-392 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-393 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**.

3.5.21 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.

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URI

POST /v1/{project_id}/waf/valuelist

Table 3-394 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 3-395 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 3-396 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**

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Table 3-397 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: • **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 3-398 Response body parameters

Parameter	Type	Description
id	String	ID of the reference table
name	String	Reference table name.

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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 3-399 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-400 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-401 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" ],
```

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```
  "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**.

3.5.22 Modifying a Reference Table

Function

This API is used to modify a reference table.

URI

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

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Table 3-402 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 3-403 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 3-404 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**

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Table 3-405 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: • **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 3-406 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

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Parameter	Type	Description
values	Array of strings	Value of the reference table

Status code: 400

Table 3-407 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-408 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-409 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

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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**.

3.5.23 Deleting a Reference Table

Function

This API is used to delete a reference table.

URI

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

Table 3-410 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.

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Table 3-411 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 3-412 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 3-413 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 3-414 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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Status code: 401

Table 3-415 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-416 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.

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Error Codes

See **Error Codes**.

3.6 Certificate Management

3.6.1 Querying the List of Certificates

Function

This API is used to query the list of certificates.

URI

GET /v1/{project_id}/waf/certificate

Table 3-417 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 3-418 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**

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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**. • **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 3-419 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

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Table 3-420 Response body parameters

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

Table 3-421 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 3-422 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

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Table 3-423 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-424 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-425 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
  } ]
}
```

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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 Uploading a Certificate

Function

This API is used to upload a certificate.

URI

POST /v1/{project_id}/waf/certificate

Table 3-426 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 3-427 Query Parameters

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

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Request Parameters

Table 3-428 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 3-429 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 3-430 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name

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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 3-431 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 3-432 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-433 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-434 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
BAYTAlpIMRIwEAYDVQQIDAlHVUFOR0RPTkcxETAPBgNVBAcMCERPTkdHVUFOMQ0w
CwYDVQQKDARERUtFMQswCQYDVQQLDAJESzELMAkGA1UEAwwCT0QxHTAbBgkqhkiG
9w0BCQEWDk8IZC5odWF3ZWkuY29tMB4XDTIxMTExNTA4MTk0MVoXDTIyMTExNTA4
MTk0MVowfDELMAkGA1UEBhMCWkgxEjAQBgNVBAgMCUdVQU5HRE9ORzERMA8GA1UE
BwwIRE9OR0dVQU4xDTALBgNVBAoMBERFS0UxCzAJBgNVBAsMAkRLMQswCQYDVQQD
DAJPRDEdMBsGCSqGSIb3DQEJARYOTwhkLmh1YXdlaS5jb20wggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDcoLFK62//r0RHFyweYBj97S4NsJ8Qj0RG+Y02
OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKBaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr /
kFYMlOcimhSfW4wt6VakniOKIYGrCxxvQe1X2OyBxT+ocTLRgEIB8ZbvJyPNseg
feLEUuPYRpQ5kXLgJH2/3NwZFOgBHVv/b07l4fR+sWJMnIA2yIjSBQ0DEAOSusXo FQ/
WRbBRH7DrQmxGiXsq4VELEr9Nnc/Kywq+9pYi8L+mKeRL+lcMMbXC/3k6OfMB
tVTiwcmS1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJZTPH6lYtAgMBAAGjUDBOMB0G
A1UdDgQWBBQprUUFXW+gIkpzXdrYlsWjfSahWjAfBgNVHSMEGDAWgBQprUUFXW+g
IkpzXdrYlsWjfSahWjAMBgNVHRMEBTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQA2
603KozsQoIKeLvqDJlcAXwWRfNW8SvlaSJAulhHgneMt9bQgIL+3PJWA/iMniOhU o/
kVwkiUIcxw4t7RwP0hVms0OZw59MuqKd3oCSWkYO4vEHs3t40JDWnGDnmQ4sol
RkOWJwL4w8tnPe3qY9JSupjlsu6Y1hlvKtEfN2vEKFnsuMhidkUpUAJWodHhWBQH
wgIDo4/6yTnWZNGK8JDal86Dm5IchXea1EoYBJsHxiJb7HeWQlkre+MCYi1RHOin 4mIXTr0oT4/jWlgklSz6/
ZhGRq+7W7tll7cvzCe+4XsVZIenAcYoNd/WLfo91PD4 yAsRXrOjW1so1Bj0BkDz\\n -----END CERTIFICATE-----",
  "key" : "-----BEGIN PRIVATE KEY----- \
\nMIIEvwIBADANBgkqhkiG9w0BAQEFAASCBKkwggSlAgEAAoIBAQDcoLFK62//r0RH FyweYBj97S4NsJ8Qj0RG
+Y02OgwhQmRiNNjubJwP8Nqqyd86zr+fsSQxKBaBCosn 1PcN2Pj2vPJD6NEk4I6VdOWr/
kFYMlOcimhSfW4wt6VakniOKIYGrCxxvQe1X2Oy BxT
+ocTLRgEIB8ZbvJyPNsegfeLEUuPYRpQ5kXLgJH2/3NwZFOgBHVv/b07l4fR+ sWJMnIA2yIjSBQ0DEAOSusXoFQ/
WRbBRH7DrQmxGiXsq4VELEr9Nnc/Kywq+9pYi 8L+mKeRL+lcMMbXC/
3k6OfMBtVTiwcmS1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJ ZTPH6lYtAgMBAAECggEBAL+xZxm/QoqXT
+2stoqV2GEYaMFASpRqxlocjZMmEE/9 jZa+cBWIjHhVPsjRqYFBDcHEebu0JwlrjcjIAvgnIvnO5XgXm1A9Q
+WbscokmcX1 xCvpHgc+MDVn+uWdCd4KW5kEk4EnSsFN5iNSf+1VxNURN+gwSSp/0E+muwA5IISO G6HQ
+p6qs52JAitX5t/7ruKoHYXJxBnf7TUs7768qrh++KPKpPlq044qoYlcGO1n 4urPBHuNLy04GgGw
+vkaqjqOvZrNLVOMMaFWBxsDWBehgSSBQTj+f3NCxneGYtt8 3SCTZQI5nIkb+r/
M455EwKTSXuEsNHoIwx7L6GEPbQECgYEA8IxgK2fYykloICoh
TFJaRAvyjyKa2+Aza4qT9SGY9Y30VPClPjBB1vUu5M9KrFufzlv06nGEcHmpEwOe
8vbRu7nLAQTGYFi8VK63q8w6FlFdAyCG6Sx+BWCfWxJzXsZLAJTfklwi8HsOSlqh
6QNv0xbE2fLjXKf8MHvtrufip40CgYEA6sy87eDrkVgtq4ythAik3i1C5Z3v0fvx mTblG52Z21OyocNq3Tf/
b1ZwoIc1ik6cyBzY6z1blrbSzArCqm0sb2iD+kJL81O0 /qqdXjBxZUkKiVAMNNp7xJGZHHFKWUxT2+UX/
```

```
tlyx4tT4dzrFIkdDXkcMmqfsRxd 1NEVaAaT8SECgYAoU7BPtpIun43YTpfUfr3pSIN6oZeKoxSbw9i4MNC
+4fSDRPC+ 80ImcmZRL7taF+Y7p0jxAOTuIkdJC8NbAiv5J9WzrwQ+5MF2BPB/2bYnRa6tNofH kZDy/
9bXYsl6qw2p5Ety8wVcgZTMvFMGiG/32IpZ65FYWEU8L5qSRwfFhQKBgQC9 ihjZTj/bTHtRiHZppzCvyYm/Igd
+Uwtsy0uXR1n0G1SQENgrTBD/J6AzdfJae6tE P0U8YIM5Oqxf2i/as9ay+IPRecMl4eSxz7jJWAGx6Yx/3AZ
+hAB1ZbNbqniCLYNk d0MvjwmA25ATO+ro4OZ7AdEpQbk3l9aG/WFyYBz9AQKBgQCucFPA1l5eslL8196V
WMr2Qo0tqzl7CGSoWQk2Sa2HZtZdfofXAaaqo+zvJ6RPHtJh0jgJtx536DVV3egI
37YrdQyJbCPZXQ3SPgqWCorUnXBwq/nxS06uwu6JBxUFc57ijmMU4fWYNrvkkmWb 7keAg/
r5Uy1joMAvBN1I6lB8pg==\\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**.

3.6.3 Querying a Certificate

Function

This API is used to query a certificate.

URI

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

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Table 3-435 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 3-436 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 3-437 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

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Table 3-438 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 3-439 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 3-440 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-441 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-442 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
QVUxEzARBgNVBAgMClNvbWUtU3RhdGUxDzANBgNVBAoMBkh1YXdlaTEcMBoGA1UEAwwTd2FmLmh1YXdl
aWNsb3VkLmNvbTAeFw0yMDA3MDkwNTQ2MDRaFw0yMDA4MDgwNTQ2MDRaMFExCzAJBgNVBAYTAkFV
MRMwEQYDVQQIDApTb21lLVN0YXRlMQ8wDQYDVQQKDAZIdWF3ZWkxHDAaBgNVBAMME3dhZi5odWF3Z
WljbG91ZC5jb20wXDANBgkqhkiG9w0BAQEFAANLADBIAkEA0UEbMzbvgOJTKrKcDUw9xjFqxM7BaQFM3SLs
QlmD5hkzygyL1ra
+cWajPJlTCxz9Ph6qldna2+OrIuTdvCcpjwIDAQABo1MwUTAdBgNVHQ4EFgQUE7ZQNcgl3lmryx1s5gy9mnC1rs
YwHwYDVR0jBBgwFoAUE7ZQNcgl3lmryx1s5gy9mnC1rsYwDwYDVR0TAQH/BAUwAwEB/
zANBgkqhkiG9w0BAQsFAANBAM5wGi88jYWLgOnGbae5hH3I9lMBKxGqv17Cbm1tjWuUogVINz86lqvCpuhzLv
D/vzJAqPIuDwqM8uvzjgRfZs8=\n-----END CERTIFICATE-----",
  "key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIBOQIBAAJBANFBGzM274DiUyqynA1MPcYxasTOwWkBTN0i7EJZg+YZM8oMi9a2vnFmozyZUwsc/
T4eqpXZ2tvjqyLk3bwnKY8CAwEAAQJBAI7LMPaH/HQk/b/bVmY0qsr
+me9nb9BqFLuqwzKbx0hSmWPOWFsd3rOFlSopyHqgYtAsPfvPumEdGbdnCyU8zAECIQD71768K1ejb
+ei2lqZqHaczqdUNQxMh54yot9F2yVWjwIhANS1Y1Jv89WEU/ZvvMS9a4638Msv2c4GGp08RtXNYn0BAiA0H4b
+cwoEbZjHf+HYg6Fo+uxu5TvSaw8287a6Qo0LyQIfVZSlYYWplT6oiX5rdLzBiap4N0gJWdsa2ihmV59LAQIgK8N
+j1daq63b0bJ9k4HruhQtpgxI6U9nFBemH4zTRYM=\n-----END RSA PRIVATE KEY-----",
  "timestamp" : 1650595334578,
  "expire_time" : 1596865564000,
  "bind_host" : [ {
    "id" : "978b411657624c2db069cd5484195d1c",
    "hostname" : "www.demo.com",
    "waf_type" : "cloud"
  } ]
}
```

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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**.

3.6.4 Deleting a Certificate

Function

This API is used to delete a certificate.

URI

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

Table 3-443 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.

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Table 3-444 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 3-445 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 3-446 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

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Table 3-447 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 3-448 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-449 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-450 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
```

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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**.

3.7 Dashboard

3.7.1 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

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Table 3-451 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 3-452 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).

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Request Parameters

Table 3-453 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 3-454 Response body parameters

Parameter	Type	Description
[items]	Array of **CountItem** objects	Statistics about requests and attacks on the WAF console

Table 3-455 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 3-456 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

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Status code: 401

Table 3-457 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 403

Table 3-458 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-459 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
```

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```
}, {
  "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**.

3.7.2 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 3-460 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.

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Table 3-461 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 3-462 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).

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

Response Parameters

Status code: 200

Table 3-463 Response body parameters

Parameter	Type	Description
[items]	Array of **StatisticsTimelineItem** objects	QPS statistics over time on the dashboard

Table 3-464 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 3-465 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

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Table 3-466 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-467 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-468 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" : [ {
```

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```
    "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**.

3.7.3 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

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Table 3-469 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 3-470 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.

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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 3-471 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 3-472 Response body parameters

Parameter	Type	Description
[items]	Array of **BandwidthStatisticsTimelineItem** objects	Bandwidth statistics over the time, including **BANDWIDTH**, **IN_BANDWIDTH**, and **OUT_BANDWIDTH**.

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Table 3-473 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 3-474 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 3-475 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-476 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

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Table 3-477 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**.

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3.7.4 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 3-478 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 3-479 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**.

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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 3-480 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

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Table 3-481 Response body parameters

Parameter	Type	Description
[items]	Array of **StatisticsTimelineItem** objects	Request Timeline Data for Security Statistics.

Table 3-482 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 3-483 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 3-484 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

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Table 3-485 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-486 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
  } ]
```

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```
}, {
  "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**.

3.8 Event Management

3.8.1 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

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Table 3-487 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 3-488 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: • **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.

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Parameter	Mandatory	Type	Description
attacks	No	Array	Attack type • **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.

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Request Parameters

Table 3-489 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 3-490 Response body parameters

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

Table 3-491 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

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Parameter	Type	Description
attack	String	Attack type • **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

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Parameter	Type	Description
response_body	String	Response body
request_body	String	Request body

Status code: 400

Table 3-492 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-493 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-494 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,
```

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```
 "items" : [ {
   "id" : "04-0000-0000-0000-21120220421152601-2f7a5ceb",
   "time" : 1650525961000,
   "policyid" : "25f1d179896e4e3d87ceac0598f48d00",
   "host" : "x.x.x.x:xxxxx-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" : "xxxxx-xxxxx-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**.

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

Function

Querying Details About an Event of a Specified ID

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URI

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

Table 3-495 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 3-496 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 3-497 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

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Table 3-498 Response body parameters

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

Table 3-499 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

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Status code: 400

Table 3-500 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-501 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-502 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",
```

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```
  "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**.

3.9 Querying the Domain Name of a Tenant

3.9.1 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

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Table 3-503 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 3-504 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 3-505 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).

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

Response Parameters

Status code: 200

Table 3-506 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 3-507 CompositeHostResponse

Parameter	Type	Description
id	String	• **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

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Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. • **-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 3-508 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

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Status code: 400

Table 3-509 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 401

Table 3-510 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error message

Status code: 500

Table 3-511 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" : "41cba8aee2e94bcdbf57460874205494",
    "timestamp" : 1650527546454,
```

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```
    "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**.

3.9.2 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 3-512 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.

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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 3-513 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 3-514 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 3-515 Response body parameters

Parameter	Type	Description
id	String	• **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

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Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. • **-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 3-516 Flag

Parameter	Type	Description
pci_3ds	String	Whether the website passes the PCI 3DS certification check. • **true**: The website passed the PCI 3DS certification check. • **false**: The website failed the PCI 3DS certification check. Enumeration values: • **true** • **false**
pci_dss	String	Whether the website passed the PCI DSS certification check. • **true**: The website passed the PCI DSS certification check. • **false**: The website failed the PCI DSS certification check. Enumeration values: • **true** • **false**

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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: 500

Table 3-519 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"
}
```

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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**.

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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.

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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

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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.00011015	spec.code.illegal	Illegal spec code of WAF	Replacing Valid WAF Specifications
400	WAF.00011016	name.duplicate	Duplicated name.	Change the name.

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Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00011017	ipv6.switch.illegal	IPv6 defense cannot be disabled.	Enable IPv6 defense.
400	WAF.00011018	action.type.illegal	Illegal action type	Replace a valid defense action type.
400	WAF.00011019	cert.illegal	Illegal certificate	Use a valid certificate.
400	WAF.00011020	cve.num.illegal	Invalid CVE ID	Use a valid CVE ID.
400	WAF.00011021	cert.expired	Certificate has expired	Replacing an Unexpired Certificate
400	WAF.00011022	gocm.action.illegal	Illegal GOCM ACTION	Check the action in the GOCM ticket and use a correct and valid action rule.
400	WAF.00011023	repeat.purchases	It is not allowed to purchase twice	It is not allowed to purchase twice
400	WAF.00012001	invalid.token	Illegal token	Check whether the token is correct
400	WAF.00012002	invalid.project	Inconsistency between project_id and token	Check consistency of project_id and token
400	WAF.00013004	protocol.not.support	Protocol not supported	Through ELB conversion protocol
400	WAF.00013010	custom.ruleset.does.not.support.for.shared.policy	Custom rule set does not support for shared policy	nothing
400	WAF.00014002	resource.already.exists	Resource already exists	Resource already exists
400	WAF.00014003	open.protect.failed	Failed to open protection	Check domain name protection status

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Status Code	Error Codes	Error Message	Description	Solution
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.00014010	port.protocol.mismatch	Port and protocol mismatch	Select the matching protocol and port
400	WAF.00014011	host.blacklist	It is forbidden to add the protection website, and the domain name is blacklisted	-
400	WAF.00014012	website.not.register	Website is not registered	Filing website
400	WAF.00014013	host.already.access	The domain name already has accessed waf	nothing
400	WAF.00014014	exclusive.ip.config.error	exclusive.ip.config.error	Check exclusive IP configuration
400	WAF.00014015	resource.is.being.used	Resource is in use	nothing
400	WAF.00014016	ip.group.is.being.shared	IP group is being shared	nothing

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Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00014017	policy.is.being.shared	Policy is being shared	nothing
400	WAF.00014018	certificate.is.being.shared	Certificate is being shared	nothing
400	WAF.00014019	policy.is.being.disconnecting	Policy is being disconnecting	nothing
400	WAF.00014026	sdk.already.exists	Sdk config already exists	Check the SDK configuration.
400	WAF.00014027	certificate.already.exists	Certificate already exists	Check the certificate file.
400	WAF.00014028	host.already.exists	Website already exists	Check the protected domain name.
400	WAF.00014029	certificateSharing.already.exists	Current certificate already exists in target enterprise project	Check the certificate file of the target enterprise project.
400	WAF.00014030	policySharing.already.exists	Current policy already exists in target enterprise project	Check the protection policy of the target enterprise project.
400	WAF.00014031	ipGroupSharing.already.exists	Current ip address group already exists in target enterprise project	Check the IP address group of the target enterprise project.
400	WAF.00015001	premium.instance.not.available	Dedicated WAF instance is not available. Please check configurations	check configurations
400	WAF.00015005	premium.instance.illegal.flavor	Illegal ECS flavor of dedicated WAF instance	Change the ECS specifications.

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Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00015006	premium.instance.purchase.config.not.found	Purchase options of Premium WAF is not configured	Check the option configuration on the Premium WAF purchase page.
400	WAF.00016001	elb.mode.not.available	ELB mode is not available	Check the ELB mode configuration.
400	WAF.00021001	bad.request	Bad request	nothing
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

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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

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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

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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	pageOrPageSize.illegal	Illegal page or pagesize	It is recommended to view the parameter limits according to the documentation in the help center
400	WAF.00021022	name.duplicate	name duplicate	Modify the name
400	WAF.00021023	server.mode.illegal	Illegal mode	Check the service mode.
400	WAF.00021024	proxyConfig.illegal	Illegal SDK proxy config	Check the SDK configuration.
400	WAF.00021025	cookie.secure.conflict	Cookie with Secure/ HttpOnly conflicts with HTTP client protocol	Check the configuration.
400	WAF.00021026	condition.repeat	Duplicate rules in the condition list	Checking Rules in the Condition List
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

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Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00022004	rule.conflict	Rule conflict	Check whether the target rule conflicts with the existing rule
400	WAF.00022006	host.conflict	Someone else has already added this domain name, Please confirm whether the domain name belongs to you. If so, contact the service staff to help you solve it	Someone else has already added this domain name, Please confirm whether the domain name belongs to you. If so, contact the service staff to help you solve it
400	WAF.00022007	open.protect.failed	Failed to enable protection, please access the traffic first	please access the traffic first
400	WAF.00022012	rule.resource.already.exists	Same condition rule already exists	Check the added rule condition.
400	WAF.00023001	policy.not.bind.domain	The policy is not bound a domain	Bind the domain name first
400	WAF.00023002	domain.not.session.tag	Please set session tag on the domain setting page	Please configure the session tag on the domain first
400	WAF.00023003	domain.not.user.tag	Please set user tag on the domain setting page	Please configure the user tag on the domain first
401	WAF.00010005	request.iam.failed	Failed to request IAM. Please check current user's IAM permissions	Please check current user's IAM permissions

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Status Code	Error Codes	Error Message	Description	Solution
401	WAF.00010006	update.iam.failed	Failed to request IAM. Please check current user's IAM permissions	Please check current user's IAM permissions
401	WAF.00012003	permission.denied	No permission	Assign WAF required permissions to account
401	WAF.00012008	jwt.authentication.invalid.token	Illegal JWT token	Check whether the account has JWT permission
401	WAF.00012009	jwt.authentication.failed	JWT authentication failed	Give the account authorization first
401	WAF.00012011	cop.permission.denied	No cop permission.	Check the COP permission.
401	WAF.00015004	premium.instance.agency.not.ready	The IAM agency needed for dedicated WAF instance is not ready	Check the IAM Agency Permissions
401	WAF.00016003	elb.mode.elb.unauthorized	No permission to get ELB info and update ELB options	Check the user permission.
403	WAF.00012004	account.frozen	Account freezing	Account unfreezing
403	WAF.00012005	not.subscribe	Unsubscribed	Subscribe to WAF service first
403	WAF.00012006	pdp.permission.denied	No permission	Check the PDP authority of the account
403	WAF.00012007	jwt.authentication.disabled	JWT certification off	Open JWT certification
403	WAF.00012010	eps.all.not.support	eps.all.not.support	Open the write permission of enterprise project

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Status Code	Error Codes	Error Message	Description	Solution
403	WAF.00012012	not.subscribe.cloud	The target enterprise project has not subscribed to the cloud-mode WAF instance	Subscribe to a cloud-mode WAF instance.
403	WAF.00012013	not.subscribe.premium	The target enterprise project has not subscribed to the dedicated WAF instance	Subscribe to the dedicated WAF instance
403	WAF.00013001	insufficient.quota	Insufficient function quota	Purchase function quota upgrade package
403	WAF.00013002	feature.not.support	Function not supported	nothing
403	WAF.00013003	port.not.support	Port not supported	Port conversion via ELB
403	WAF.00013005	wildcard.domain.not.support	Pan domain name not supported	Use specific domain names
403	WAF.00013006	ipv6.not.support	IPv6 is not supported	The current version does not support IPv6
403	WAF.00013007	insufficient.tenant.quota	insufficient.tenant.quota	Purchase quota upgrade package
403	WAF.00013008	product.sold.out	The selected product has been sold out	Change Product Specification
403	WAF.00013009	degrade.not.support	Forbidden to degrade, current host num exceeds degraded quota	Reduce domain name usage

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Status Code	Error Codes	Error Message	Description	Solution
403	WAF.00013011	insufficient.domain.quota	Insufficient root domain quota, please purchase expansion package or upgrade specification	purchase expansion package or upgrade specification
403	WAF.00013012	insufficient.port.quota	Insufficient port quota, please purchase expansion package or upgrade specification	please purchase expansion package or upgrade specification
403	WAF.00013013	insufficient.host.quota	Insufficient domain quota, please purchase expansion package or upgrade specification	please purchase expansion package or upgrade specification
403	WAF.00013014	insufficient.policy.quota	Insufficient policy quota	Purchase the domain name expansion package or upgrade the specification
403	WAF.00015002	premium.instance.sold.out	Dedicated WAF instance is currently sold out. Please change ECS flavor or wait for restock	Please change ECS flavor or wait for restock
403	WAF.00015003	premium.instance.not.allowed	The account is not allowed to create dedicated WAF instance	Check the current account configuration.

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Status Code	Error Codes	Error Message	Description	Solution
403	WAF.00016004	elb.mode.unsupported.elb	ELB is not eligible for WAF. Only ELBv3 supports WAF	Check the ELB Mode
403	WAF.00016005	elb.mode.unsupported.elb.spec	ELB is not eligible for WAF due to its spec. Please ensure ELB has L7 flavor	Check the ELB configuration.
403	WAF.00016006	elb.mode.unsupported.elb.flavor	ELB is not eligible for WAF due to its flavor. Please ensure ELB has supported L7 flavor	Check the ELB configuration
403	WAF.00022005	insufficient.quota	Insufficient resources	It is recommended to purchase the upgrade package of corresponding resources
404	WAF.00014001	resource.not.found	Resource not found	The resource has been deleted or does not exist
404	WAF.00014009	api.not.found	The interface does not exist	Check interface URL
404	WAF.00014020	certificate.not.found	Certificate not found	Add the certificate resource.
404	WAF.00014021	ipGroup.not.found	Ip address group not found	Add an IP address group.
404	WAF.00014022	host.not.found	Domain name not found	Add a domain name.
404	WAF.00014023	premium.waf.instance.not.found	Dedicated engine not found	Add Dedicated engine WAF instance.

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Status Code	Error Codes	Error Message	Description	Solution
404	WAF.00014024	projectId.not.found	Project id not found	Check the project ID.
404	WAF.00014025	policy.not.found	Policy not found	Adding a defense policy
404	WAF.00016002	elb.mode.elb.not.found	Provided ELB not found	Check the ELB
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
404	WAF.00022008	rule.not.found	Policy rule not found	Check the policy rule.
404	WAF.00022009	certificate.not.found	certificate not found	Check whether the certificate resource has been added.
404	WAF.00022010	ipGroup.not.found	Address group not found	Add an IP address group first
404	WAF.00022011	policy.not.found	Policy not found	Add a protection policy first.
409	WAF.00016007	elb.mode.conflict	ELB is only allowed to bind either dedicated WAF pool or shared WAF pool	Repeated binding is not allowed.
409	WAF.00016008	elb.mode.ep.conflict	ELB is allowed to config in only one enterprise project	Repeated binding is not allowed.
500	WAF.00010001	internal.error	Server internal error	Contact technical support
500	WAF.00010002	system.busy	The system is busy, please try again later	Contact technical support

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Status Code	Error Codes	Error Message	Description	Solution
500	WAF.00010003	cname.failed	Failed to create or modify CNAME	Contact technical support
500	WAF.00010004	obs.failed	Failed to get OBS file download link	Contact technical support
500	WAF.00010007	risk.action.is.blocking	Due to security reasons, your account has been restricted from purchasing certain pay-per-use cloud service resources according to the HUAWEI CLOUD Customer Agreement. If you have any questions, contact customer service	contact customer service
500	WAF.00010008	frozen.deposit.failed	Insufficient account balance. Top up your account	Top up your account
500	WAF.00010009	list.eps.failed	Failed to list enterprise project	nothing
500	WAF.00020001	internal.error	Service internal exception	It is recommended to try again in five minutes
500	WAF.00020002	system.busy	System busy	It is recommended to try again in five minutes

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A.3 Obtaining a Project ID

Scenario

A project ID is required for some URLs when an API is called. Obtain the required project ID using either of the following methods:

- **Obtaining a Project ID by Calling an API**
- **Obtaining a Project ID from the Console**

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": "xxxxxxxx",
            "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 steps:

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.

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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.

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