

Web Application Firewall

API Reference

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1 Before You Start

1.1 Overview

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

This document describes how to use application programming interfaces (APIs) to perform operations on WAF, such as querying and modifying protected domain names. For details about all supported operations, see [API Overview](#).

Before calling WAF APIs, ensure that you are familiar with WAF concepts. For details, see "Service Overview" in the *Web Application Firewall User Guide*.

1.2 API Calling

WAF supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [API Calling](#).

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see [Regions and Endpoints](#).

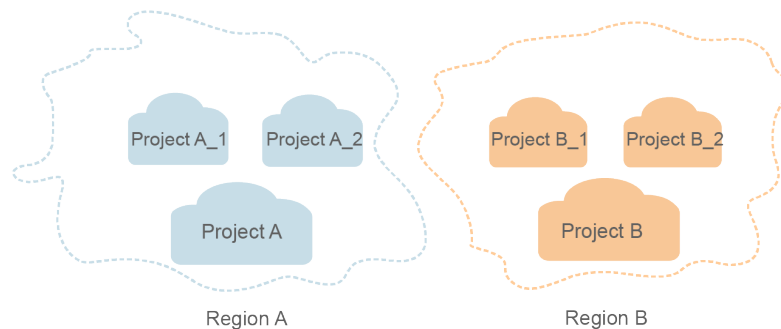
1.4 Notes and Constraints

For details about constraints, see the description of a specific API.

1.5 Basic Concepts

- **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 Global region and specific regions. The Global region provides common cloud services for all tenants, and a specific region provides only services of the same type 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 allow you to build highly available systems across AZs.
- **Project**
Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and create resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

Figure 1-1 Project isolation model



2 API Overview

You can use all functions of WAF through its APIs.

Type	Description
Resource quotas	APIs used to obtain package information and the number of added resources
Protected domain names	APIs used to manage protected domain names, including querying and creating protected domain names
Certificate management	APIs used to manage certificates, including uploading and querying certificates
Protection status and domain name connection	APIs used to change the WAF protection status and add domain names to WAF
Policies	APIs used to manage protection policies, including querying and creating protection policies
Blacklist and whitelist	APIs used to manage whitelist and blacklist rules, including querying and creating IP address whitelists or blacklists
CC attack protection rules	APIs used to manage CC attack protection rules, including querying and creating CC attack protection rules
Precise protection rules	APIs used to manage precision protection rules, including querying and creating precise protection rules
Data masking rules	APIs used to manage data masking rules, including querying and creating data masking rules
Web tamper protection rules	APIs used to manage web tamper protection rules, including querying and creating web tamper protection rules
False alarm masking rules	APIs used to manage false alarm masking rules, including querying and creating false alarm masking rules

Type	Description
Event log query	APIs used to query event logs, including querying attack event logs and event type distribution.
Alarm notification	APIs used to query and update configurations of alarm notification
Obtaining option details	APIs used to query the event type in an alarm notification and obtain the HTTP request header of the source IP address
Interconnection with Cloud Eye	API used to query the name and status of a WAF instance interconnecting with Cloud Eye

3 API Calling

3.1 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](#).
- **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.

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://{{endpoint}}/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows:

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

NOTE

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

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

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

```
POST https://{{endpoint}}/v3/auth/tokens
Content-Type: application/json
```

Request Body

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

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

In the case of the API used to obtain a user token, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Set **username** to the name of a user, **domainname** to the name of the account that the user belongs to, ********* to the user's login password, and **xxxxxxxxxxxxxxxxxxxx** to the project name, such as **eu-west-0**. You can learn more information about projects from [Regions and Endpoints](#). Check the value of the **Region** column.

 **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://{{endpoint}}/v3/auth/tokens
Content-Type: application/json

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

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

3.2 Authentication

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

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

Token-based Authentication

NOTE

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

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

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

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

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

```
POST https://{{endpoint}}/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

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

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

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

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

NOTICE

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

3.3 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 obtain a user token, the request is successful.

Response Header

A response header corresponds to a request header, for example, **Content-Type**.

[Figure 3-1](#) shows the response header for the API of obtaining a user token, in which **x-subject-token** is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

Figure 3-1 Header of the response to the request for obtaining a user token

```

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

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

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

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

x-subject-token
→ MIIVXQYJKoZIhvcNAQcCoIIYJCCGEOCAQEExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6ijlwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkqO1wi4JlGzrpdl8LGXK5tdffq4lqHCYb8P4NaY0NYejcAgz/VeFYtLWT1GSO0zxKZmlQHqj82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSstVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbvpvGw-oPNFYxJECKnoH3HRozv0wN--n5d6Nbxg==

x-xss-protection → 1; mode=block;
    
```


(Optional) Response Body

A response body is generally returned in a structured format, corresponding to the **Content-Type** in the response header, and is used to transfer content other than the response header.

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

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

```

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{
  "error": {
    "message": "The request you have made requires authentication.",
    "title": "Unauthorized"
  }
}
```

In the preceding information, **error_code** is an error code, and **error_msg** describes the error.

4 APIs

4.1 Cloud Mode

4.1.1 Resource Quotas

4.1.1.1 Obtaining Package Information

Function Description

This API is used to obtain package information of a user.

URI

- URI format
GET /v1/{project_id}/waf/bundle
- Parameter description

Table 4-1 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Request

Request parameters

None

Response

Response parameters

Table 4-2 Parameter description

Parameter	Type	Description
type	Integer	Specifies version information.
name	String	Specifies the package name.
options	Table 3	Specifies the protection switches.
rule	Table 4	Specifies the maximum number of rules in a policy.
host	Table 5	Specifies the maximum number of domain names in a policy.
other	Table 6	Specifies other restrictions in the package.

Table 4-3 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled. <p>NOTE If crawler is false, all the subswitches, crawler_engine, crawler_scanner, crawler_script, and crawler_other are invalid.</p>
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
webshell	Boolean	Specifies whether webshell detection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
custom	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
Ignore	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
full_detection	Boolean	Specifies whether the full detection mode in Precise Protection is enabled. <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.
log_download	Boolean	Specifies whether log download is available. <ul style="list-style-type: none"> • true: available. • false: unavailable.

Table 4-4 rule

Parameter	Type	Description
antitamper	Integer	Specifies the total number of web tamper protection rules. The maximum value is 100 .
cc	Integer	Specifies the total number of CC attack protection rules. The maximum value is 100 .
custom	Integer	Specifies the total number of precise protection rules. The maximum value is 100 .
ignore	Integer	Specifies the total number of false alarm masking rules. The maximum value is 1000 .

Parameter	Type	Description
privacy	Integer	Specifies the total number of data masking rules. The maximum value is 1000 .
whiteblackip	Integer	Specifies the total number of blacklist and whitelist rules. The maximum value is 100 .

 NOTE

Contact the administrator to increase the maximum values in [Table 4-4](#).

Table 4-5 host

Parameter	Type	Description
wildcard	Boolean	Specifies whether a wildcard domain is supported. <ul style="list-style-type: none"> • true: supported. • false: unsupported.
ports	Table 7	Specifies the range of ports supported.
protocol	Table 8	Specifies the client protocol.
server	Integer	Specifies the number of backend servers supported. The maximum value is 30 .
host	Integer	Specifies the number of subdomain names supported. The maximum value is 100 .
domain	Integer	Specifies the number of domain names supported. The maximum value is 100 .
cert_num	Integer	Specifies the number of certificates supported. The maximum value is 100 .

Parameter	Type	Description
policy_apply_to	Boolean	Specifies whether a policy can be applied to multiple domain names. <ul style="list-style-type: none"> • true: A policy can be applied to multiple domain names. • false: A policy cannot be applied to multiple domain names.
policy_num	Integer	Specifies the number of policies supported. The maximum value is 5000 .

Table 4-6 other

Parameter	Type	Description
default_cc	Integer	Specifies the maximum number of requests from a web visitor in a default CC attack protection policy.

Table 4-7 ports

Parameter	Type	Description
http	Array	Specifies the list of HTTP ports supported.
https	Array	Specifies the list of HTTPS ports supported.
max_num	Integer	Specifies the number of ports supported.
none_standard	Boolean	Specifies whether non-standard ports are supported. <ul style="list-style-type: none"> • true: Non-standard ports are supported. • false: Non-standard ports are not supported.

Table 4-8 protocol

Parameter	Type	Description
http	Boolean	Specifies whether the HTTP protocol is supported. <ul style="list-style-type: none"> • true: The HTTP protocol is supported. • false: The HTTP protocol is not supported.
https	Boolean	Specifies whether the HTTPS protocol is supported. <ul style="list-style-type: none"> • true: The HTTPS protocol is supported. • false: The HTTPS protocol is not supported.
http_https	Boolean	Specifies whether the HTTP and HTTPS protocols are supported. <ul style="list-style-type: none"> • true: Both HTTP and HTTPS are supported. • false: Neither HTTP nor HTTPS is supported.

Example

Response example

```
{
  "type": 1,
  "name": "Basic",
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "webshell": false,
    "cc": false,
    "custom": false,
    "whiteblackip": true,

    "privacy": true,
    "ignore": true,
    "antitamper": false,
    "log_download": true,
  },
  "rule": {
    "cc": 0,
    "custom": 0,
    "whiteblackip": 10,

    "privacy": 10,
    "ignore": 1000,
    "antitamper": 0,
  },
  "host": {
    "wildcard": false,
```



```

"protocol": {
  "http": true,
  "https": false,
  "http_https": false
},
"ports": {
  "none_standard": false,
  "http": [],
  "https": [],
  "max_num": 0
},
"domain": 1,
"host": 10,
"server": 10,
"route": false
},
"other": {
  "default_cc": 25000
}
}

```

Status Code

[Table 4-9](#) describes the normal status code returned by the API.

Table 4-9 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.1.2 Querying the Number of Existing Resources

Function Description

This API is used to query the number of existing resources of a user.

URI

- URI format
GET /v1/{project_id}/waf/bundle/usage/{resource_type}
- Parameter description

Table 4-10 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
resource_type	Yes	String	Specifies the resource type. The options are instance , policy , and certificate .

Request

Request parameters

None

Response

Response parameters

Table 4-11 Parameter description

Parameter	Type	Description
count	Integer	Specifies the number of existing resources.

Example

The following shows the response if the number of uploaded certificates is queried.

Response example

```
{
  "count": 2
}
```

Status Code

Table 4-12 describes the normal status code returned by the API.

Table 4-12 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.2 Domain Names

4.1.2.1 Querying the List of Domain Names

Function Description

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

URI

- URI format

GET /v1/{project_id}/waf/instance?
offset={offset}&limit={limit}&hostname={hostname}&policyname={policyname}

- Parameter description

Table 4-13 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 . If limit is -1 , one page with 65535 records is displayed.
hostname	No	String	Specifies the domain name.
policyname	No	String	Specifies the policy name.

Request

Request parameters

None

Response

Response parameters

Table 4-14 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of domain names.
items	Table 3	Specifies the domain objects.

Table 4-15 items

Parameter	Type	Description
id	String	Specifies the domain ID.
hostname	String	Specifies the returned domain name.
cname	String	Specifies the CNAME value. For example, efec1196267b41c399f2980ea4048517.waf.cloud.com.
txt_code	String	Specifies the TXT record. This parameter is returned only when proxy is set to true .
sub_domain	String	Specifies the subdomain name. This parameter is returned only when proxy is set to true .
policy_id	String	Specifies the policy ID.
protect_status	Integer	Specifies the WAF mode. <ul style="list-style-type: none"> • -1: bypassed. • 0: disabled. • 1: enabled.
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: The domain name is not connected to WAF. • 1: The domain name is connected to WAF.
proxy	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.
timestamp	Long	Specifies the time when a domain name is created.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [
    {
      "id": "388a7789d55b41d1918b3088a8f1e7f3",
      "hostname": "www.a.com",
```

```

    "cname": "3249d21e5eb34d21be12fdc817fcb67d.waf.cloud.com",
    "txt_code": "3249d21e5eb34d21be12fdc817fcb67d",
    "sub_domain": "3249d21e5eb34d21be12fdc817fcb67d.www.a.com",
    "policy_id": "xxxxxxxxxxxx",
    "protect_status": 0,
    "access_status": 0,
    "proxy": true,
    "timestamp": 1499817600
  },
  {
    "id": "296a7710d55b41d1918b3036a8f1e7e5",
    "hostname": "www.b.com",
    "cname": "efec1196267b41c399f2980ea4048517.waf.cloud.com",
    "policy_id": "xxxxxxxxxxxx",
    "protect_status": 1,
    "access_status": 1,
    "proxy": false,
    "timestamp": 1499817612
  }
]

```

Status Code

Table 4-16 describes the normal status code returned by the API.

Table 4-16 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.2.2 Creating a Domain Name

Function Description

This API is used to create a domain name.

URI

- URI format
POST /v1/{project_id}/waf/instance
- Parameter description

Table 4-17 Path parameters

Parameter	Mandator y	Type	Description
project_id	Yes	String	Specifies the project ID.

Request

Request parameters

Table 4-18 Request parameter description

Parameter	Mandatory	Type	Description
hostname	Yes	String	Specifies the domain name. For example, www.example.com or *.example.com .
certificate_id	No	String	Specifies the certificate ID. This parameter is mandatory when client_protocol is set to HTTPS .
server	Yes	Array	Specifies the origin server information, including the client_protocol , server_protocol , address , and port fields. <ul style="list-style-type: none"> • client_protocol: protocol type of the client. The options are HTTP and HTTPS. • server_protocol: protocol used by WAF to forward client requests to the server. The options are HTTP and HTTPS. • address: public IP address or domain name of the web server that the client accesses • port: port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
proxy	Yes	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.
sip_header_name	No	String	Specifies the type of the source IP header. This parameter is required only when proxy is set to true . The options are as follows: default , cloudflare , akamai , and custom .

Parameter	Mandatory	Type	Description
sip_header_list	No	Array	<p>Specifies the HTTP request header for identifying the real source IP address. This parameter is required only when proxy is set to true.</p> <ul style="list-style-type: none"> • If sip_header_name is default, sip_header_list is ["X-Forwarded-For"]. • If sip_header_name is cloudflare, sip_header_list is ["CF-Connecting-IP", "X-Forwarded-For"]. • If sip_header_name is akamai, sip_header_list is ["True-Client-IP"]. • If sip_header_name is custom, you can customize a value.

Response

Response parameters

Table 4-19 Response parameter description

Parameter	Type	Description
id	String	Specifies the instance ID.
hostname	String	Specifies the domain name.
cname	String	Specifies the CNAME value. For example, efec1196267b41c399f2980ea4048517.waf.cloud.com .
txt_code	String	Specifies the TXT record. This parameter is returned only when proxy is set to true .
sub_domain	String	Specifies the subdomain name. This parameter is returned only when proxy is set to true .
policy_id	String	Specifies the policy ID.

Parameter	Type	Description
protect_status	Integer	Specifies the WAF mode. <ul style="list-style-type: none"> • -1: bypassed. • 0: disabled. • 1: enabled.
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: The domain name is not connected to WAF. • 1: The domain name is connected to WAF.
proxy	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.
protocol	String	Specifies the protocol type of the client. The options are HTTP , HTTPS , and HTTP,HTTPS .
certificate_id	String	Specifies the certificate ID. This parameter is mandatory when client_protocol is set to HTTPS .
server	Array	Specifies the origin server information, including the client_protocol , server_protocol , address , and port fields.
sip_header_name	String	Specifies the type of the source IP header. This parameter is returned only when proxy is set to true . The options are as follows: default , cloudflare , akamai , and custom .
sip_header_list	Array	Specifies the HTTP request header for identifying the real source IP address. This parameter is returned only when proxy is set to true . <ul style="list-style-type: none"> • If sip_header_name is default, sip_header_list is ["X-Forwarded-For"]. • If sip_header_name is cloudflare, sip_header_list is ["CF-Connecting-IP", "X-Forwarded-For"]. • If sip_header_name is akamai, sip_header_list is ["True-Client-IP"]. • If sip_header_name is custom, you can customize a value.
timestamp	Long	Specifies the time when a domain name is created.

Examples

www.b.com is used as an example.

- Request example

```
{
  "hostname": "www.b.com",
  "certificate_id": "07fb6809a89241fca86ac6f69e34963d",
  "server": [
    {"client_protocol": "HTTPS", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "8080"},
    {"client_protocol": "HTTP", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "80"}
  ],
  "proxy": true,
  "sip_header_name": "default",
  "sip_header_list": ["X-Forwarded-For"]
}
```

- Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "hostname": "www.b.com",
  "cname": "3249d21e5eb34d21be12fdc817fcb67d.waf.cloud.com",
  "txt_code": "3249d21e5eb34d21be12fdc817fcb67d",
  "sub_domain": "3249d21e5eb34d21be12fdc817fcb67d.www.b.com",
  "policy_id": "xxxxxxxxxxxx",
  "certificate_id": "xxxxxxxxxxxx",
  "protect_status": 0,
  "access_status": 0,
  "protocol": "HTTP,HTTPS",
  "server": [
    {"client_protocol": "HTTPS", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "443"},
    {"client_protocol": "HTTP", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "80"}
  ],
  "proxy": true,
  "sip_header_name": "default",
  "sip_header_list": ["X-Forwarded-For"],
  "timestamp": 1499817600
}
```

Status Code

[Table 4-20](#) describes the normal status code returned by the API.

Table 4-20 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.2.3 Querying a Domain Name

Function Description

This API is used to query details about a domain name.

URI

- URI format
GET /v1/{project_id}/waf/instance/{instance_id}
- Parameter description

Table 4-21 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID.

Request

Request parameters

None

Response

Response parameters

Table 4-22 Response parameters

Parameter	Type	Description
id	String	Specifies the instance ID.
hostname	String	Specifies the domain name.
cname	String	Specifies the CNAME value. For example, efec1196267b41c399f2980ea4048517.waf.cloud.com .
txt_code	String	Specifies the TXT record. This parameter is returned only when proxy is set to true .
sub_domain	String	Specifies the subdomain name. This parameter is returned only when proxy is set to true .
policy_id	String	Specifies the policy ID.
protect_status	Integer	Specifies the WAF mode. <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • -1: bypassed.

Parameter	Type	Description
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: The domain name is not connected to WAF. • 1: The domain name is connected to WAF.
protocol	String	Specifies the protocol type. The options are HTTP , HTTPS , and HTTP,HTTPS .
certificate_id	String	Specifies the certificate ID. This parameter is returned only when client_protocol is set to HTTPS .
server	Array	Specifies the origin server information, including the client_protocol , server_protocol , address , and port fields. <ul style="list-style-type: none"> • client_protocol: protocol type of the client. The options are HTTP and HTTPS. • server_protocol: protocol used by WAF to forward client requests to the server. The options are HTTP and HTTPS. • address: public IP address or domain name of the web server that the client accesses • port: port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
proxy	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.
sip_header_name	String	Specifies the type of the source IP header. This parameter is returned only when proxy is set to true . The options are as follows: default , cloudflare , akamai , and custom .

Parameter	Type	Description
sip_header_list	Array	Specifies the HTTP request header for identifying the real source IP address. This parameter is returned only when proxy is set to true . <ul style="list-style-type: none"> If sip_header_name is default, sip_header_list is ["X-Forwarded-For"]. If sip_header_name is cloudflare, sip_header_list is ["CF-Connecting-IP", "X-Forwarded-For"]. If sip_header_name is akamai, sip_header_list is ["True-Client-IP"]. If sip_header_name is custom, you can customize a value.
timestamp	Long	Specifies the time when a domain name is created.
block_page	BlockPage object	Alarm page configuration

Table 4-23 BlockPage

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

Table 4-24 CustomPage

Parameter	Type	Description
status_code	String	Status code
content_type	String	The content type of the custom alarm page. The value can be text/html , text/xml , or application/json .
content	String	Configure the page content based on the value for content_type .

Example

www.a.com is used as an example.

Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "hostname": "www.a.com",

  "cname": "3249d21e5eb34d21be12fdc817fcb67d.waf.cloud.com",
  "txt_code": "3249d21e5eb34d21be12fdc817fcb67d",
  "sub_domain": "3249d21e5eb34d21be12fdc817fcb67d.www.a.com",
  "policy_id": "xxxxxxxxxxxx",
  "certificate_id": "xxxxxxxxxxxxxxxxxxxx",
  "protect_status": 0,
  "access_status": 0,
  "protocol": "HTTP,HTTPS",

  "server": [
    {"client_protocol": "HTTPS", "server_protocol": "HTTP", "address": "X.X.X.X", "port": 443},
    {"client_protocol": "HTTP", "server_protocol": "HTTP", "address": "X.X.X.X", "port": 80}
  ],
  "proxy": true,
  "sip_header_name": "default",
  "sip_header_list": ["X-Forwarded-For"],
  "timestamp": 1499817600
  "block_page": {
    "template": "default"
  },
}
```

Status Code

[Table 4-25](#) describes the normal status code returned by the API.

Table 4-25 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.2.4 Modifying the Configurations of a Domain Name

Function Description

This API is used to modify basic configurations of a domain name.

URI

- URI format
PUT /v1/{project_id}/waf/instance/{instance_id}
- Parameter description

Table 4-26 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID.

Request

Request parameters

Table 4-27 Request parameter description

Parameter	Mandatory	Type	Description
certificate_id	No	String	Specifies the certificate ID. This parameter is not required when client_protocol is set to HTTP .
server	No	Array	Specifies the origin server information, including the client_protocol , server_protocol , address , and port fields. <ul style="list-style-type: none"> • client_protocol: protocol type of the client. The options are HTTP and HTTPS. • server_protocol: protocol used by WAF to forward client requests to the server. The options are HTTP and HTTPS. • address: public IP address or domain name of the web server that the client accesses • port: port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
proxy	No	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.

Parameter	Mandatory	Type	Description
sip_header_name	No	String	Specifies the type of the source IP header. This parameter is required only when proxy is set to true . The options are as follows: default , cloudflare , akamai , and custom .
sip_header_list	No	Array	Specifies the HTTP request header for identifying the real source IP address. This parameter is required only when proxy is set to true . <ul style="list-style-type: none"> • If sip_header_name is default, sip_header_list is ["X-Forwarded-For"]. • If sip_header_name is cloudflare, sip_header_list is ["CF-Connecting-IP", "X-Forwarded-For"]. • If sip_header_name is akamai, sip_header_list is ["True-Client-IP"]. • If sip_header_name is custom, you can customize a value.

Response

Response parameters

Table 4-28 Request parameter description

Parameter	Type	Description
id	String	Specifies the domain ID.
hostname	String	Specifies the domain name.
cname	String	Specifies the CNAME value. For example, efec1196267b41c399f2980ea4048517.waf.cloud.com .
txt_code	String	Specifies the TXT record. This parameter is returned only when proxy is set to true .
sub_domain	String	Specifies the subdomain name. This parameter is returned only when proxy is set to true .

Parameter	Type	Description
policy_id	String	Specifies the policy ID.
protect_status	Integer	Specifies the WAF mode. <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • -1: bypassed.
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: The domain name is not connected to WAF. • 1: The domain name is connected to WAF.
protocol	Integer	Specifies the protocol type. The options are HTTP , HTTPS , and HTTP,HTTPS .
certificate_id	String	Specifies the certificate ID. This parameter is returned only when protocol is set to HTTPS .
server	Array	Specifies the origin server information, including the client_protocol , server_protocol , address , and port fields.
proxy	Boolean	Specifies whether a proxy is configured. <ul style="list-style-type: none"> • true: A proxy is configured. • false: No proxy is configured.
sip_header_name	String	Specifies the type of the source IP header. This parameter is returned only when proxy is set to true . The options are as follows: default , cloudflare , akamai , and custom .
sip_header_list	Array	Specifies the HTTP request header for identifying the real source IP address. This parameter is returned only when proxy is set to true . <ul style="list-style-type: none"> • If sip_header_name is default, sip_header_list is ["X-Forwarded-For"]. • If sip_header_name is cloudflare, sip_header_list is ["CF-Connecting-IP", "X-Forwarded-For"]. • If sip_header_name is akamai, sip_header_list is ["True-Client-IP"]. • If sip_header_name is custom, you can customize a value.
timestamp	Long	Specifies the time when a domain name is created.

Examples

www.a.com is used as an example.

- Request example

```
{
  "certificate_id": "07fb6809a89241fca86ac6f69e34963d",
  "server": [
    {"client_protocol": "HTTPS", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "8080"},
    {"client_protocol": "HTTP", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "80"}
  ],
  "proxy": true,
  "sip_header_name": "default",
  "sip_header_list": ["X-Forwarded-For"]
}
```

- Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "hostname": "www.a.com",

  "cname": "3249d21e5eb34d21be12fdc817fcb67d.wafcloud.com",
  "txt_code": "3249d21e5eb34d21be12fdc817fcb67d",
  "sub_domain": "3249d21e5eb34d21be12fdc817fcb67d.www.a.com",
  "policy_id": "xxxxxxxxxxxxxxx",
  "certificate_id": "xxxxxxxxxxxxxxxxxxxx",
  "protect_status": 0,
  "access_status": 0,
  "protocol": "HTTP,HTTPS",

  "server": [
    {"client_protocol": "HTTPS", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "443"},
    {"client_protocol": "HTTP", "server_protocol": "HTTP", "address": "X.X.X.X", "port": "80"}
  ],
  "proxy": true,
  "sip_header_name": "default",
  "sip_header_list": ["X-Forwarded-For"],
  "timestamp": 1499817600
}
```

Status Code

Table 4-29 describes the normal status code returned by the API.

Table 4-29 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.2.5 Deleting a Domain Name

Function Description

This API is used to delete a domain name.

NOTICE

Deleting a domain name relies on some components, such as DNS. These components may cause deletion failed.

URI

- URI format
DELETE /v1/{project_id}/waf/instance/{instance_id}?keepPolicy={keepPolicy}
- Parameter description

Table 4-30 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID or domain ID.
keepPolicy	No	Boolean	Specifies whether to retain the policy when deleting a domain name. <ul style="list-style-type: none">• true: The policy is retained.• false: The policy is deleted.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-31](#) describes the normal status code returned by the API.

Table 4-31 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.3 Certificate Management

4.1.3.1 Obtaining the Certificate List

Function Description

This API is used to obtain the certificate list of a user.

URI

- URI format
GET /v1/{project_id}/waf/certificate?offset={offset}&limit={limit}
- Parameter description

Table 4-32 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 . If limit is -1 , one page with 65535 records is displayed.

Request

Request parameters

None

Response

Response parameters

Table 4-33 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of certificates.
items	Table 3	Specifies the certificate objects.

Table 4-34 items

Parameter	Type	Description
id	String	Specifies the certificate ID.
name	String	Specifies the certificate name.
expireTime	Long	Specifies the time when the certificate expires.
timestamp	Long	Specifies the time when the certificate is uploaded.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [
    {
      "id": "388a7789d55b41d1918b3088a8f1e7f3",
      "name": "cert_a",
      "timestamp": 1544756441859,
      "expireTime": 1545978662373
    }, {
      "id": "388a7789d55b41d1918b3088a8f1e7f4",
      "name": "cert_b",
      "timestamp": 1544756441859,
      "expireTime": 1545978662356
    }
  ]
}
```

Status Code

[Table 4-35](#) describes the normal status code returned by the API.

Table 4-35 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.3.2 Uploading a Certificate

Function Description

This API is used to upload a certificate.

URI

- URI format
POST /v1/{project_id}/waf/certificate
- Parameter description

Table 4-36 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Request

Request parameters

Table 4-37 Parameter description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the certificate name. The maximum length is 256 characters. Only digits, letters, underscores (_), and hyphens (-) are allowed.

Parameter	Mandatory	Type	Description
content	Yes	String	<p>Specifies the certificate content.</p> <p>NOTE</p> <ul style="list-style-type: none"> The following is an example of the obtained certificate content: <pre>-----BEGIN CERTIFICATE----- MIIIDezCCAmOgAwIBAgIJAMJc- dOLsrN3iMA0GCSqGSIb3DQEBCwUA MFQxCzAJBgNV ... 8qh1Vpk2FXoadOVze2fQFLBkkB7LPEx j8Nrf76CJEA== -----END CERTIFICATE-----</pre> Line endings are replaced with <code>\n</code> by default before uploading the certificate content. For example: <pre>-----BEGIN CERTIFICATE----- \nMIIIDezCCAmOgAwIBAgIJAMJc- \dOLsrN3iMA0GCSqGSIb3DQEBCwUA MFQxCzAJBgNV\n... \n8qh1Vpk2FXoadOVze2fQFLBkkB7LP Exj8Nrf76CJEA==\n-----END CERTIFICATE-----</pre>
key	Yes	String	<p>Specifies the private key.</p> <p>NOTE</p> <ul style="list-style-type: none"> The following is an example of the obtained private key: <pre>-----BEGIN RSA PRIVATE KEY----- MIIIEowIBAAKCAQEAsj2QPAwXYcPDH0 mvf6Jbej6RGgYlb4EFMS85BjKrKNPOT qZf ... 4j0RY9DeUgSLdy625BBmew2it9l/ NynIScG4Ow6w8Bu4iBANGv94 -----END RSA PRIVATE KEY-----</pre> Line endings are replaced with <code>\n</code> by default before uploading the private key. For example: <pre>-----BEGIN RSA PRIVATE KEY----- \nMIIIEowIBAAKCAQEAsj2QPAwXYcPD H0mvf6Jbej6RGgYlb4EFMS85BjKrKNP OTqZf\n... \n4j0RY9DeUgSLdy625BBmew2it9l/ NynIScG4Ow6w8Bu4iBANGv94\n----- END RSA PRIVATE KEY-----</pre>

Response

Response parameters

Table 4-38 Parameter description

Parameter	Type	Description
id	String	Specifies the certificate ID.
name	String	Specifies the certificate name.
expireTime	Long	Specifies the time when the certificate expires.
timestamp	Long	Specifies the time when the certificate is uploaded.

Examples

A certificate named **cert_a** is used as an example.

- Request example

```
{
  "name": "cert_a",
  "content": "-----BEGIN CERTIFICATE-----
\nMIIIDezCCAmOgAwIBAgIJAMJcdOLsrN3iMA0GCSqGSIb3DQEBCwUAMFQxCzAJBgNV\n
\n8qh1Vpk2FXoadOVze2fQFLBkkB7LPEXj8Nrf76CJEA==\n-----END CERTIFICATE-----",
  "key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIIEowIBAAKCAQEAsj2QPAwXYcPDH0mvf6Jbej6RGgYIb4EFMS85BjKrKNPOTqZf\n
\n4j0RY9DeUgSLdy625BBmew2it9l/NynlScG4Ow6w8Bu4iBANGv94\n-----END RSA PRIVATE KEY-----"
}
```

- Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "name": "cert_b",
  "expireTime": 1565467166765,
  "timestamp": 1545467166765
}
```

Status Code

Table 4-39 describes the normal status code returned by the API.

Table 4-39 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.3.3 Querying a Certificate

Function Description

This API is used to query information about a certificate.

URI

- URI format
GET /v1/{project_id}/waf/certificate/{certificate_id}
- Parameter description

Table 4-40 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
certificate_id	Yes	String	Specifies the certificate ID.

Request

Request parameters

None

Response

Response parameters

Table 4-41 Parameter description

Parameter	Type	Description
id	String	Specifies the certificate ID.
name	String	Specifies the certificate name.
expireTime	Long	Specifies the time when the certificate expires.
timestamp	Long	Specifies the time when the certificate is uploaded.

Example

A certificate named **cert_b** is used as an example.

Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "name": "cert_b",
  "timestamp": 1545467166765,
  "expireTime": 1555467166765
}
```

Status Code

Table 4-42 describes the normal status code returned by the API.

Table 4-42 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.3.4 Changing the Name of a Certificate

Function Description

This API is used to change the name of a certificate.

URI

- URI format
PUT /v1/{project_id}/waf/certificate/{certificate_id}
- Parameter description

Table 4-43 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
certificate_id	Yes	String	Specifies the certificate ID.

Request

Request parameters

Table 4-44 Parameter description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the certificate name. The maximum length is 256 characters. Only digits, letters, underscores (_), and hyphens (-) are allowed.

Response

Response parameters

Table 4-45 Parameter description

Parameter	Type	Description
id	String	Specifies the certificate ID.
name	String	Specifies the certificate name.
expireTime	Long	Specifies the time when the certificate expires.
timestamp	Long	Specifies the time when the certificate is uploaded.

Examples

A certificate named **cert_a** is used as an example.

- Request example

```
{
  "name": "cert_b"
}
```

- Response example

```
{
  "id": "388a7789d55b41d1918b3088a8f1e7f3",
  "name": "cert_b",
  "expireTime": 1565467166765,
  "timestamp": 1545467166765
}
```

Status Code

Table 4-46 describes the normal status code returned by the API.

Table 4-46 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.3.5 Deleting a Certificate

Function Description

This API is used to delete a certificate not associated with any domain name.

URI

- URI format
DELETE /v1/{project_id}/waf/certificate/{certificate_id}

- Parameter description

Table 4-47 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
certificate_id	Yes	String	Specifies the certificate ID.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-48](#) describes the normal status code returned by the API.

Table 4-48 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.3.6 Querying the Domain Name that A Certificate Secures

Function Description

This API is used to query the domain name that a certificate secures.

URI

- URI format
GET /v1/{project_id}/waf/certificate/{certificate_id}/host
- Parameter description

Table 4-49 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
certificate_id	Yes	String	Specifies the certificate ID.

Request

Request parameters

None

Response

Response parameters

Table 4-50 Parameter description

Parameter	Type	Description
hostname	Array	Specifies the domain names.

Example

Response example

```
{
  "hostname": ["www.a.com", "www.b.com"]
}
```

Status Code

[Table 4-51](#) describes the normal status code returned by the API.

Table 4-51 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.4 Protection Status and Domain Setup

4.1.4.1 Switching the WAF Mode

Function Description

This API is used to switch the WAF mode.

URI

- URI format
PUT /v1/{project_id}/waf/instance/{instance_id}/protect_status
- Parameter description

Table 4-52 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID.

Request

Request parameters

Table 4-53 Parameter description

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	Specifies the WAF mode of a domain name. <ul style="list-style-type: none">• 1: enabled.• 0: disabled.• -1: bypassed. That is, a client sends a request to the server without passing through WAF.

Response

Response parameters

Table 4-54 Parameter description

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	Specifies the WAF mode of a domain name. <ul style="list-style-type: none"> • 1: enabled. • 0: disabled. • -1: bypassed. That is, a client sends a request to the server without passing through WAF.

Examples

protect_status with a value of **1** is used as an example.

- Request example

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

- Response example

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

Status Code

[Table 4-55](#) describes the normal status code returned by the API.

Table 4-55 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.4.2 Connecting a Domain Name to WAF

Function Description

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

URI

- URI format
PUT /v1/{project_id}/waf/instance/{instance_id}/access_status
- Parameter description

Table 4-56 Path parameters

Parameter	Mandatory	Type	Description
projecte_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID.

Request

Request parameters

Table 4-57 Parameter description

Parameter	Mandatory	Type	Description
access_status	Yes	Integer	Specifies whether a domain name is connected to WAF. 1: The domain name is connected to WAF.

Response

Response parameters

Table 4-58 Parameter description

Parameter	Mandatory	Type	Description
access_status	Yes	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> 1: The domain name is connected to WAF. 0: The domain name is not connected to WAF.
protect_statuses	Yes	Integer	Specifies the WAF mode of a domain name. <ul style="list-style-type: none"> 1: enabled. 0: disabled. -1: bypassed. That is, a client sends a request to the server without passing through WAF.

Examples

`access_status` with a value of `1` is used as an example.

- Request example

```
{  
  "access_status": 1  
}
```

- Response examples

The following shows the response if the domain name is connected to WAF:

```
{  
  "access_status": 1,  
  "protect_status": 1  
}
```

The following shows the response if connection fails:

```
{  
  "access_status": 0,  
  "protect_status": 0  
}
```

Status Code

[Table 4-59](#) describes the normal status code returned by the API.

Table 4-59 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5 Policies

4.1.5.1 Querying All Policies

Function Description

This API is used to query the list of policies.

URI

- URI format
GET /v1/{project_id}/waf/policy?
policyname={policyname}&offset={offset}&limit={limit}
- Parameter description

Table 4-60 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policyname	No	String	Specifies the policy name. GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip?offset={offset}&limit={limit}
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Value range: (0, 10] . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-61 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of policies.
items	Table 3	Specifies the policy objects.

Table 4-62 items

Parameter	Type	Description
id	String	Specifies the instance ID.
name	String	Specifies the policy name.
options	Table 4	Specifies whether a protection rule is enabled.

Parameter	Type	Description
action	Table 5	<p>Specifies the mode of Basic Web Protection.</p> <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.
level	Integer	<p>Specifies the protection level.</p> <ul style="list-style-type: none"> • 1: low WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: medium By default, 2 is selected. In this level, WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. • 3: high WAF detects Netcat, Nmap, kill commands, and more. If you need stricter protection, select 3 to avoid unreported vulnerabilities but you may see more vulnerabilities that in fact unlikely exist.
full_detection	Boolean	<p>Specifies the detection mode in Precise Protection.</p> <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.
hosts	Array	Specifies the domain IDs.

Parameter	Type	Description
timestamp	Long	Specifies the time when a policy is created.

Table 4-63 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.

Parameter	Type	Description
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
webshell	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
custom	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
ignore	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Table 4-64 action

Parameter	Type	Description
category	String	Specifies the mode of Basic Web Protection. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [
    {
      "id": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "name": "policy_1",
      "action": {
        "category": "block"
      },
      "options": {
        "webattack": true,
        "common": true,
        "crawler": true,
        "crawler_engine": true,
        "crawler_scanner": true,
        "crawler_script": true,
        "crawler_other": true,
        "webshell": true,
        "cc": true,
        "custom": true,
        "whiteblackip": true,
        "ignore": true,
        "privacy": true,
        "antitamper": true
      },
      "level": 1,
      "full_detection": false,
      "hosts": ["1111111111111111", "2222222222222222"],
      "timestamp": 1499817612
    }, {
      "id": "xxxxxxxxxxxxxxxxxxxxxxxx",
      "name": "policy_2",
      "action": {
        "category": "block"
      },
      "options": {
        "webattack": true,
        "common": true,
        "crawler": true,
        "crawler_engine": true,
        "crawler_scanner": true,
        "crawler_script": true,
        "crawler_other": true,
        "webshell": true,
        "cc": true,
        "custom": true,
        "whiteblackip": true,

```

```

        "ignore": true,
        "privacy": true,
        "antitamper": true
    },
    "level": 1,
    "full_detection": false,
    "hosts": ["111111111111111111", "22222222222222222222"],
    "timestamp": 1499817612
  }
]

```

Status Code

[Table 4-65](#) describes the normal status code returned by the API.

Table 4-65 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5.2 Creating a Policy

Function Description

This API is used to create a policy.

URI

- URI format
POST /v1/{project_id}/waf/policy
- Parameter description

Table 4-66 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Request

Request parameters

Table 4-67 Parameter description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the policy name. The maximum length is 256 characters. Only digits, letters, underscores (_), and hyphens (-) are allowed.

Response

Response parameters

Table 4-68 Parameter description

Parameter	Type	Description
id	String	Specifies the instance ID.
name	String	Specifies the policy name.
options	Table 4	Specifies whether a protection rule is enabled.
action	Table 5	Specifies the mode of Basic Web Protection. The default value is log . <ul style="list-style-type: none"> block: WAF blocks and logs detected attacks. log: WAF logs detected attacks only.
level	Integer	Specifies the protection level. <ul style="list-style-type: none"> 1: low 2: medium 3: high
full_detection	Boolean	Specifies the detection mode in Precise Protection.
hosts	Array	Specifies the domain IDs.
timestamp	Long	Specifies the time when a policy is created.

Table 4-69 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. By default, this function is disabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. By default, this function is disabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. By default, this function is disabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
webshell	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. By default, this function is disabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
custom	Boolean	Specifies whether Precise Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. By default, this function is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. By default, this function is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.

Parameter	Type	Description
ignore	Boolean	Specifies whether False Alarm Masking is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. By default, this function is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Table 4-70 action

Parameter	Type	Description
category	String	Specifies the mode of Basic Web Protection. The default value is log . <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.

Examples

A policy named **policy_1** is used as an example.

- Request example

```
{
  "name": "policy_1"
}
```

- Response example

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "policy_1",
  "action": {
    "category": "block"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": true,
    "crawler_scanner": true,
    "crawler_script": true,
    "crawler_other": true,
    "webshell": true,
    "cc": true,
  }
}
```

```

    "custom": true,
    "whiteblackip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true
  },
  "level": 1,
  "full_detection": false,
  "hosts": [],
  "timestamp": 1499817612
}

```

Status Code

[Table 4-71](#) describes the normal status code returned by the API.

Table 4-71 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5.3 Querying a Policy

Function Description

This API is used to query details about a policy.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}
- Parameter description

Table 4-72 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

None

Response

Response parameters

Table 4-73 Parameter description

Parameter	Type	Description
id	String	Specifies the instance ID.
name	String	Specifies the policy name.
action	Table 3	Specifies the protective action after a rule is matched. <ul style="list-style-type: none"> • block: block and log detected attacks. • log: only log detected attacks.
options	Table 4	Specifies the protection switches.
level	Integer	Specifies the protection level. <ul style="list-style-type: none"> • 1: low • 2: medium • 3: high
full_detection	Boolean	Specifies the detection mode in Precise Protection. <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.
hosts	Array	Specifies the domain IDs.
timestamp	Long	Specifies the time when a policy is created.

Table 4-74 action

Parameter	Type	Description
category	String	Specifies the protective action. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.

Table 4-75 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
webshell	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
custom	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
ignore	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Example

A policy named **policy_2** is used as an example.

Response example

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "policy_2",
  "action": {
    "category": "block"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": true,
    "crawler_scanner": true,
    "crawler_script": true,
    "crawler_other": true,
    "webshell": true,
    "cc": true,
    "custom": true,
    "whiteblackip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true
  },
  "level": 1,
  "full_detection": false,
  "hosts": ["1111111111111111", "2222222222222222"],
  "timestamp": 1499817612
}
```

Status Code

[Table 4-76](#) describes the normal status code returned by the API.

Table 4-76 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5.4 Applying a Policy to Domain Names

Function Description

This API is used to apply a policy to domain names.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/hosts
- Parameter description

Table 4-77 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-78 Parameter description

Parameter	Mandatory	Type	Description
hosts	Yes	List	Specifies the domain IDs.

Response

Response parameters

Table 4-79 Parameter description

Parameter	Type	Description
id	String	Specifies the policy ID.
name	String	Specifies the policy name.
action	Table 4	Specifies the protective action after a rule is matched. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.
options	Table 5	Specifies the protection switches.
level	Integer	Specifies the protection level. <ul style="list-style-type: none"> • 1: low • 2: medium • 3: high

Parameter	Type	Description
full_detection	Boolean	Specifies the detection mode in Precise Protection. <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.
hosts	Array	Specifies the domain IDs.
timestamp	Long	Specifies the time when a policy is created.

Table 4-80 action

Parameter	Type	Description
category	String	Specifies the protective action. <ul style="list-style-type: none"> • block: block and log detected attacks. • log: only log detected attacks.

Table 4-81 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
webshell	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
custom	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
ignore	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Examples

policy_2 applying to domain IDs **de06e61829494691b51979b9a03d5dcb** and **563972cc974b43848c73ed1a86268136** is used as an example.

- Request example

```
{
  "hosts": [
    "de06e61829494691b51979b9a03d5dcb",
    "563972cc974b43848c73ed1a86268136"
  ]
}
```

- Response example

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "policy_2",
  "action": {
    "category": "block"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": true,
    "crawler_scanner": true,
    "crawler_script": true,
    "crawler_other": true,
    "webshell": true,
    "cc": true,
    "custom": true,
    "whiteblackip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true
  }
}
```

```
},  
"level": 1,  
"full_detection": false,  
"hosts": ["de06e61829494691b51979b9a03d5dcb", "563972cc974b43848c73ed1a86268136"],  
"timestamp": 1499817612  
}
```

Status Code

[Table 4-82](#) describes the normal status code returned by the API.

Table 4-82 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5.5 Updating a Policy

Function Description

This API is used to update a policy.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}
- Parameter description

Table 4-83 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-84 Parameter description

Parameter	Mandatory	Type	Description
name	No	String	Specifies the policy name.

Parameter	Mandatory	Type	Description
action	No	Table 3	Specifies the protective action after a rule is matched. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.
options	No	Table 4	Specifies the protection switches.
level	No	Integer	Specifies the protection level. <ul style="list-style-type: none"> • 1: low • 2: medium • 3: high
full_detection	No	Boolean	Specifies the detection mode in Precise Protection. <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.

Table 4-85 action

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the protective action. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.

Table 4-86 options

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
common	No	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler	No	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_engine	No	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_scanner	No	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_script	No	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
crawler_other	No	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Mandatory	Type	Description
webshell	No	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
cc	No	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
custom	No	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
whiteblackip	No	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
privacy	No	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
Ignore	No	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.
antitamper	No	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none">• true: enabled.• false: disabled.

Response

Response parameters

Table 4-87 Parameter description

Parameter	Type	Description
id	String	Specifies the instance ID.

Parameter	Type	Description
name	String	Specifies the policy name.
options	Table 9	Specifies the protection switches.
action	Table 6	Specifies the mode of Basic Web Protection. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.
level	Integer	Specifies the protection level. <ul style="list-style-type: none"> • 1: low • 2: medium • 3: high
full_detection	Boolean	Specifies the detection mode in Precise Protection. <ul style="list-style-type: none"> • true: full detection. Full detection finishes all threat detections before blocking requests that meet Precise Protection specified conditions. • false: instant detection. Instant detection immediately ends threat detection after blocking a request that meets Precise Protection specified conditions.
hosts	Array	Specifies the domain IDs.
timestamp	Long	Specifies the time when a policy is created.

Table 4-88 action

Parameter	Type	Description
category	String	Specifies the protective action. <ul style="list-style-type: none"> • block: WAF blocks and logs detected attacks. • log: WAF logs detected attacks only.

Table 4-89 options

Parameter	Type	Description
webattack	Boolean	Specifies whether Basic Web Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Type	Description
common	Boolean	Specifies whether General Check in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler	Boolean	Specifies whether the master crawler detection switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_engine	Boolean	Specifies whether the Search Engine switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_scanner	Boolean	Specifies whether the Scanner switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_script	Boolean	Specifies whether the Script Tool switch in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
crawler_other	Boolean	Specifies whether detection of other crawlers in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
webshell	Boolean	Specifies whether webshell detection in Basic Web Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.
cc	Boolean	Specifies whether CC Attack Protection is enabled. <ul style="list-style-type: none"> ● true: enabled. ● false: disabled.

Parameter	Type	Description
custom	Boolean	Specifies whether Precise Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
whiteblackip	Boolean	Specifies whether Blacklist and Whitelist is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
privacy	Boolean	Specifies whether Data Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
Ignore	Boolean	Specifies whether False Alarm Masking is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
antitamper	Boolean	Specifies whether Web Tamper Protection is enabled. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Examples

A policy named **policy_1** is used as an example.

- Request example

```
{
  "name": "policy_1",
  "action": {
    "category": "block"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": true,
    "crawler_scanner": true,
    "crawler_script": true,
    "crawler_other": true,
    "webshell": true,
    "cc": true,
    "custom": true,
    "whiteblackip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true
  },
  "level": 1,
  "full_detection": false
}
```

- Response example

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "policy_1",
  "action": {
    "category": "block"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": true,
    "crawler_scanner": true,
    "crawler_script": true,
    "crawler_other": true,
    "webshell": true,
    "cc": true,
    "custom": true,
    "whiteblackip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true
  },
  "level": 1,
  "full_detection": false,
  "hosts": [],
  "timestamp": 1499817612
}
```

Status Code

Table 4-90 describes the normal status code returned by the API.

Table 4-90 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.5.6 Deleting a Policy

Function Description

This API is used to delete a policy.

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}
- Parameter description

Table 4-91 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-92](#) describes the normal status code returned by the API.

Table 4-92 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.6 Blacklist and Whitelist Rules

4.1.6.1 Querying Blacklist and Whitelist Rules

Function Description

This API is used to query all blacklist and whitelist rules.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip?offset={offset}&limit={limit}
- Parameter description

Table 4-93 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-94 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of rules.
items	Table 3	Specifies the blacklist or whitelist rule objects.

Table 4-95 items

Parameter	Type	Description
id	String	Specifies the ID of a blacklist or whitelist rule.
policy_id	String	Specifies the ID of the policy to which the rule belongs.

Parameter	Type	Description
addr	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist
timestamp	Long	Specifies the time when a blacklist or whitelist rule is added.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
    "policy_id": "ertr45c0f96784ec8abd8ba61a98064ef",
    "addr": "X.X.0.125",
    "white": 1,
    "timestamp": 1499817600
  }, {
    "id": "44d887434169475794b2717438f7fa78",
    "policy_id": "ertr45c0f96784ec8abd8ba61a98064ef",
    "addr": "X.X.0.125",
    "white": 0,
    "timestamp": 1499817601
  }
]
```

Status Code

Table 4-96 describes the normal status code returned by the API.

Table 4-96 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.6.2 Adding a Blacklist or Whitelist Rule

Function Description

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

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/whiteblackip
- Parameter description

Table 4-97 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-98 Parameter description

Parameter	Mandatory	Type	Description
addr	Yes	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	No	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist If you do not configure the white parameter, the value is Blacklist by default.

Response

Response parameters

Table 4-99 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a blacklist or whitelist rule.
policy_id	String	Specifies the policy ID.
addr	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist If you do not configure the white parameter, the value is Blacklist by default.
timestamp	Long	Specifies the time when a blacklist or whitelist rule is added.

Examples

X.X.0.125 is used as an example.

- Request example

```
{
  "addr": "X.X.0.125",
  "white": 1
}
```

- Response example

```
{
  "id": "44d887434169475794b2717438f7fa78",
  "policy_id": "ertr45c0f96784ec8abd8ba61a98064ef",
  "addr": "X.X.0.125",
  "white": 1,
  "timestamp": 1499817600
}
```

Status Code

Table 4-100 describes the normal status code returned by the API.

Table 4-100 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.6.3 Deleting a Blacklist or Whitelist Rule

Function Description

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

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{whiteblackip_rule_id}
- Parameter description

Table 4-101 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
whiteblackip_rule_id	Yes	String	Specifies the ID of a blacklist or whitelist rule.

Request

Request

None

Response

Response parameters

None

Status Code

[Table 4-102](#) describes the normal status code returned by the API.

Table 4-102 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.6.4 Querying a Blacklist or Whitelist Rule

Function Description

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

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{whiteblackip_rule_id}
- Parameter description

Table 4-103 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
whiteblackip_rule_id	Yes	String	Specifies the ID of a blacklist or whitelist rule.

Request

Request parameters

None

Response

Response parameters

Table 4-104 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a blacklist or whitelist rule.
policy_id	String	Specifies the policy ID.
addr	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist

Parameter	Type	Description
timestamp	Long	Specifies the time when a blacklist or whitelist rule is added.

Example

X.X.0.125 is used as an example.

Response example

```
{
  "id": "44d887434169475794b2717438f7fa78",
  "policy_id": "ertr45c0f96784ec8abd8ba61a98064ef",
  "addr": "X.X.0.125",
  "white": 0,
  "timestamp": 1499817600
}
```

Status Code

[Table 4-105](#) describes the normal status code returned by the API.

Table 4-105 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.6.5 Updating a Blacklist or Whitelist Rule

Function Description

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

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{whiteblackip_rule_id}
- Parameter description

Table 4-106 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Specifies the policy ID.
whiteblackip_rule_id	Yes	String	Specifies the ID of a blacklist or whitelist rule.

Request

Request parameters

Table 4-107 Parameter description

Parameter	Mandatory	Type	Description
addr	Yes	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	No	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist

Response

Response parameters

Table 4-108 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a blacklist or whitelist rule.
policy_id	String	Specifies the policy ID.
addr	String	Specifies the public IP address or range (IP address and subnet mask). For example, <i>X.X.0.125</i> or <i>X.X.6.0/24</i> .
white	Integer	Specifies the IP address type. <ul style="list-style-type: none"> • 1: Whitelist • 0: Blacklist If you do not configure the white parameter, the value is Blacklist by default.

Parameter	Type	Description
timestamp	Long	Specifies the time when a blacklist or whitelist rule is added.

Examples

`X.X.0.125` is used as an example.

- Request example

```
{
  "addr": "X.X.0.125",
  "white": 1
}
```

- Response example

```
{
  "id": "44d887434169475794b2717438f7fa78",
  "policy_id": "ertr45c0f96784ec8abd8ba61a98064ef",
  "addr": "X.X.0.125",
  "white": 1,
  "timestamp": 1499817600
}
```

Status Code

[Table 4-109](#) describes the normal status code returned by the API.

Table 4-109 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.7 CC Attack Protection Rules

4.1.7.1 Querying CC Attack Protection Rules

Function Description

This API is used to query all CC attack protection rules in a policy.

URI

- URI format
GET `/v1/{project_id}/waf/policy/{policy_id}/cc?offset={offset}&limit={limit}`
- Parameter description

Table 4-110 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-111 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of CC attack protection rules in a policy.
items	Table 3	Specifies the CC attack protection rule objects.

Table 4-112 items

Parameter	Type	Description
id	String	Specifies the ID of a CC attack protection rule.
policy_id	String	Specifies the ID of the policy to which the rule belongs.

Parameter	Type	Description
path	String	<p>Specifies the URL to which the rule applies, excluding a domain name.</p> <ul style="list-style-type: none"> • Prefix match: The path ending with * indicates that the path is used as a prefix. For example, if the path to be protected is /admin/test.php or /adminabc, set Path to /admin*. • Exact match: The path to be entered must match the path to be protected. If the path to be protected is /admin, set url to /admin.
limit_num	Integer	Specifies the number of requests allowed from a web visitor in a rate limiting period.
limit_period	Integer	Specifies the rate limiting period.
lock_time	Integer	Specifies the lock duration. The value ranges from 0 seconds to 2³² seconds.
tag_type	String	<p>Specifies the rate limit mode.</p> <ul style="list-style-type: none"> • ip: A web visitor is identified by the IP address. • cookie: A web visitor is identified by the cookie key value. • other: A web visitor is identified by the Referer field (user-defined request source).
tag_index	String	If tag_type is set to cookie , this parameter indicates cookie name.
tag_condition	Table 4	Specifies the Referer (customized request source) field. This field is returned when tag_type is set to other .

Parameter	Type	Description
action	Table 5	Specifies the action taken when the number of requests reaches the upper limit.
timestamp	Long	Specifies the time when a CC attack protection rule is added.
default	Boolean	Specifies whether the rule is the default CC attack protection rule. <ul style="list-style-type: none"> • true: The rule is the default CC attack protection rule created by the system when creating a domain name. • false: The rule is created by users.

Table 4-113 tag_condition

Parameter	Type	Description
category	String	Specifies the category. The value is Referer .
contents	List	Specifies the category content. For example, http://www.xxx.com .

Table 4-114 action

Parameter	Type	Description
category	String	Specifies the action. The default value is block . <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. The default value is block.

Parameter	Type	Description
detail	Table 6	Specifies the action details. If detail is null , the default block page is displayed by default.

Table 4-115 detail

Parameter	Type	Description
response	Table 7	Specifies the returned page.

Table 4-116 response

Parameter	Type	Description
content_type	String	Specifies the type of the returned page. The options are application/json , text/html , and text/xml .
content	String	Specifies the content of the returned page.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
    "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
    "path": "/abc1",
    "limit_num": 10,
    "limit_period": 60,
    "lock_time": 10,
    "tag_type": "cookie",
    "tag_index": "sesssionid",
    "action": {
      "category": "block",
      "detail": {
        "response": {
          "content_type": "application/json",
          "content": "{\"error\": \"forbidden\"}"
        }
      }
    }
  }],
  "timestamp": 1499817600,
  "default": true
}, {
```

```

    "id": "3d7bea768b10480984f98c6b69d43d0f",
    "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
    "path": "/efgh",
    "limit_num": 10,
    "limit_period": 60,
    "lock_time": 5,
    "tag_type": "other",
    "tag_condition": {
      "category": "referer",
      "contents": ["http://www.example.com"]
    }
    "action": {
      "category": "block",
    },
    "timestamp": 1499817600,
    "default": true
  }
]
}

```

Status Code

Table 4-117 describes the normal status code returned by the API.

Table 4-117 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.7.2 Adding a CC Attack Protection Rule

Function Description

This API is used to add a CC attack protection rule.

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/cc
- Parameter description

Table 4-118 Path parameters

Parameter	Mandator y	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-119 Parameter description

Parameter	Mandatory	Type	Description
path	Yes	String	<p>Specifies the URL to which the rule applies, excluding a domain name.</p> <ul style="list-style-type: none">• Prefix match: The path ending with * indicates that the path is used as a prefix. For example, if the path to be protected is /admin/test.php or /adminabc, set Path to /admin*.• Exact match: The path to be entered must match the path to be protected. If the path to be protected is /admin, set url to /admin.
limit_num	No	Integer	<p>Specifies the number of requests allowed from a web visitor in a rate limiting period. Value range: (0, 2³²). The default value is 1.</p>
limit_period	No	Integer	<p>Specifies the rate limiting period. Value range: (0, 2³²), in seconds. The default value is 1.</p>
lock_time	No	Integer	<p>Specifies the lock duration. The value ranges from 0 seconds to 2³² seconds.</p>

Parameter	Mandatory	Type	Description
tag_type	Yes	String	Specifies the rate limit mode. <ul style="list-style-type: none"> • ip: A web visitor is identified by the IP address. • cookie: A web visitor is identified by the cookie key value. • other: A web visitor is identified by the Referer field (user-defined request source).
tag_index	No	String	If tag_type is set to cookie , this parameter indicates cookie name.
tag_condition	No	Table 3	Specifies the Referer (customized request source) field. This field is mandatory when tag_type is set to other .
action	Yes	Table 4	Specifies the action taken when the number of requests reaches the upper limit.

Table 4-120 tag_condition

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the category. The value is Referer . This parameter is mandatory when the tag_condition field is transferred.

Parameter	Mandatory	Type	Description
contents	Yes	List	<p>Specifies the category content.</p> <p>The format is as follows: http://www.example.com/path.</p> <p>This parameter is mandatory when the tag_condition field is transferred. Currently, only one value is accepted.</p>

Table 4-121 action

Parameter	Mandatory	Type	Description
category	Yes	String	<p>Specifies the action. The default value is block.</p> <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. <p>The default value is block. If tag_type is set to other, this parameter value can only be block.</p>
detail	No	Table 5	<p>Specifies the action details. If detail is null, the default block page is displayed by default.</p> <p>This parameter is not required if category is set to captcha.</p> <p>This parameter is required if category is set to block.</p>

Table 4-122 detail

Parameter	Mandatory	Type	Description
response	Yes	Table 6	Specifies the returned page.

Table 4-123 response

Parameter	Mandatory	Type	Description
content_type	Yes	String	Specifies the type of the returned page. The options are application/json , text/html , and text/xml . The default value is application/json .
content	Yes	String	Specifies the content of the returned page.

Response

Response parameters

Table 4-124 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a CC attack protection rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the rule applies.
limit_num	Integer	Specifies the number of requests allowed from a web visitor in a rate limiting period.
limit_period	Integer	Specifies the rate limiting period.
lock_time	Integer	Specifies the lock duration. The value ranges from 0 seconds to 2³² seconds.

Parameter	Type	Description
tag_type	String	Specifies the rate limit mode. <ul style="list-style-type: none"> • ip: A web visitor is identified by the IP address. • cookie: A web visitor is identified by the cookie key value. • other: A web visitor is identified by the Referer field (user-defined request source).
tag_index	String	If tag_type is set to cookie , this parameter indicates cookie name.
tag_condition	Table 8	Specifies the Referer (customized request source) field. This field is returned when tag_type is set to other .
action	Table 9	Specifies the action taken when the number of requests reaches the upper limit.
timestamp	Long	Specifies the time when a CC attack protection rule is added.
default	Boolean	Specifies whether the rule is the default CC attack protection rule. <ul style="list-style-type: none"> • true: The rule is the default CC attack protection rule created by the system when creating a domain name. • false: The rule is created by users.

Table 4-125 tag_condition

Parameter	Type	Description
category	String	Specifies the category. The value is Referer .
contents	List	Specifies the category content.

Table 4-126 action

Parameter	Type	Description
category	String	Specifies the action. The default value is block . <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. The default value is block . If tag_type is set to other , this parameter value can only be block .
detail	Table 10	Specifies the action details. If detail is null , the default block page is displayed by default.

Table 4-127 detail

Parameter	Type	Description
response	Table 11	Specifies the returned page.

Table 4-128 response

Parameter	Type	Description
content_type	String	Specifies the type of the returned page. The options are application/json , text/html , and text/xml .
content	String	Specifies the content of the returned page.

Examples

- Request example

```
{
  "path": "/abc1",
  "limit_num": 10,
  "limit_period": 60,
```



```

"lock_time": 10,
"tag_type": "cookie",
"tag_index": "sesssionid",
"action": {
  "category": "block",
  "detail": {
    "response": {
      "content_type": "application/json",
      "content": "{\"error\": \"forbidden\"}"
    }
  }
}
}
}

```

- Response example

```

{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "path": "/abc1",
  "limit_num": 10,
  "limit_period": 60,
  "lock_time": 10,
  "tag_type": "cookie",
  "tag_index": "sesssionid",
  "action": {
    "category": "block",
    "detail": {
      "response": {
        "content_type": "application/json",
        "content": "{\"error\": \"forbidden\"}"
      }
    }
  },
  "timestamp": 1499817600,
  "default": false
}

```

Status Code

Table 4-129 describes the normal status code returned by the API.

Table 4-129 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.7.3 Deleting a CC Attack Protection Rule

Function Description

This API is used to delete a CC attack protection rule.

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/cc/{ccrule_id}

- Parameter description

Table 4-130 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ccrule_id	Yes	String	Specifies the ID of a CC attack protection rule.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-131](#) describes the normal status code returned by the API.

Table 4-131 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.7.4 Querying a CC Attack Protection Rule

Function Description

This API is used to query details about a CC attack protection rule.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/cc/{ccrule_id}
- Parameter description

Table 4-132 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ccrule_id	Yes	String	Specifies the ID of a CC attack protection rule.

Request

Request parameters

None

Response

Response parameters

Table 4-133 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a CC attack protection rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the rule applies, excluding a domain name.
limit_num	Integer	Specifies the number of requests allowed from a web visitor in a rate limiting period.
limit_period	Integer	Specifies the rate limiting period.
lock_time	Integer	Specifies the lock duration. The value ranges from 0 seconds to 2³² seconds.

Parameter	Type	Description
tag_type	String	Specifies the rate limit mode. <ul style="list-style-type: none"> • ip: A web visitor is identified by the IP address. • cookie: A web visitor is identified by the cookie key value. • other: A web visitor is identified by the Referer field (user-defined request source).
tag_index	String	If tag_type is set to cookie , this parameter indicates cookie name.
tag_condition	Table 3	Specifies the Referer (customized request source) field. This field is returned when tag_type is set to other .
action	Table 4	Specifies the action taken when the number of requests reaches the upper limit.
timestamp	Long	Specifies the time when a CC attack protection rule is added.
default	Boolean	Specifies whether the rule is the default CC attack protection rule. <ul style="list-style-type: none"> • true: The rule is the default CC attack protection rule created by the system when creating a domain name. • false: The rule is created by users.

Table 4-134 tag_condition

Parameter	Type	Description
category	String	Specifies the category. The value is Referer .
contents	List	Specifies the category content.

Table 4-135 action

Parameter	Type	Description
category	String	Specifies the action. The default value is block . <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. The default value is block . If tag_type is set to other , this parameter value can only be block .
detail	Table 5	Specifies the action details. If detail is null , the default block page is displayed by default.

Table 4-136 detail

Parameter	Type	Description
response	Table 6	Specifies the returned page.

Table 4-137 response

Parameter	Type	Description
content_type	String	Specifies the type of the returned page. The options are application/json , text/html , and text/xml .
content	String	Specifies the content of the returned page.

Example

- Response example

```
{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "path": "/abc1",
```

```

"limit_num": 10,
"limit_period": 60,
"lock_time": "",
"tag_type": "cookie",
"tag_index": "sessionid",
"action": {
  "category": "block",
  "detail": {
    "response": {
      "content_type": "application/json",
      "content": "{\"error\": \"forbidden\"}"
    }
  }
},
"timestamp": 1499817600,
"default": false
}

```

Status Code

[Table 4-138](#) describes the normal status code returned by the API.

Table 4-138 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.7.5 Updating a CC Attack Protection Rule

Function Description

This API is used to update a CC attack protection rule.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/cc/{ccrule_id}
- Parameter description

Table 4-139 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ccrule_id	Yes	String	Specifies the ID of a CC attack protection rule.

Request

Request parameters

Table 4-140 Parameter description

Parameter	Mandatory	Type	Description
path	Yes	String	Specifies the URL to which the rule applies, excluding a domain name.
limit_num	Yes	Integer	Specifies the number of requests allowed from a web visitor in a rate limiting period. The value ranges from 0 to 2^{32} .
limit_period	Yes	Integer	Specifies the rate limiting period. The value ranges from 0 seconds to 2^{32} seconds.
lock_time	No	Integer	Specifies the lock duration. The value ranges from 0 seconds to 2^{32} seconds.
tag_type	Yes	String	Specifies the rate limit mode. <ul style="list-style-type: none"> • ip: A web visitor is identified by the IP address. • cookie: A web visitor is identified by the cookie key value. • other: A web visitor is identified by the Referer field (user-defined request source).
tag_index	No	String	If tag_type is set to cookie , this parameter indicates cookie name.
tag_condition	No	Table 3	Specifies the Referer (customized request source) field. This field is mandatory when tag_type is set to other .

Parameter	Mandatory	Type	Description
action	Yes	Table 4	Specifies the action taken when the number of requests reaches the upper limit.

Table 4-141 tag_condition

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the category. The value is Referer . This parameter is mandatory when the tag_condition field is transferred.
contents	Yes	List	Specifies the category content. The format is as follows: http://www.example.com/path . This parameter is mandatory when the tag_condition field is transferred. Currently, only one value is accepted.

Table 4-142 action

Parameter	Mandatory	Type	Description
category	Yes	String	<p>Specifies the action. The default value is block.</p> <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. <p>The default value is block. If tag_type is set to other, this parameter value can only be block.</p>
detail	No	Table 5	<p>Specifies the action details. If detail is null, the default block page is displayed by default.</p> <p>This parameter is not required if category is set to captcha.</p> <p>This parameter is required if category is set to block.</p>

Table 4-143 detail

Parameter	Mandatory	Type	Description
response	Yes	Table 6	Specifies the returned page.

Table 4-144 response

Parameter	Mandatory	Type	Description
content_type	Yes	String	<p>Specifies the type of the returned page.</p> <p>The options are application/json, text/html, and text/xml.</p> <p>The default value is application/json.</p>

Parameter	Mandatory	Type	Description
content	Yes	String	Specifies the content of the returned page.

GET /v1/{project_id}/waf/policy/{policy_id}/custom?offset={offset}&limit={limit}

Response

Response parameters

Table 4-145 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a CC attack protection rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the rule applies, excluding a domain name.
limit_num	Integer	Specifies the number of requests allowed from a web visitor in a rate limiting period.
limit_period	Integer	Specifies the rate limiting period.
lock_time	Integer	Specifies the lock duration. The value ranges from 0 seconds to 2³² seconds.
tag_type	String	Specifies the tag object type. The value can be cookie , ip , or other .
tag_index	String	If tag_type is set to cookie , index indicates cookie name.
tag_condition	Table 8	This field is valid only when tag_type is set to other .
action	Table 9	Specifies the action taken when the number of requests reaches the upper limit.
timestamp	Long	Specifies the time when a CC attack protection rule is added.

Parameter	Type	Description
default	Boolean	<p>Specifies whether the rule is the default CC attack protection rule.</p> <ul style="list-style-type: none"> • true: The rule is the default CC attack protection rule created by the system when creating a domain name. • false: The rule is created by users.

Table 4-146 tag_condition

Parameter	Type	Description
category	String	Specifies the category. The value is Referer .
contents	List	Specifies the category content.

Table 4-147 action

Parameter	Type	Description
category	String	<p>Specifies the action. The default value is block.</p> <ul style="list-style-type: none"> • block: block the requests. • captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. <p>The default value is block. If tag_type is set to other, this parameter value can only be block.</p>
detail	Table 10	Specifies the action details. If detail is null , the default block page is displayed by default.

Table 4-148 detail

Parameter	Mandatory	Type	Description
response	Yes	Table 11	Specifies the returned page.

Table 4-149 response

Parameter	Type	Description
content_type	String	Specifies the type of the returned page. The options are application/json , text/html , and text/xml .
content	String	Specifies the content of the returned page.

Examples

- Request example

```
{
  "path": "/abc1",
  "limit_num": 10,
  "limit_period": 60,
  "lock_time": "",
  "tag_type": "cookie",
  "tag_index": "sessionid",
  "action": {
    "category": "block",
    "detail": {
      "response": {
        "content_type": "application/json",
        "content": "{\"error\": \"forbidden\"}"
      }
    }
  }
}
```

- Response example

```
{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "path": "/abc1",
  "limit_num": 10,
  "limit_period": 60,
  "lock_time": "",
  "tag_type": "cookie",
  "tag_index": "sessionid",
  "action": {
    "category": "block",
    "detail": {
      "response": {
        "content_type": "application/json",
        "content": "{\"error\": \"forbidden\"}"
      }
    }
  }
}
```

```

    }
  },
  "timestamp": 1499817600,
  "default": false
}

```

Status Code

Table 4-150 describes the normal status code returned by the API.

Table 4-150 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.8 Precise Protection Rules

4.1.8.1 Querying Precise Protection Rules

Function Description

This API is used to query all precise protection rules in a policy.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/custom?offset={offset}&limit={limit}
- Parameter description

Table 4-151 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .

Parameter	Mandatory	Type	Description
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-152 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of precise protection rules in a policy.
items	Table 3	Specifies the precise protection rule objects.

Table 4-153 items

Parameter	Type	Description
id	String	Specifies the ID of a precise protection rule.
policy_id	String	Specifies the policy ID.
name	String	Specifies the rule name.
conditions	Table 4	Specifies the condition parameters. If there are multiple conditions, the conditions must be met at the same time.
action	Table 5	Specifies the protective action after the precise protection rule is matched.

Parameter	Type	Description
time	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: The rule takes effect at the scheduled time.
start	Long	Specifies the time when the precise protection rule takes effect. This parameter is returned only when time is true .
end	Long	Specifies the time when the precise protection rule expires. This parameter is returned only when time is true .
priority	Integer	Specifies the priority of a rule being executed. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 65535 .
timestamp	Long	Specifies the time when a precise protection rule is added.

Table 4-154 conditions

Parameter	Type	Description
category	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .
index	String	<ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.

Parameter	Type	Description
logic	String	contain , not_contain , equal , not_equal , prefix , not_prefix , suffix , and not_suffix indicate Include , Exclude , Equal to , Not equal to , Prefix is , Prefix is not , Suffix is , and Suffix is not respectively. If category is set to ip , logic can only be equal or not_equal .
contents	List	Specifies content matching the condition.

Table 4-155 action

Parameter	Type	Description
category	String	Specifies the protective action. <ul style="list-style-type: none"> • block: block. • pass: allow.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "7374ad99c6c448e9a9ca35cb46660a39",
    "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
    "name": "rule1",
    "time": true,
    "start": 1499817600,
    "end": 1567817600,
    "conditions": [{
      "category": "path",
      "contents": ["/login"],
      "logic": "contain"
    }, {
      "category": "ip",
      "logic": "equal",
      "contents": ["X.X.1.1"]
    }
  ],
  "action": {
    "category": "block"
  },
  "priority": 1,
  "timestamp": 1499817600
}, {
  "id": "7374ad99c6c448e9a9ca35cb46660a39",
```



```

"policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
"name": "rule2",
"time": false,
"conditions": [{
  "category": "path",
  "contents": ["/login"],
  "logic": "contain"
},{
  "category": "ip",
  "logic": "equal",
  "contents": ["X.X.1.1"]
}
],
"action": {
  "category": "block"
},

"priority": 1,
"timestamp": 1499817600
}
]
}

```

Status Code

[Table 4-156](#) describes the normal status code returned by the API.

Table 4-156 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.8.2 Adding a Precise Protection Rule

Function Description

This API is used to add a precise protection rule.

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/custom
- Parameter description

Table 4-157 Path parameters

Parameter	Mandator y	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-158 Parameter description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the name of a precise protection rule. The maximum length is 256 characters. Only digits, letters, underscores (_), and hyphens (-) are allowed.
time	No	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> false: The rule takes effect immediately. true: The rule takes effect at the scheduled time.
start	No	Long	Specifies the time when the precise protection rule takes effect. If time is set to true , either the start time or the end time must be set.
end	No	Long	Specifies the time when the precise protection rule expires. If time is set to true , either the start time or the end time must be set.
conditions	Yes	Table 3	Specifies the condition parameters.
action	Yes	Table 4	Specifies the protective action after the precise protection rule is matched.
priority	No	Integer	Specifies the priority of a rule being executed. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 65535 .

Table 4-159 conditions

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .
index	No	String	<ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.
logic	Yes	String	contain , not_contain , equal , not_equal , prefix , not_prefix , suffix , and not_suffix indicate Include , Exclude , Equal to , Not equal to , Prefix is , Prefix is not , Suffix is , and Suffix is not respectively. If category is set to ip , logic can only be equal or not_equal .
contents	Yes	List	Specifies content matching the condition. Currently, only one value is accepted.

Table 4-160 action

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the protective action. <ul style="list-style-type: none"> • block: block. • pass: allow.

Response

Response parameters

Table 4-161 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a precise protection rule.
policy_id	String	Specifies the ID of the policy to which the rule belongs.
name	String	Specifies the rule name.
conditions	Table 6	Specifies the condition parameters in the precise protection rule.
action	Table 7	Specifies the protective action after the precise protection rule is matched.
priority	Integer	Specifies the priority of a rule being executed. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 65535 .
time	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> ● false: The rule takes effect immediately. ● true: The rule takes effect at the scheduled time.
start	Long	Specifies the time when the precise protection rule takes effect.
end	Long	Specifies the time when the precise protection rule expires.
timestamp	Long	Specifies the time when a precise protection rule is added.

Table 4-162 conditions

Parameter	Type	Description
category	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .
index	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
logic	String	<p>contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively.</p> <p>If category is set to ip, logic can only be equal or not_equal.</p>
contents	List	Specifies content matching the condition.

Table 4-163 action

Parameter	Type	Description
category	String	<p>Specifies the protective action.</p> <ul style="list-style-type: none"> block: block. pass: allow.

Examples

A rule named **rule1** is used as an example.

- Request example

```
{
  "name": "rule1",
  "time": true,
  "start": 1499817600,
  "end": 1567817600,
```

```

"conditions": [{
  "category": "path",
  "contents": ["/login"],
  "logic": "contain"
},{
  "category": "ip",
  "logic": "equal",
  "contents": ["X.X.1.1"]
}
],
"action": {
  "category": "block"
},
"priority": 10
}

```

- Response example

```

{
  "id": "7374ad99c6c448e9a9ca35cb46660a39",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "name": "rule1",
  "time": true,
  "start": 1499817600,
  "end": 1567817600,
  "conditions": [{
    "category": "path",
    "contents": ["/login"],
    "logic": "contain"
  },{
    "category": "ip",
    "logic": "equal",
    "contents": ["X.X.1.1"]
  }
],
  "action": {
    "category": "block"
  },
  "priority": 10,
  "timestamp": 1499817600
}

```

Status Code

[Table 4-164](#) describes the normal status code returned by the API.

Table 4-164 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.8.3 Deleting a Precise Protection Rule

Function Description

This API is used to delete a precise protection rule.

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/custom/{custom_rule_id}
- Parameter description

Table 4-165 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
custom_rule_id	Yes	String	Specifies the ID of a precise protection rule.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-166](#) describes the normal status code returned by the API.

Table 4-166 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.8.4 Querying a Precise Protection Rule

Function Description

This API is used to query details about a precise protection rule.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/custom/{custom_rule_id}
- Parameter description

Table 4-167 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
custom_rule_id	Yes	String	Specifies the ID of a precise protection rule.

Request

Request parameters

None

Response

Response parameters

Table 4-168 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a precise protection rule.
policy_id	String	Specifies the policy ID.
name	String	Specifies the rule name.
time	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: The rule takes effect at the scheduled time.
start	Long	Specifies the time when the precise protection rule takes effect.
end	Long	Specifies the time when the precise protection rule expires.

Parameter	Type	Description
conditions	Table 3	Specifies the condition parameters.
action	Table 4	Specifies the protective action after the precise protection rule is matched.
priority	Integer	Specifies the priority of a rule being executed. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 65535 .
timestamp	Long	Specifies the time when a precise protection rule is added.

Table 4-169 conditions

Parameter	Type	Description
category	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .
index	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
logic	String	<p>contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively.</p> <p>If category is set to ip, logic can only be equal or not_equal.</p>

Parameter	Type	Description
contents	List	Specifies content matching the condition.

Table 4-170 action

Parameter	Type	Description
category	String	Specifies the protective action. <ul style="list-style-type: none"> • block: block. • pass: allow.

Example

Rule ID **7374ad99c6c448e9a9ca35cb46660a39** is used as an example.

Response example

```
{
  "id": "7374ad99c6c448e9a9ca35cb46660a39",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "name": "rule1",
  "time": true,
  "start": 1499817600,
  "end": 1567817600,
  "conditions": [{
    "category": "path",
    "contents": ["/login"],
    "logic": "contain"
  }, {
    "category": "ip",
    "logic": "equal",
    "contents": ["X.X.1.1"]
  }, {
    "category": "referer",
    "logic": "prefix",
    "contents": ["https://www.waf.com/xxx"]
  }, {
    "category": "user-agent",
    "logic": "contain",
    "contents": ["Mozilla/5.0"]
  }, {
    "category": "cookie",
    "index": "SID",
    "logic": 3,
    "contents": ["234SDFASR4R32412FSR325S"]
  }, {
    "category": "header",
    "index": "x-language",
    "logic": "equal",
    "contents": ["en-us"]
  }, {
    "category": "params",
    "index": "name",
    "logic": "equal",
    "contents": ["abc"]
  }
],
  "action": {
```

```

"category": "block"
},
"priority": 10,
"timestamp": 1499817600
}

```

Status Code

Table 4-171 describes the normal status code returned by the API.

Table 4-171 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.8.5 Updating a Precise Protection Rule

Function Description

This API is used to update a precise protection rule.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/custom/{custom_rule_id}
- Parameter description

Table 4-172 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
custom_rule_id	Yes	String	Specifies the ID of a precise protection rule.

Request

Request parameters

Table 4-173 Parameter description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the rule name.

Parameter	Mandatory	Type	Description
time	No	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: The rule takes effect at the scheduled time.
start	No	Long	Specifies the time when the precise protection rule takes effect. If time is set to true , either the start time or the end time must be set.
end	No	Long	Specifies the time when the precise protection rule expires. If time is set to true , either the start time or the end time must be set.
conditions	Yes	Table 3	Specifies the condition parameters.
action	Yes	Table 4	Specifies the protective action after the precise protection rule is matched.
priority	No	Integer	Specifies the rule priority. The value ranges from 0 to 65535 . The default value is 50 . Smaller values correspond to higher priorities.

Table 4-174 conditions

Parameter	Mandatory	Type	Description
category	Yes	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .

Parameter	Mandatory	Type	Description
index	No	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
logic	Yes	String	<p>contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively.</p> <p>If category is set to ip, logic can only be equal or not_equal.</p>
contents	Yes	List	Specifies content matching the condition. Currently, only one value is accepted.

Table 4-175 action

Parameter	Mandatory	Type	Description
category	Yes	String	<p>Specifies the protective action.</p> <ul style="list-style-type: none"> block: block. pass: allow.

Response

Response parameters

Table 4-176 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a precise protection rule.

Parameter	Type	Description
policy_id	String	Specifies the policy ID.
name	String	Specifies the rule name.
time	Boolean	Specifies the effect time of the precise protection rule. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: The rule takes effect at the scheduled time.
start	Long	Specifies the time when the precise protection rule takes effect.
end	Long	Specifies the time when the precise protection rule expires.
conditions	Table 6	Specifies the condition parameters.
action	Table 7	Specifies the protective action after the precise protection rule is matched.
priority	Integer	Specifies the priority of a rule being executed. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 65535 .
timestamp	Long	Specifies the time when a precise protection rule is added.

Table 4-177 conditions

Parameter	Type	Description
category	String	Specifies the condition type. The value can be path , user-agent , ip , params , cookie , referer , or header .

Parameter	Type	Description
index	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
logic	String	<p>contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively.</p> <p>If category is set to ip, logic can only be equal or not_equal.</p>
contents	List	Specifies content matching the condition.

Table 4-178 action

Parameter	Type	Description
category	String	<p>Specifies the protective action.</p> <ul style="list-style-type: none"> block: block. pass: allow.

Examples

A rule named **rule1** is used as an example.

- Request example

```
{
  "name": "rule1",
  "time": true,
  "start": 1499817600,
  "end": 1567817600,
  "conditions": [{
    "category": "path",
    "contents": ["/login"],
    "logic": "contain"
  }],
  "category": "ip",
  "logic": "equal",
  "contents": ["X.X.1.1"]
}
```

```

    }
  ],
  "action": {
    "category": "block"
  },
  "priority": 10
}

```

- Response example

```

{
  "id": "7374ad99c6c448e9a9ca35cb46660a39",
  "policy_id": "9tre832yf96784ec8abd8ba61a98064ef",
  "name": "rule1",
  "time": true,
  "start": 1499817600,
  "end": 1567817600,
  "conditions": [
    {
      "category": "path",
      "contents": ["/login"],
      "logic": "contain"
    },
    {
      "category": "ip",
      "logic": "equal",
      "contents": ["X.X.1.1"]
    }
  ],
  "action": {
    "category": "block"
  },
  "priority": 10,
  "timestamp": 1499817600
}

```

Status Code

[Table 4-179](#) describes the normal status code returned by the API.

Table 4-179 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.9 Data Masking Rules

4.1.9.1 Querying Data Masking Rules

Function Description

This API is used to query all data masking rules in a policy.

URI

- URI format

GET /v1/{project_id}/waf/policy/{policy_id}/privacy?
offset={offset}&limit={limit}

- Parameter description

Table 4-180 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-181 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of rules.
items	Table 3	Specifies the data masking rule objects.

Table 4-182 items

Parameter	Type	Description
id	String	Specifies the ID of a data masking rule.

Parameter	Type	Description
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	String	Specifies the masked field. The options are params and header .
index	String	Specifies the masked subfield.
timestamp	Long	Specifies the time when a data masking rule is added.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "e1c0e55865544d1f8c95cf71df108c6b",
    "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
    "path": "/login",
    "category": "params",
    "index": "password",
    "timestamp": 123243414132
  }, {
    "id": "d947d31c3e794b70a25e5e2057997f8e",
    "policy_id": "yuc0e55865544d1f8c95cf71df108c89",
    "path": "/register",
    "category": "header",
    "index": "x-auth-token",
    "timestamp": 1343243243123
  }
]
}
```

Status Code

Table 4-183 describes the normal status code returned by the API.

Table 4-183 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.9.2 Adding a Data Masking Rule

Function Description

This API is used to add a data masking rule.

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/privacy
- Parameter description

Table 4-184 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-185 Parameter description

Parameter	Mandatory	Type	Description
path	Yes	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	Yes	String	Specifies the masked field. The options are params and header .
index	Yes	String	Specifies the masked subfield.

Response

Response parameters

Table 4-186 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a data masking rule.

Parameter	Type	Description
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	String	Specifies the masked field. The options are params and header .
index	String	Specifies the masked subfield.
timestamp	Long	Specifies the time when a data masking rule is added.

Examples

- Request example

```
{
  "path": "/login",
  "category": "params",
  "index": "name"
}
```

- Response example

```
{
  "id": "e1c0e55865544d1f8c95cf71df108c6b",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "path": "/login",
  "category": "params",
  "index": "name",
  "timestamp": 123243414132
}
```

Status Code

[Table 4-187](#) describes the normal status code returned by the API.

Table 4-187 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.9.3 Deleting a Data Masking Rule

Function Description

This API is used to delete a data masking rule.

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/privacy/{privacy_rule_id}
- Parameter description

Table 4-188 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
privacy_rule_id	Yes	String	Specifies the ID of a data masking rule.

Request

Request parameters

None

Response

Response parameters

None

Status Code

Table 4-189 describes the normal status code returned by the API.

Table 4-189 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.9.4 Querying a Data Masking Rule

Function Description

This API is used to query details about a data masking rule.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/privacy/{privacy_rule_id}
- Parameter description

Table 4-190 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
privacy_rule_id	Yes	String	Specifies the ID of a data masking rule.

Request

Request parameters

None

Response

Response parameters

Table 4-191 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a data masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	String	Specifies the masked field. The options are params and header .
index	String	Specifies the masked subfield.
timestamp	Long	Specifies the time when a data masking rule is added.

Example

Rule ID **e1c0e55865544d1f8c95cf71df108c6b** is used as an example.

Response example

```
{
  "id": "e1c0e55865544d1f8c95cf71df108c6b",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "path": "/login",
  "category": "params",
  "index": "password",
  "timestamp": 12324435345
}
```

Status Code

Table 4-192 describes the normal status code returned by the API.

Table 4-192 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.9.5 Updating a Data Masking Rule

Function Description

This API is used to update a data masking rule.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/privacy/{privacy_rule_id}
- Parameter description

Table 4-193 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
privacy_rule_id	Yes	String	Specifies the ID of a data masking rule.

Request

Request parameters

Table 4-194 Parameter description

Parameter	Mandatory	Type	Description
path	Yes	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	Yes	String	Specifies the masked field. The options are params and header .
index	Yes	String	Specifies the masked subfield.

Response

Response parameters

Table 4-195 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a data masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies the URL to which the data masking rule applies (exact match by default).
category	String	Specifies the masked field. The options are params and header .
index	String	Specifies the masked subfield.
timestamp	Long	Specifies the time when a data masking rule is added.

Examples

- Request example

```
{
  "path": "/login",
  "category": "params",
  "index": "password"
}
```

- Response example

```
{
  "id": "e1c0e55865544d1f8c95cf71df108c6b",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "path": "/login",
  "category": "params",
}
```



```
"index": "password",
"timestamp": 123434534543
}
```

Status Code

[Table 4-196](#) describes the normal status code returned by the API.

Table 4-196 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.10 Web Tamper Protection Rules

4.1.10.1 Querying Web Tamper Protection Rules

Function Description

This API is used to query all web tamper protection rules in a policy.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/antitamper?
offset={offset}&&limit={limit}
- Parameter description

Table 4-197 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-198 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of web tamper protection rules in a policy.
items	Table 3	Specifies the web tamper protection rule objects.

Table 4-199 items

Parameter	Type	Description
id	String	Specifies the ID of a web tamper protection rule.
policy_id	String	Specifies the ID of the policy to which the rule belongs.
hostname	String	Specifies the domain name.
path	String	Specifies the URL protected by the web tamper protection rule, excluding a domain name.
timestamp	Long	Specifies the time when the cache is refreshed.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
    "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
    "hostname": "www.aaa.com",
    "path": "/a",
    "timestamp": 1499817600
  }
]
```

```

}, {
  "id": "44d887434169475794b2717438f7fa78",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "hostname": "www.bbb.com",
  "path": "/b",
  "timestamp": 1499817600
}
]
}

```

Status Code

[Table 4-200](#) describes the normal status code returned by the API.

Table 4-200 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.10.2 Adding a Web Tamper Protection Rule

Function Description

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

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/antitamper
- Parameter description

Table 4-201 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-202 Parameter description

Parameter	Mandatory	Type	Description
hostname	Yes	String	Specifies the domain name.
path	Yes	String	Specifies the URL protected by the web tamper protection rule, excluding a domain name.

Response

Response parameters

Table 4-203 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a web tamper protection rule.
policy_id	String	Specifies the policy ID.
hostname	String	Specifies the domain name.
path	String	Specifies the URL protected by the web tamper protection rule, excluding a domain name.
timestamp	Long	Specifies the time when the cache is refreshed.

Examples

Domain name **www.abc.com** is used as an example.

- Request example

```
{
  "hostname": "www.abc.com",
  "path": "/a"
}
```

- Response example

```
{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "hostname": "www.abc.com",
  "path": "/a",
  "timestamp": 1499817600
}
```

Status Code

Table 4-204 describes the normal status code returned by the API.

Table 4-204 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.10.3 Deleting a Web Tamper Protection Rule

Function Description

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

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/antitamper/{antitamper_rule_id}
- Parameter description

Table 4-205 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
antitamper_rule_id	Yes	String	Specifies the ID of a web tamper protection rule.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-206](#) describes the normal status code returned by the API.

Table 4-206 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.10.4 Querying a Web Tamper Protection Rule

Function Description

This API is used to query details about a web tamper protection rule.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/antitamper/{antitamper_rule_id}
- Parameter description

Table 4-207 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
antitamper_rule_id	Yes	String	Specifies the ID of a web tamper protection rule.

Request

Request parameters

None

Response

Response parameters

Table 4-208 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a web tamper protection rule.

Parameter	Type	Description
policy_id	String	Specifies the policy ID.
hostname	String	Specifies the domain name.
path	String	Specifies the URL protected by the web tamper protection rule, excluding a domain name.
timestamp	Long	Specifies the time when the cache is refreshed.

Example

Rule ID **3a9b5c0f96784ec8abd8ba61a98064ef** is used as an example.

Response example

```
{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "hostname": "www.aaa.com",
  "path": "/a",
  "timestamp": 1499817600
}
```

Status Code

Table 4-209 describes the normal status code returned by the API.

Table 4-209 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.10.5 Refreshing the Web Tamper Protection Rule Cache

Function Description

This API is used to refresh cache in a web tamper protection rule in the event of changes on the protected webpage.

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/antitamper/{antitamper_rule_id}/cache

- Parameter description

Table 4-210 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
antitamper_rule_id	Yes	String	Specifies the ID of a web tamper protection rule.

Request

Request parameters

None

Response

Response parameters

Table 4-211 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a web tamper protection rule.
policy_id	String	Specifies the policy ID.
hostname	String	Specifies the domain name.
path	String	Specifies the URL protected by the web tamper protection rule, excluding a domain name.
timestamp	Long	Specifies the time when the cache is refreshed.

Example

Response example

```
{
  "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "hostname": "www.aaa.com",
  "path": "/a",
  "timestamp": 1499817600
}
```


Status Code

[Table 4-212](#) describes the normal status code returned by the API.

Table 4-212 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.11 False Alarm Masking Rules

4.1.11.1 Querying False Alarm Masking Rules

Function Description

This API is used to query all false alarm masking rules in a policy.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/ignore?
path={path}&offset={offset}&limit={limit}
- Parameter description

Table 4-213 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
path	No	String	Specifies the misreported URL.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-214 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of policies.
items	Table 3	Specifies the false alarm masking rule objects.

Table 4-215 items

Parameter	Type	Description
id	String	Specifies the ID of a false alarm masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies a misreported URL excluding a domain name.
event_id	String	Specifies the event ID.
event_type	String	Specifies the event type.
rule	String	Specifies the rule ID, which consists of six digits and cannot be empty.
timestamp	Long	Specifies the time when a false alarm masking rule is added.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
    "policy_id": "yuc0e5586544d1f8c95cf71df108c6b",
```

```

"event_id": "02d3ac3cd99f440daf8d38e03cf0e2a6",
"event_type": "xss",
"rule": "100001",
"timestamp": 1499817600,
"path": "/a"
}, {
  "id": "44d887434169475794b2717438f7fa78",
  "policy_id": "yuc0e55865544d1f8c95cf71df108c6b",
  "event_id": "f8c74b656a9d4d329dbcefe0969cc427",
  "event_type": "sqli",
  "rule": "100002",
  "timestamp": 1499817600,
  "path": "/a"
}
]
}

```

Status Code

Table 4-216 describes the normal status code returned by the API.

Table 4-216 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.11.2 Adding a False Alarm Masking Rule

Function Description

This API is used to add a false alarm masking rule.

URI

- URI format
POST /v1/{project_id}/waf/policy/{policy_id}/ignore
- Parameter description

Table 4-217 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.

Request

Request parameters

Table 4-218 Parameter description

Parameter	Mandatory	Type	Description
path	Yes	String	Specifies a misreported URL excluding a domain name.
event_id	Yes	String	Specifies the event ID. ID of a misreported event in Events whose type is not Custom . Click Handle False Alarm in the row containing the attack event to obtain the event ID.

Response

Response parameters

Table 4-219 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a false alarm masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies a misreported URL excluding a domain name.
event_id	String	Specifies the event ID.
event_type	String	Specifies the event type.
timestamp	Long	Specifies the time when a false alarm masking rule is added.
rule	String	Specifies the rule ID, which consists of six digits and cannot be empty.

Examples

Rule ID **100001** is used as example.

- Request example

```
{
  "path": "/a",
  "event_id": "3737fb122f2140f39292f597ad3b7e9a"
}
```

- Response example

```
{
  "id": "6cdc116040d444f6b3e1bf1dd629f1d0",
  "policy_id": "44d887434169475794b2717438f7fa78",
  "path": "/a",
  "event_id": "3737fb122f2140f39292f597ad3b7e9a",
  "event_type": "xss",
  "rule": "100001",
  "timestamp": 1499817600
}
```

Status Code

[Table 4-220](#) describes the normal status code returned by the API.

Table 4-220 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.11.3 Deleting a False Alarm Masking Rule

Function Description

This API is used to delete a false alarm masking rule.

URI

- URI format
DELETE /v1/{project_id}/waf/policy/{policy_id}/ignore/{ignore_rule_id}
- Parameter description

Table 4-221 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ignore_rule_id	Yes	String	Specifies the ID of a false alarm masking rule.

Request

Request parameters

None

Response

Response parameters

None

Status Code

[Table 4-222](#) describes the normal status code returned by the API.

Table 4-222 Status code

Status Code	Description	Meaning
204	No Content	The server successfully processed the request and is not returning any content.

For details about error status codes, see [Status Codes](#).

4.1.11.4 Querying a False Alarm Masking Rule

Function Description

This API is used to query details about a false alarm masking rule.

URI

- URI format
GET /v1/{project_id}/waf/policy/{policy_id}/ignore/{ignore_id}
- Parameter description

Table 4-223 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ignore_id	Yes	String	Specifies the ID of a false alarm masking rule.

Request

Request parameters

None

Response

Response parameters

Table 4-224 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a false alarm masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies a misreported URL excluding a domain name.
event_id	String	Specifies the event ID.
event_type	String	Specifies the event type.
timestamp	Long	Specifies the time when a false alarm masking rule is added.
rule	String	Specifies the rule ID, which consists of six digits and cannot be empty.

Example

- Response example

```
{
  "id": "6cdc116040d444f6b3e1bf1dd629f1d0",
  "policy_id": "44d887434169475794b2717438f7fa78",
  "path": "/a",
  "event_id": "3737fb122f2140f39292f597ad3b7e9a",
  "event_type": "xss",
  "rule": "100001",
  "timestamp": 1499817600
}
```

Status Code

[Table 4-225](#) describes the normal status code returned by the API.

Table 4-225 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.11.5 Updating a False Alarm Masking Rule

Function Description

This API is used to update a false alarm masking rule.

URI

- URI format
PUT /v1/{project_id}/waf/policy/{policy_id}/ignore/{ignore_id}
- Parameter description

Table 4-226 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
policy_id	Yes	String	Specifies the policy ID.
ignore_id	Yes	String	Specifies the ID of a false alarm masking rule.

Request

Request parameters

Table 4-227 Parameter description

Parameter	Mandatory	Type	Description
path	No	String	Specifies a misreported URL excluding a domain name.
event_id	No	String	Specifies the event ID. It is the ID of a misreported event in Events whose type is not Custom . Click Handle False Alarm in the row containing the attack event to obtain the event ID.

Response

Response parameters

Table 4-228 Parameter description

Parameter	Type	Description
id	String	Specifies the ID of a false alarm masking rule.
policy_id	String	Specifies the policy ID.
path	String	Specifies a misreported URL excluding a domain name.
event_id	String	Specifies the event ID.
event_type	String	Specifies the event type.
timestamp	Long	Specifies the time when a false alarm masking rule is added.
rule	String	Specifies the rule ID, which consists of six digits and cannot be empty.

Examples

- Request example

```
{
  "path": "/a",
  "event_id": "3737fb122f2140f39292f597ad3b7e9a"
}
```

- Response example

```
{
  "id": "6cdc116040d444f6b3e1bf1dd629f1d0",
  "policy_id": "44d887434169475794b2717438f7fa78",
  "path": "/a",
  "event_id": "3737fb122f2140f39292f597ad3b7e9a",
  "event_type": "xss",
  "rule": "100001",
  "timestamp": 1499817600
}
```

Status Code

[Table 4-229](#) describes the normal status code returned by the API.

Table 4-229 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12 Event Logs

4.1.12.1 Querying Attack Event Logs

Function Description

This API is used to query attack event logs.

URI

- URI format

```
GET /v1/{project_id}/waf/event?
from={from}&to={to}&hosts={hostname}&attacks={attack}&sips={sip}&offset
={offset}&limit={limit}
```

NOTE

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-230 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .
hosts	No	Array	Specifies the domain IDs.
attacks	No	Array	Specifies the list of attack types. For example, sqli and xss .
sips	No	Array	Specifies the attack source IP addresses. For example, X.X.12.23 and X.X.20.85 .
nsips	No	Array	Specifies the excluded attack source IP addresses. For example, X.X.12.1 and X.X.20.2 .

Parameter	Mandatory	Type	Description
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .
marker	No	String	Specifies the ID of the last event record on the previous page.

Request

Request parameters

None

Response

Response parameters

Table 4-231 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of event logs.
items	Table 3	Specifies the event log objects.

Table 4-232 items

Parameter	Type	Description
id	String	Specifies the event ID.
time	Integer	Specifies the attack time since Unix Epoch in milliseconds.
policy_id	String	Specifies the policy ID.
sip	String	Specifies an attack source IP address.
host	String	Specifies an attacked domain name.

Parameter	Type	Description
host_id	String	Specifies a domain name ID.
url	String	Specifies the attacked URL, excluding a domain name.
attack	String	<p>Specifies the attack type.</p> <ul style="list-style-type: none"> ● cc refers to CC attack. ● cmdi refers to command injection. ● custom refers to Precise Protection events. ● illegal refers to invalid requests. ● sqli refers to SQL injection. ● lfi refers to local file inclusion. ● robot refers to malicious crawlers. ● antitamper refers to Web Tamper Protection events. ● rfi refers to remote file inclusion. ● vuln refers to other types of attacks. ● xss refers to XSS attack. ● whiteblackip refers to Blacklist and Whitelist events. ● webshell refers to webshells.
rule	String	Specifies the matched rule ID that consists of six digits.
payload	String	Specifies the hit load.

Parameter	Type	Description
action	String	Specifies the protective action. <ul style="list-style-type: none"> • Block: WAF blocks and logs detected attacks. • Log only: WAF logs detected attacks only. • Allow: WAF allows the requests that meet the specified conditions. • Verification code: A verification code is displayed when the number of requests reaches the maximum limit in a CC attack protection rule. Upon completing the verification, you are no longer restricted by the maximum number of requests allowed. • Filter: WAF implements data masking. • Mismatch: The cached web page in the WAF engine does not match the original web page.
payload_location	String	Specifies the location in the request packet where the attack occurs. The options are as follows: body , url , params , and header .
request_line	String	Specifies the attack request method.
headers	Object	Specifies the attack request header.
cookie	String	Specifies the cookie.
body	String	Specifies the body of an attack request.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [
```

```
{
  "id": "0000-0000-0000-13-56ef71f5745764348192f844658dd144",
  "time": 1499817600,
  "policy_id": "xxx",
  "sip": "X.X.1.1",
  "host": "a.com",
  "host_id": "123",
  "url": "/login",
  "attack": "sql",
  "rule": "20001",
  "payload": "1 or 1=1",
  "action": "block",
  "payload_location": "params",
  "request_line": "GET / ",
  "headers": {
    "Connection": "keep-alive",
    "User-Agent": "curl"
  },
  "cookie": "sid=123; uid=456",
  "body": "user=admin&pass=abc123"
},
{
  "id": "0000-0000-0000-13-56ef71f5745764348192f844658dd144",
  "time": 1499817600,
  "host": "a.com",
  "host_id": "a",
  "policy_id": "xxx",
  "sip": "X.X.1.2",
  "url": "/login",
  "attack": "sql",
  "rule": "20001",
  "payload": "1 or 1=1",
  "action": "log",
  "payload_location": "params",
  "request_line": "GET / ",
  "headers": {
    "Connection": "keep-alive",
    "User-Agent": "curl"
  },
  "cookie": "sid=123; uid=456",
  "body": "user=admin&pass=abc123"
}
]
```

Status Code

[Table 4-233](#) describes the normal status code returned by the API.

Table 4-233 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.2 Querying Attack Event Logs by ID

Function Description

This API is used to query attack event logs by ID.

URI

- URI format
GET /v1/{project_id}/waf/event/{event_id}
- Parameter description

Table 4-234 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
event_id	Yes	String	Specifies the event ID.

Request

Request parameters

None

Response

Response parameters

Table 4-235 Parameter description

Parameter	Type	Description
id	String	Specifies the event ID.
time	Integer	Specifies the attack time since Unix Epoch in milliseconds.
policy_id	String	Specifies the policy ID.
sip	String	Specifies an attack source IP address.
host	String	Specifies an attacked domain name.
host_id	String	Specifies a domain name ID.
url	String	Specifies the attacked URL, excluding a domain name.
attack	String	Specifies the attack type.
rule	String	Specifies the ID of the matched rule.
payload	String	Specifies the hit load.

Parameter	Type	Description
action	String	Specifies the protective action. <ul style="list-style-type: none"> • Block: WAF blocks and logs detected attacks. • Log only: WAF logs detected attacks only. • Allow: WAF allows the requests that meet the specified conditions. • Verification code: A verification code is displayed when the number of requests reaches the maximum limit in a CC attack protection rule. Upon completing the verification, you are no longer restricted by the maximum number of requests allowed. • Filter: WAF implements data masking. • Mismatch: The cached web page in the WAF engine does not match the original web page.
payload_location	String	Specifies the location in the request packet where the attack occurs. The options are as follows: body , url , params , and header .
request_line	String	Specifies the attack request method.
headers	Object	Specifies the attack request header.
cookie	String	Specifies the cookie.
body	String	Specifies the body of an attack request.

Example

Event ID **0000-0000-0000-13-56ef71f5745764348192f844658dd144** is used as an example.

Response example


```
{
  "id": "0000-0000-0000-13-56ef71f5745764348192f844658dd144",
  "time": 1499817600,
  "policy_id": "xxx",
  "sip": "X.X.1.1",
  "host": "a.com",
  "host_id": "123",
  "url": "/login",
  "attack": "sqli",
  "rule": "20001",
  "payload": "1 or 1=1",
  "action": "block",
  "payload_location": "params",
  "request_line": "GET / ",
  "headers": {
    "Connection": "keep-alive",
    "User-Agent": "curl"
  },
  "cookie": "sid=123; uid=456",
  "body": "user=admin&pass=abc123"
}
```

Status Code

[Table 4-236](#) describes the normal status code returned by the API.

Table 4-236 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.3 Querying Event Distribution

Function Description

This API is used to query event distribution.

URI

- URI format
GET /v1/{project_id}/waf/event/attack/type?
from={from}&to={to}&hosts={hostids}

NOTE

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-237 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-238 Parameter description

Parameter	Type	Description
xss	Integer	Specifies the number of XSS attacks detected within the time range.
sqli	Integer	Specifies the number of SQL injection attacks detected within the time range.
cmdi	Integer	Specifies the number of command injection attacks detected within the time range.
cc	Integer	Specifies the number of CC attacks detected within the time range.
custom	Integer	Specifies the number of Precise Protection events detected within the time range.

Parameter	Type	Description
illegal	Integer	Specifies the number of invalid requests detected within the time range.
lfi	Integer	Specifies the number of local file inclusion attacks detected within the time range.
robot	Integer	Specifies the number of malicious crawlers detected within the time range.
antitamper	Integer	Specifies the number of webpage tampering attacks detected within the time range.
rfi	Integer	Specifies the number of remote file inclusion attacks detected within the time range.
vuln	Integer	Specifies the number of other attacks detected within the time range.
whiteblackip	Integer	Specifies the number of Blacklist and Whitelist events detected within the time range.
webshell	Integer	Specifies the number of webshell attacks detected within the time range.

Example

Response example

```
{
  "xss": 150,
  "sqli": 321,
  "cmdi": 120,
  "robot": 10,
  "whiteblackip": 30,
  "custom": 50,
  "cc": 60,
  "illegal": 10
}
```

Status Code

[Table 4-239](#) describes the normal status code returned by the API.

Table 4-239 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.4 Querying Request Statistics and Attack Statistics in a Specified Time Range

Function Description

This API is used to query request statistics and attack statistics in a specified time range.

URI

- URI format

```
GET /v1/{project_id}/waf/event/timeline?
from={from}&to={to}&timezone={timezone}&hosts={hostids}
```

NOTE

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-240 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .

Parameter	Mandatory	Type	Description
timezone	No	String	Time zone. For example, the time zone for London is +00:00. The default value is +00:00.
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-241 Parameter description

Parameter	Type	Description
requests	Table 3	Specifies request statistics.
attacks	Table 4	Specifies attack statistics.

Table 4-242 requests

Parameter	Type	Description
time	Integer	Specifies the end time since Unix Epoch in milliseconds.
num	Integer	Specifies the number of requests.

Table 4-243 attacks

Parameter	Type	Description
time	Integer	Specifies the end time since Unix Epoch in milliseconds.
num	Integer	Specifies the number of attacks.

Example

Response example

```
{
  "requests": [
    {"time": 1499817600, "num": 123400},
    {"time": 1499817601, "num": 123401},
    {"time": 1499817602, "num": 123402}
  ],
  "attacks": [
    {"time": 1499817600, "num": 1234},
    {"time": 1499817601, "num": 1235},
    {"time": 1499817602, "num": 1236}
  ]
}
```

Status Code

[Table 4-244](#) describes the normal status code returned by the API.

Table 4-244 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.5 Querying the Total Number of Attacks

Function Description

This API is used to query the total number of attacks.

URI

- URI format
GET /v1/{project_id}/waf/event/attack/num?
from={from}&to={to}&hosts={hostids}

NOTE

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-245 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	String	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	String	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-246 Parameter description

Parameter	Type	Description
attack_num	Integer	Specifies the total number of attacks.

Example

Response example

```
{
  "attack_num": 150
}
```

Status Code

[Table 4-247](#) describes the normal status code returned by the API.

Table 4-247 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.6 Querying Top N Attack Source IP Addresses

Function Description

This API is used to query the top N attack source IP addresses.

URI

- URI format

```
GET /v1/{project_id}/waf/event/attack/source?
top={top}&from={from}&to={to}&hosts={hostids}
```

NOTE

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-248 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
top	No	Integer	Specifies the top <i>n</i> attack source IP addresses to be queried. The default value is 5.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-249 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of attack source IP addresses.
items	Table 3	Specifies the array of items.

Table 4-250 items

Parameter	Type	Description
ip	String	Specifies the attack source IP addresses.
num	Integer	Specifies the number of attacks came from the attack source IP addresses.

Example

Response example

```
{
  "total": 4,
  "items": [
    {"ip": "X.X.1.1", "num": 1000},
    {"ip": "X.X.1.2", "num": 1000},
    {"ip": "X.X.1.3", "num": 1000},
    {"ip": "X.X.1.4", "num": 1000}
  ]
}
```

Status Code

[Table 4-251](#) describes the normal status code returned by the API.

Table 4-251 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.7 Querying the Number of Attack Source IP Addresses

Function Description

This API is used to query the number of attack source IP addresses.

URI

- URI format

GET /v1/{project_id}/waf/event/attack/source/num?
from={from}&to={to}&hosts={hostids}

NOTE

An example of a URI is as follows:

GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217

- Parameter description

Table 4-252 Path parameters

Parameter	Mandator y	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-253 Parameter description

Parameter	Type	Description
sip	Integer	Specifies the number of attack source IP addresses.

Example

Response example

```
{
  "sip": 50
}
```

Status Code

[Table 4-254](#) describes the normal status code returned by the API.

Table 4-254 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.8 Querying the Total Number of Requests per Second

Function Description

This API is used to query the total number of requests per second.

URI

- URI format

```
GET /v1/{project_id}/waf/event/request/peak?
from={from}&to={to}&hosts={hostids}
```

 **NOTE**

An example of a URI is as follows:

```
GET /v1/3ac26c59e15a4a11bb680a103a29ddb6/waf/event/attack/type?
from=1543976973635&to=1563976973635&hosts=3211757cafa3437aae24d760022e79
ba&hosts=93029844064b43739b51ca63036fbc4b&hosts=34fe5f5c60ef4e43a99752967
65d1217
```

- Parameter description

Table 4-255 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
from	Yes	Long	Specifies the start time (UTC) in milliseconds. For example, 1548172800000 .
to	Yes	Long	Specifies the end time (UTC) in milliseconds. For example, 1548431999000 .

Parameter	Mandatory	Type	Description
hosts	No	Array	Specifies the domain IDs.

Request

Request parameters

None

Response

Response parameters

Table 4-256 Parameter description

Parameter	Type	Description
qps	Integer	Specifies the total number of requests per second.

Example

Response example

```
{
  "qps": 800
}
```

Status Code

[Table 4-257](#) describes the normal status code returned by the API.

Table 4-257 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.12.9 Querying the List of Event Log Files

Function Description

This API is used to query the list of event log files.

URI

- URI format
GET /v1/{project_id}/waf/event/dump?offset={offset}&limit={limit}
- Parameter description

Table 4-258 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
offset	No	Long	Specifies the number of returned pages. Its value ranges from 0 to 65535 . The default value is 0 .
limit	No	Long	Specifies the maximum number of records displayed on each page. Its value ranges from 0 to 50 . The default value is 10 .

Request

Request parameters

None

Response

Response parameters

Table 4-259 Parameter description

Parameter	Type	Description
total	Integer	Specifies the total number of log files.
items	Table 3	Specifies the log file objects.

Table 4-260 items

Parameter	Type	Description
id	String	Specifies the ID of a log file.
filename	String	Specifies the name of a log file.

Parameter	Type	Description
total	Integer	Specifies the total number of events in a log file.
url	String	Specifies the URL to download a log file.
timestamp	Long	Specifies the time when a log file is generated.

Example

total with a value of **2** is used as an example.

Response example

```
{
  "total": 2,
  "items": [{
    "id": "3a9b5c0f96784ec8abd8ba61a98064ef",
    "filename": "",
    "total": "100",
    "url": "https://obs_server/obs-waf-log/-2019-01-15-xxxxxxxxxx.csv?
AWSAccessKeyId=XXXXXXXXXX&Expires=1547632&Signature=nC7ipaGzLQs",
    "timestamp": 1499817600
  }, {
    "id": "44d887434169475794b2717438f7fa78",
    "filename": "W-2019-01-14.csv",
    "total": "200",
    "url": "https://obs_server/obs-waf-log/-2019-01-14-xxxxxxxxxx.csv?
AWSAccessKeyId=XXXXXXXXXX&Expires=1547632&Signature=nC7ipaGzLQs",
    "timestamp": 1499817601
  }
]
}
```

4.1.13 Alarm Notification

Only notifications that tenants have subscribed to can be viewed and modified.

4.1.13.1 Querying Alarm Notification Configurations

Function Description

This API is used to query alarm notification configurations.

URI

- URI format
GET /v1/{project_id}/waf/config/alert
- Parameter description

Table 4-261 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Request

Request parameters

None

Response

Response parameters

Table 4-262 Parameter description

Parameter	Type	Description
id	String	Specifies the unique ID of an alarm configuration.
enabled	Boolean	Specifies whether to send an alarm notification. <ul style="list-style-type: none"> • true: Send the alarm notification. • false: Do not send the alarm notification.
topic_urn	String	Specifies the SMN topic to which an alarm is sent.
sendfreq	Integer	Specifies the minimum interval between two alarms in minutes. The options are 5 , 15 , 30 , and 60 .
times	Integer	Specifies the alarm threshold. Alarm notifications are sent when the number of attacks is greater than or equal to the threshold within the configured period. This value is greater than or equal to 1 .

Parameter	Type	Description
threat	List<String>	Specifies the list of event types. <ul style="list-style-type: none"> • all refers to all types of events. • cc refers to CC attack. • cmdi refers to command injection. • custom refers to Precise Protection events. • illegal refers to invalid requests. • sqli refers to SQL injection. • lfi refers to local file inclusion. • robot refers to malicious crawlers. • antitamper refers to Web Tamper Protection events. • rfi refers to remote file inclusion. • vuln refers to other types of attacks. • xss refers to XSS attack. • whiteblackip refers to Blacklist and Whitelist events. • webshell refers to webshells.
locale	String	Specifies the language configuration. Only zh-cn and en-us are supported. The default value is en-us .

Example

Response example

```
{
  "id": "37b4bbe8a562453aa0163a96e6b71dd6",
  "enabled": true,
  "topic_urn": "urn:smn:eude:fca6f667ac5f4d9798d1641dfd38106b:wptest",
  "sendfreq": 5,
  "times": 200,
  "threat": ["xss", "sqli", "cmdi"],
  "locale": "en-us"
}
```

Status Code

Table 4-263 describes the normal status code returned by the API.

Table 4-263 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.13.2 Updating Alarm Notification Configurations

Function Description

This API is used to update alarm notification configurations.

URI

- URI format
PUT /v1/{project_id}/waf/config/alert/{alertconfig_id}
- Parameter description

Table 4-264 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
alertconfig_id	Yes	String	Specifies the ID of the alarm notification configuration to be updated. For details about how to query the alarm configuration ID, see Querying Alarm Notification Configurations .

Request

Request parameters

Table 4-265 Parameter description

Parameter	Mandatory	Type	Description
enabled	Yes	Boolean	Specifies whether to send an alarm notification. <ul style="list-style-type: none"> • true: Send the alarm notification. • false: Do not send the alarm notification.
topic_urn	Yes	String	Specifies the SMN topic to which an alarm is sent. <p>NOTE The selected topic must be a topic whose subscription information has been configured on the SMN console.</p>

Parameter	Mandatory	Type	Description
sendfreq	Yes	Integer	Specifies the minimum interval between two alarms in minutes. The options are 5 , 15 , 30 , and 60 .
times	Yes	Integer	Specifies the alarm threshold. Alarm notifications are sent when the number of attacks is greater than or equal to the threshold within the configured period. This value is greater than or equal to 1 .
threat	Yes	List<String>	Specifies the list of event types. <ul style="list-style-type: none"> • all refers to all types of events. • cc refers to CC attack. • cmdi refers to command injection. • custom refers to Precise Protection events. • illegal refers to invalid requests. • sqli refers to SQL injection. • lfi refers to local file inclusion. • robot refers to malicious crawlers. • antitamper refers to Web Tamper Protection events. • rfi refers to remote file inclusion. • vuln refers to other types of attacks. • xss refers to XSS attack. • whiteblackip refers to Blacklist and Whitelist events. • webshell refers to webshells.
locale	No	String	Specifies the language configuration. Only zh-cn and en-us are supported. The default value is en-us .

Response

Response parameters

Table 4-266 Parameter description

Parameter	Type	Description
id	String	Specifies the unique ID of an alarm configuration.
enabled	Boolean	Specifies whether to send an alarm notification. <ul style="list-style-type: none"> • true: Send the alarm notification. • false: Do not send the alarm notification.
topic_urn	String	Specifies the user-defined SMN topic. Users can receive alarm notifications by SMS or email.
sendfreq	Integer	Specifies the minimum interval between two alarms in minutes. The options are 5 , 15 , 30 , and 60 .
times	Integer	Specifies the alarm threshold. Alarm notifications are sent when the number of attacks is greater than or equal to the threshold within the configured period. This value is greater than or equal to 1 .
threat	List<String>	Specifies the list of event types. <ul style="list-style-type: none"> • all refers to all types of events. • cc refers to CC attack. • cmdi refers to command injection. • custom refers to Precise Protection events. • illegal refers to invalid requests. • sqli refers to SQL injection. • lfi refers to local file inclusion. • robot refers to malicious crawlers. • antitamper refers to Web Tamper Protection events. • rfi refers to remote file inclusion. • vuln refers to other types of attacks. • xss refers to XSS attack. • whiteblackip refers to Blacklist and Whitelist events. • webshell refers to webshells.
locale	String	Specifies the language configuration. Only zh-cn and en-us are supported. The default value is en-us .

Examples

- Request example

```
{
  "enabled": true,
  "topic_urn": "urn:smn:eude:fca6f667ac5f4d9798d1641dfd38106b:wptest",
  "sendfreq": 5,
  "times": 200,
  "threat": ["xss", "sqli", "cmdi"]
}
```

- Response example

```
{
  "id": "37b4bbe8a562453aa0163a96e6b71dd6",
  "enabled": true,
  "topic_urn": "urn:smn:eude:fca6f667ac5f4d9798d1641dfd38106b:wptest",
  "sendfreq": 5,
  "times": 200,
  "threat": ["xss", "sqli", "cmdi"],
  "locale": "en-us"
}
```

Status Code

[Table 4-267](#) describes the normal status code returned by the API.

Table 4-267 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.14 Obtaining Option Details

4.1.14.1 Querying Event Type in Alarm Notifications

Function Description

This API is used to query event type in an alarm notification.

URI

- URI format
GET /v1/{project_id}/waf/map/threat?lang={lang}
- Parameter description

Table 4-268 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.

Parameter	Mandatory	Type	Description
lang	No	String	Specifies the language configuration. The options are zh-cn and en-us . The default value is en-us .

Request

Request parameters

None

Response

Response parameters

Table 4-269 Parameter description

Parameter	Type	Description
threats	List	Specifies the list of event types.
locale	Table 3	Specifies event names.

Table 4-270 locale

Parameter	Type	Description
xss	String	Specifies XSS attack.
sqli	String	Specifies SQL injection.
cmdi	String	Specifies command injection.
cc	String	Specifies CC attack.
custom	String	Specifies Precise Protection.
illegal	String	Specifies invalid requests.
lfi	String	Specifies local file inclusion.
robot	String	Specifies malicious crawlers.
antitamper	String	Specifies Web Tamper Protection.
rfi	String	Specifies remote file inclusion.

Parameter	Type	Description
vuln	String	Specifies other types of attacks.
whiteblackip	String	Specifies Blacklist and Whitelist.
webshell	String	Specifies webshells.

Example

Response example

```
{
  "threats": ["xss", "sqli", "cmdi"],
  "locale": {
    "xss": "Cross Site Scripting",
    "sqli": "SQL Injection",
    "cmdi": "Command Injection"
  }
}
```

Status Code

[Table 4-271](#) describes the normal status code returned by the API.

Table 4-271 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.14.2 Querying the Source IP Header

Function Description

This API is used to query the source IP header.

URI

- URI format
GET /v1/{project_id}/waf/map/sipheader?lang={lang}
- Parameter description

Table 4-272 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
lang	No	String	Specifies the language configuration. The options are zh-cn and en-us . The default value is en-us .

Request

Request parameters

None

Response

Response parameters

Table 4-273 Parameter description

Parameter	Type	Description
sipheadermap	Table 3	Specifies the list of source IP headers.
locale	Table 4	Specifies additional information.

Table 4-274 sipheadermap

Parameter	Type	Description
default	Array	Specifies the default HTTP request header to identify the real source IP address.
cloudflare	Array	Specifies the HTTP request header used by Cloudflare to identify the real source IP address.
akamai	Array	Specifies the HTTP request header used by Akamai to identify the real source IP address.

Parameter	Type	Description
custom	Array	Specifies the custom HTTP request header to identify the real source IP address.

Table 4-275 locale

Parameter	Type	Description
default	String	The value is Default .
cloudflare	String	The value is CloudFlare .
akamai	String	The value is Akamai .
custom	String	The value is Custom .

Example

Response example

```
{
  "sipheadermap": {
    "default": ["X-Forwarded-For"],
    "cloudflare": ["CF-Connecting-IP", "X-Forwarded-For"],
    "akamai": ["True-Client-IP"],
    "custom": []
  },
  "locale": {
    "default": "Default",
    "cloudflare": "CloudFlare",
    "akamai": "Akamai",
    "custom": "Custom"
  }
}
```

Status Code

[Table 4-276](#) describes the normal status code returned by the API.

Table 4-276 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.1.15 Interconnecting with Cloud Eye

4.1.15.1 Querying the Instance Name and Status

Function Description

This API is used to query the name and status of the instance for interconnecting with Cloud Eye.

URI

- URI format
GET /v1/{project_id}/waf/instance/{instance_id}/metrics
- Parameter description

Table 4-277 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID.
instance_id	Yes	String	Specifies the instance ID.

Request

Request parameters

None

Response

Response parameters

Table 4-278 Parameter description

Parameter	Type	Description
waf_instance_id	String	Specifies the identifier of a metric dimension.
name	String	Specifies the name of a resource instance.
status	String	Specifies the status of a resource instance.

Example

Response example

```
{  
  "waf_instance_id": "dhubvdfbvdfhbasdkjvfhwoow",  
  "name": "www.test.com",  
  "status": "enable"  
}
```

Status Code

[Table 4-279](#) describes the normal status code returned by the API.

Table 4-279 Status code

Status Code	Description	Meaning
200	OK	The request has succeeded.

For details about error status codes, see [Status Codes](#).

4.2 Dedicated Mode

4.2.1 Dedicated Instance Management

4.2.1.1 Querying Dedicated WAF Instances

Function

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

URI

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

Table 4-280 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-281 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 4-282 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 4-283 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 4-284 ListInstance

Parameter	Type	Description
id	String	IDs of the dedicated WAF instance.
instancename	String	Names of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed

Parameter	Type	Description
access_status	Integer	Access status of the domain names protected with the dedicated WAF instance. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: the domain name is not connected with the dedicated WAF instance. • 1: The domain name is connected with the dedicated WAF instance.
upgradable	Integer	Whether the dedicated WAF instance can be upgraded. The value can be 0 or 1 . <ul style="list-style-type: none"> • 0: The instance cannot be upgraded. • 1: The instance can be upgraded.
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB
hosts	Array of IdHostnameEntry objects	Domain name protected by the dedicated engine
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.
instance_name	String	Names of the dedicated WAF instance.

Table 4-285 IdHostnameEntry

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

Status code: 400

Table 4-286 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-287 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-288 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
GET https://{endpoint}/v1/{project_id}/premium-waf/instance
```

Example Responses

Status code: 200

Lists of dedicated WAF instances

```
{
  "purchased": true,
  "total": 1,
  "items": [ {
    "id": "0619871acb764d48a112695e8f7cbb10",
    "region": "region-01-7",
    "zone": "region-01-7a",
    "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](#).

4.2.1.2 Creating a Dedicated WAF Instance

Function

This API is used to create a dedicated WAF instance.

URI

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

Table 4-289 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-290 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 4-291 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 4-292 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.
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 .

Parameter	Mandatory	Type	Description
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
res_tenant	Yes	Boolean	Whether this is resource tenant. <ul style="list-style-type: none"> true: resource tenant.

Response Parameters

Status code: 200

Table 4-293 Response body parameters

Parameter	Type	Description
instances	Array of instanceInfo objects	instances

Table 4-294 instanceInfo

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

Status code: 400

Table 4-295 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-296 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-297 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{endpoint}/v1/{project_id}/premium-waf/instance

{
  "chargemode": 30,
  "region": "region-01-4",
  "available_zone": "region-01-4a",
  "arch": "x86",
  "instancename": "demo",
  "specification": "waf.instance.enterprise",
  "cpu_flavor": "c3ne.2xlarge.2",
  "vpc_id": "d7b6a5ff-6c53-4cd4-9d57-f20ee8753056",
  "subnet_id": "e59ccd18-7e15-4588-b689-04b856f4e78b",
  "security_group": [ "09b156a2-f0f0-41fd-9891-60e594601cfd" ],
  "count": 1,
  "res_tenant": true
}
```

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](#).

4.2.1.3 Querying Details about a Dedicated WAF Instance

Function

Querying Details about a Dedicated WAF Engine

URI

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

Table 4-298 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 4-299 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 4-300 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 4-301 Response body parameters

Parameter	Type	Description
id	String	ID of the dedicated WAF instance.
instancename	String	Name of the dedicated WAF instance.
region	String	ID of the region where the dedicated WAF instance is deployed.
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.

Parameter	Type	Description
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.
upgradable	Integer	Whether the dedicated engine can be upgraded (0: no; 1: yes)
cloudServiceType	String	Cloud service code This parameter is used as an identifier only. You can ignore this parameter.
resourceType	String	Cloud service resource type, which is used as an identifier only. You can ignore this parameter.
resourceSpecCode	String	Cloud service resource code This parameter is used as an identifier only. You can ignore this parameter.
specification	String	Dedicated engine ECS specifications, for example, 8 vCPUs 16 GB
serverId	String	ID of the ECS hosting the dedicated engine
create_time	Long	Time the dedicated WAF instance is created.

Status code: 400

Table 4-302 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-303 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-304 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
GET https://{endpoint}/v1/{project_id}/premium-waf/instance/{instance_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "0619871acb764d48a112695e8f7cbb10",
  "region": "region-01-7",
  "zone": "region-01-7a",
  "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](#).

4.2.1.4 Renaming a Dedicated WAF Instance

Function

Renaming a Dedicated WAF Engine

URI

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

Table 4-305 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 4-306 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 4-307 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 4-308 Request body parameters

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

Response Parameters

Status code: 200

Table 4-309 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

Parameter	Type	Description
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.
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.

Parameter	Type	Description
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 4-310 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-311 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-312 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{endpoint}/v1/{project_id}/premium-waf/instance/{instance_id}
{
```

```
"instancetype": "0412elb"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "0619871acb764d48a112695e8f7cbb10",
  "region": "region-01-7",
  "zone": "region-01-7a",
  "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,
  "instancetype": "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](#).

4.2.1.5 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 4-313 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	ID of the dedicated WAF instance. It can be obtained by calling the WAF ListInstance API

Table 4-314 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 4-315 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 4-316 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.

Parameter	Type	Description
zone	String	AZ ID
arch	String	CPU Architecture
cpu_flavor	String	ECS Specifications
vpc_id	String	ID of the VPC where the dedicated WAF instance locates.
subnet_id	String	ID of the VPC subnet where the dedicated WAF instance locates.
service_ip	String	Service plane IP address of the dedicated WAF instance.
security_group_ids	Array of strings	Security group where the dedicated WAF instance is added.
status	Integer	Billing status of the dedicated WAF instance. <ul style="list-style-type: none"> ● 0: Normal. ● 1: Frozen. Resources and data will be retained, but the instance cannot be used. ● 2: Terminated. Resources and data will be cleared.
run_status	Integer	Running status of the dedicated instance. The value can be any of the following: <ul style="list-style-type: none"> ● 0: Creating ● 1: Running ● 2: Deleting ● 3: Deleted ● 4: Creation failed ● 5: Frozen ● 6: Abnormal ● 7: Updating ● 8: Update failed
access_status	Integer	Access status of the dedicated engine. The value 0 indicates that the dedicated engine is not connected, and the value 1 indicates that the dedicated engine is connected.
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.

Parameter	Type	Description
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 4-317 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-318 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-319 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
DELETE https://{endpoint}z/v1/{project_id}/premium-waf/instance/{instance_id}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "0619871acb764d48a112695e8f7cbb10",
  "region": "region-01-7",
  "zone": "region-01-7a",
  "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](#).

4.2.2 Domain Names Protected by WAF

4.2.2.1 Adding a Domain Name to a Dedicated WAF Instance

Function

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

URI

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

Table 4-320 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-321 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 4-322 Request header parameters

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

Table 4-323 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.

Parameter	Mandatory	Type	Description
certificatenam e	No	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.
hostname	Yes	String	Domain name. For example, www.example.com or *.example.com.
proxy	Yes	Boolean	Whether a proxy is used. <ul style="list-style-type: none"> true: The proxy is enabled. false: The proxy is disabled.
policyid	No	String	ID of the policy initially used to the domain name. It can be obtained by calling the ListPolicy API.
server	Yes	Array of PremiumWaf Server objects	Origin server list
access_progre ss	No	Array of Access_progr ess objects	Redundant parameter. It is used for console only.

Table 4-324 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Client protocol used to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> HTTP HTTPS
back_protocol	Yes	String	Server protocol used when WAF forwards client requests to the origin server. Enumeration values: <ul style="list-style-type: none"> HTTP HTTPS

Parameter	Mandatory	Type	Description
address	Yes	String	Public IP address or domain name of the origin server that the client accesses.
port	Yes	Integer	Port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
type	Yes	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	Yes	String	VPC ID. Perform the following steps to obtain the VPC ID: <ul style="list-style-type: none"> • 1. Find the name of the VPC where the dedicated engine is located. The VPC name is in the VPC\Subnet column. Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC\Subnet. • 2. Log in to the VPC console and click the VPC name. On the page displayed, copy the VPC ID in the VPC Information area.

Table 4-325 Access_progress

Parameter	Mandatory	Type	Description
step	No	Integer	Step
status	No	Integer	Status

Response Parameters

Status code: 200

Table 4-326 Response body parameters

Parameter	Type	Description
id	String	Protected domain name ID

Parameter	Type	Description
policyid	String	Policy ID
hostname	String	Protected domain name
domainid	String	Tenant ID
projectid	String	Project ID
protocol	String	HTTP protocol
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none">• -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF.• 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks.• 1: Enabled. WAF detects attacks based on the configured policy.
access_status	Integer	Whether a domain name is connected to WAF. <ul style="list-style-type: none">• 0: disconnected• 1: connected
web_tag	String	Website name.
proxy	Boolean	Whether a proxy is used. <ul style="list-style-type: none">• true: The proxy is enabled.• false: The proxy is disabled.
server	Array of PremiumWaf Server objects	Origin server list
flag	Flag object	Special domain name identifier. This parameter is used for console only.
block_page	BlockPage object	Alarm configuration page
extend	Map<String,String>	Extended attribute

Table 4-327 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Client protocol used to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Server protocol used when WAF forwards client requests to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	String	Public IP address or domain name of the origin server that the client accesses.
port	Integer	Port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. Perform the following steps to obtain the VPC ID: <ul style="list-style-type: none"> • 1.Find the name of the VPC where the dedicated engine is located. The VPC name is in the VPC\Subnet column. Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC \Subnet. • 2.Log in to the VPC console and click the VPC name. On the page displayed, copy the VPC ID in the VPC Information area.

Table 4-328 Flag

Parameter	Type	Description
pci_3ds	String	Whether your website passes PCI 3DS check. <ul style="list-style-type: none"> • true: Your website passed the PCI 3DS check. • false: Your website failed the PCI 3DS check. Enumeration values: <ul style="list-style-type: none"> • true • false
pci_dss	String	Whether your website passes PCI DSS check <ul style="list-style-type: none"> • true: Your website passed the PCI DSS check. • false: Your website failed the PCI DSS check. Enumeration values: <ul style="list-style-type: none"> • true • false
cname	String	The CNAME record the domain name is using <ul style="list-style-type: none"> • old: The domain name uses the old CNAME record. • new: The domain name uses a new CNAME record. Enumeration values: <ul style="list-style-type: none"> • old • new
is_dual_az	String	Whether WAF supports multi-AZ DR. <ul style="list-style-type: none"> • true: WAF supports multi-AZ disaster recovery (DR). • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-329 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	Redirection URL

Table 4-330 CustomPage

Parameter	Type	Description
status_code	String	Status code
content_type	String	Content type of alarm page
content	String	Page content

Status code: 400

Table 4-331 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-332 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-333 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/premium-waf/host?enterprise_project_id=0
{
  "hostname": "www.demo.com",
  "server": [ {
```

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

Example Responses

Status code: 200

ok

```
{  
  "id" : "51a5649e52d341a9bb802044950969dc",  
  "hostname" : "www.demo.com",  
  "protocol" : "HTTP",  
  "server" : [ {  
    "address" : "x.x.x.x",  
    "port" : 80,  
    "type" : "ipv4",  
    "weight" : 1,  
    "front_protocol" : "HTTP",  
    "back_protocol" : "HTTP",  
    "vpc_id" : "cf6dbace-b36a-4d51-ae04-52a3319ae247"  
  } ],  
  "proxy" : false,  
  "locked" : 0,  
  "timestamp" : 1650596007113,  
  "flag" : {  
    "pci_3ds" : "false",  
    "pci_dss" : "false"  
  },  
  "description" : "",  
  "policyid" : "1607df035bc847b582ce9c838c083b88",  
  "projectid" : "550500b49078408682d0d4f7d923f3e1",  
  "domainid" : "d4ecb00b031941ce9171b7bc3386883f",  
  "enterprise_project_id" : "0",  
  "protect_status" : 1,  
  "access_status" : 0,  
  "web_tag" : "",  
  "access_progress" : [ ]  
}
```

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](#).

4.2.2.2 Querying Domain Names Protected by Dedicated WAF Instances

Function

This API is used for querying domain names protected by dedicated WAF engines.

URI

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

Table 4-334 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-335 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	String	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	String	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10
hostname	No	String	Protected domain name
policyname	No	String	Policy name

Parameter	Mandatory	Type	Description
protect_status	No	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended: WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Request Parameters

Table 4-336 Request header parameters

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

Response Parameters

Status code: 200

Table 4-337 Response body parameters

Parameter	Type	Description
total	Integer	Total number of protected domain names
items	Array of SimplePremiumWafHost objects	Details about the protected domain name

Table 4-338 SimplePremiumWafHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
policyid	String	Policy ID
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. • 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. • 1: Enabled. WAF detects attacks based on the configured policy.
access_status	Integer	Whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: disconnected • 1: connected
flag	Map<String,String>	Special domain name identifier. This parameter is used for console only.
mode	String	Identifier of dedicated WAF engine in special WAF mode, such as ELB.
block_page	BlockPage object	Alarm configuration page
traffic_mark	TrafficMark object	Stream tag
extend	Map<String,String>	Extended field
circuit_breaker	CircuitBreaker object	Circuit breaker configuration
timeout_config	TimeoutConfig object	Timeout settings
access_progress	Array of Access_progress objects	Redundant parameter. It is used for console only.

Table 4-339 BlockPage

Parameter	Type	Description
template	String	Template name

Parameter	Type	Description
custom_page	CustomPage object	Custom alarm page
redirect_url	String	Redirection URL

Table 4-340 CustomPage

Parameter	Type	Description
status_code	String	Status code
content_type	String	Content type of alarm page
content	String	Page content

Table 4-341 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP address in the known attack source rule
cookie	String	cookie
params	String	Parameters

Table 4-342 CircuitBreaker

Parameter	Type	Description
switch	Boolean	Circuit breaker switch
dead_num	Integer	Threshold for the number of unreachable origin servers.
dead_ratio	Number	Threshold for the percentage of unreachable origin servers.
block_time	Integer	Time to trigger the circuit breaker for unreachable origin servers.
superposition_num	Integer	Number of reached thresholds to trigger the circuit breaker.
suspend_num	Integer	Threshold for suspended connections.
sus_block_time	Integer	Time to trigger the circuit breaker for suspended connections.

Table 4-343 TimeoutConfig

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

Table 4-344 Access_progress

Parameter	Type	Description
step	Integer	Step
status	Integer	Status

Status code: 400

Table 4-345 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-346 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-347 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "total": 1,
  "items": [ {
    "id": "ee896796e1a84f3f85865ae0853d8974",
    "hostname": "www.demo.com",
    "extend": { },
    "region": "xx-xx-1",
    "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](#).

4.2.2.3 Querying Domain Name Settings in Dedicated Mode

Function

This API is used for querying domain name settings in dedicated mode.

URI

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

Table 4-348 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 4-349 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 4-350 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 4-351 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
policyid	String	ID of the policy initially used to the domain name. It can be obtained by calling the ListPolicy API.
hostname	String	Domain name added to dedicated WAF.
domainid	String	User domain ID
project_id	String	Project ID
access_code	String	CNAME prefix
protocol	String	HTTP protocol
server	Array of PremiumWaf Server objects	Origin server details
certificateid	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.
certificatenam e	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.
proxy	Boolean	Whether the proxy is enabled. <ul style="list-style-type: none"> true: The proxy is enabled. false: The proxy is disabled.
locked	Integer	Locked Status Default: 0
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Parameter	Type	Description
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: disconnected • 1: connected
web_tag	String	Website name.
timestamp	Long	Time a domain name is added to WAF.
flag	Flag object	Special domain name identifier. This parameter is used for console only.
block_page	BlockPage object	Alarm configuration page
extend	Map<String,String>	Extended attribute
traffic_mark	TrafficMark object	Stream tag
timeout_config	TimeoutConfig object	Timeout settings
access_progress	Array of AccessProgress objects	Redundant parameter. It is used for console only.

Table 4-352 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Client protocol used to request access to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
back_protocol	String	Server protocol used when WAF forwards client requests to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	String	Public IP address or domain name of the origin server that the client accesses.
port	Integer	Port number used by the web server. The value ranges from 0 to 65535, for example, 8080.

Parameter	Type	Description
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. Perform the following steps to obtain the VPC ID: <ul style="list-style-type: none"> • 1.Find the name of the VPC where the dedicated engine is located. The VPC name is in the VPC\Subnet column. Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC \Subnet. • 2.Log in to the VPC console and click the VPC name. On the page displayed, copy the VPC ID in the VPC Information area.

Table 4-353 Flag

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

Parameter	Type	Description
cname	String	The CNAME record the domain name is using <ul style="list-style-type: none"> old: The domain name uses the old CNAME record. new: The domain name uses a new CNAME record. Enumeration values: <ul style="list-style-type: none"> old new
is_dual_az	String	Whether WAF supports multi-AZ DR. <ul style="list-style-type: none"> true: WAF supports multi-AZ disaster recovery (DR). false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> true false

Table 4-354 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	Redirection URL

Table 4-355 CustomPage

Parameter	Type	Description
status_code	String	Status code
content_type	String	Content type of alarm page
content	String	Page content

Table 4-356 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP address in the known attack source rule

Parameter	Type	Description
cookie	String	cookie
params	String	Parameters

Table 4-357 TimeoutConfig

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

Table 4-358 Access_progress

Parameter	Type	Description
step	Integer	Step
status	Integer	Status

Status code: 400

Table 4-359 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-360 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-361 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "protocol": "HTTPS",
  "server": [ {
    "address": "1.2.3.4",
    "port": 443,
    "type": "ipv4",
    "weight": 1,
    "front_protocol": "HTTPS",
    "back_protocol": "HTTPS",
    "vpc_id": "ebfc553a-386d-4746-b0c2-18ff3f0e903d"
  } ],
  "proxy": false,
  "locked": 0,
  "timestamp": 1650593801380,
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "domainid": "0ee78615ca08419f81f539d97c9ee353",
  "projectid": "550500b49078408682d0d4f7d923f3e1",
  "protect_status": 1,
  "access_status": 0,
  "certificateid": "360f992501a64de0a65c50a64d1ca7b3",
  "certificatename": "certificatename75315",
  "web_tag": "",
  "timeout_config": {
    "connect_timeout": 30,
    "read_timeout": 180,
    "send_timeout": 180
  }
}
```

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](#).

4.2.2.4 Modifying a Domain Name Protected by a Dedicated WAF Instance

Function

This API is used for modifying domain name settings in dedicated mode.

URI

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

Table 4-362 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 4-363 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 4-364 Request header parameters

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

Table 4-365 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used. <ul style="list-style-type: none"> true: The proxy is enabled. false: The proxy is disabled.
certificateid	No	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.
certificatenam e	No	String	HTTPS certificate name. It can be obtained by calling the ListCertificates API.
locked	No	Integer	Whether the host is locked.
protect_status	No	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Parameter	Mandatory	Type	Description
access_status	No	Integer	Whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: disconnected • 1: connected
timestamp	No	Integer	Time stamp
block_page	No	BlockPage object	Alarm configuration page
traffic_mark	No	TrafficMark object	Stream tag
flag	No	Map<String,String>	Special domain name identifier. This parameter is used for console only.
extend	No	Map<String,String>	Extended field
circuit_breaker	No	CircuitBreaker object	Circuit breaker configuration
timeout_config	No	TimeoutConfig object	Timeout settings

Table 4-366 BlockPage

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

Table 4-367 CustomPage

Parameter	Mandatory	Type	Description
status_code	Yes	String	Status code
content_type	Yes	String	Content type of alarm page
content	Yes	String	Page content

Table 4-368 TrafficMark

Parameter	Mandatory	Type	Description
sip	No	Array of strings	IP address in the known attack source rule
cookie	No	String	cookie
params	No	String	Parameters

Table 4-369 CircuitBreaker

Parameter	Mandatory	Type	Description
switch	No	Boolean	Circuit breaker switch
dead_num	No	Integer	Threshold for the number of unreachable origin servers.
dead_ratio	No	Number	Threshold for the percentage of unreachable origin servers.
block_time	No	Integer	Time to trigger the circuit breaker for unreachable origin servers.
superposition_num	No	Integer	Number of reached thresholds to trigger the circuit breaker.
suspend_num	No	Integer	Threshold for suspended connections.
sus_block_time	No	Integer	Time to trigger the circuit breaker for suspended connections.

Table 4-370 TimeoutConfig

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

Response Parameters

Status code: 200

Table 4-371 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
policyid	String	ID of the policy initially used to the domain name. It can be obtained by calling the ListPolicy API.
hostname	String	Domain name added to dedicated WAF.
domainid	String	User domain ID
project_id	String	Project ID
access_code	String	CNAME prefix
protocol	String	HTTP protocol
server	Array of PremiumWaf Server objects	Origin server details
certificateid	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.
certificatenam e	String	Certificate name. <ul style="list-style-type: none"> This parameter is not required if Client Protocol is set to HTTP. This parameter is mandatory if Client Protocol is set to HTTPS.
proxy	Boolean	Whether the proxy is enabled. <ul style="list-style-type: none"> true: The proxy is enabled. false: The proxy is disabled.
locked	Integer	Locked Status Default: 0

Parameter	Type	Description
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> • -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. • 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. • 1: Enabled. WAF detects attacks based on the configured policy.
access_status	Integer	Specifies whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: disconnected • 1: connected
web_tag	String	Website name.
timestamp	Long	Time a domain name is added to WAF.
flag	Flag object	Special domain name identifier. This parameter is used for console only.
block_page	BlockPage object	Alarm configuration page
extend	Map<String,String>	Extended attribute
traffic_mark	TrafficMark object	Stream tag
timeout_config	TimeoutConfig object	Timeout settings
access_progress	Array of Access_progress objects	Redundant parameter. It is used for console only.

Table 4-372 PremiumWafServer

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

Parameter	Type	Description
back_protocol	String	Server protocol used when WAF forwards client requests to the origin server. Enumeration values: <ul style="list-style-type: none"> • HTTP • HTTPS
address	String	Public IP address or domain name of the origin server that the client accesses.
port	Integer	Port number used by the web server. The value ranges from 0 to 65535, for example, 8080.
type	String	The origin server address is an IPv4 or IPv6 address. Enumeration values: <ul style="list-style-type: none"> • ipv4 • ipv6
vpc_id	String	VPC ID. Perform the following steps to obtain the VPC ID: <ul style="list-style-type: none"> • 1.Find the name of the VPC where the dedicated engine is located. The VPC name is in the VPC\Subnet column. Log in to the WAF console and choose Instance Management > Dedicated Engine > VPC \Subnet. • 2.Log in to the VPC console and click the VPC name. On the page displayed, copy the VPC ID in the VPC Information area.

Table 4-373 Flag

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

Parameter	Type	Description
pci_dss	String	Whether your website passes PCI DSS check <ul style="list-style-type: none"> • true: Your website passed the PCI DSS check. • false: Your website failed the PCI DSS check. Enumeration values: <ul style="list-style-type: none"> • true • false
cname	String	The CNAME record the domain name is using <ul style="list-style-type: none"> • old: The domain name uses the old CNAME record. • new: The domain name uses a new CNAME record. Enumeration values: <ul style="list-style-type: none"> • old • new
is_dual_az	String	Whether WAF supports multi-AZ DR. <ul style="list-style-type: none"> • true: WAF supports multi-AZ disaster recovery (DR). • false: WAF does not support multi-AZ DR. Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-374 BlockPage

Parameter	Type	Description
template	String	Template name
custom_page	CustomPage object	Custom alarm page
redirect_url	String	Redirection URL

Table 4-375 CustomPage

Parameter	Type	Description
status_code	String	Status code
content_type	String	Content type of alarm page

Parameter	Type	Description
content	String	Page content

Table 4-376 TrafficMark

Parameter	Type	Description
sip	Array of strings	IP address in the known attack source rule
cookie	String	cookie
params	String	Parameters

Table 4-377 TimeoutConfig

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

Table 4-378 Access_progress

Parameter	Type	Description
step	Integer	Step
status	Integer	Status

Status code: 400

Table 4-379 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-380 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-381 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}?enterprise_project_id=0
{
  "proxy" : false
}
```

Example Responses

Status code: 200

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

```
"web_tag" : ""
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.2.5 Deleting a Domain Name from a Dedicated WAF Instance

Function

This API is used for deleting a domain name from a dedicated WAF instance.

URI

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

Table 4-382 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 4-383 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.

Parameter	Mandatory	Type	Description
keepPolicy	No	Boolean	Whether to retain the rule Default: false

Request Parameters

Table 4-384 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 4-385 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
policyid	String	Policy ID
region	String	Region ID
protect_status	Integer	WAF status of the protected domain name. <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Parameter	Type	Description
access_status	Integer	Whether a domain name is connected to WAF. <ul style="list-style-type: none"> • 0: disconnected • 1: connected
flag	Map<String,String>	Special domain name identifier. This parameter is used for console only.

Status code: 400

Table 4-386 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-387 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-388 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "ee896796e1a84f3f85865ae0853d8974",
  "hostname": "www.demo.com",
  "region": "xx-xx-1",
  "flag": {
    "pci_3ds": "false",
    "pci_dss": "false"
  },
  "description": "",
  "policyid": "df15d0eb84194950a8fdc615b6c012dc",
  "protect_status": 1,
  "access_status": 0,
  "web_tag": "",
  "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](#).

4.2.3 Protection Status and Domain Name Access

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

Function

This API is used for modifying the protection status of a domain name in dedicated mode.

URI

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

Table 4-389 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Parameter	Mandatory	Type	Description
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Table 4-390 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 4-391 Request header parameters

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

Table 4-392 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	Yes	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Response Parameters

Status code: 200

Table 4-393 Response body parameters

Parameter	Type	Description
protect_status	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. 1: Enabled. WAF detects attacks based on the configured policy.

Status code: 400

Table 4-394 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-395 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-396 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

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](#).

4.2.3.2 Modifying the Access Status of a Domain Name in Dedicated Mode

Function

This API is used for modifying the access status of a domain name in dedicated mode.

URI

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

Table 4-397 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of the domain name protected by the dedicated WAF engine

Request Parameters

Table 4-398 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).

Table 4-399 Request body parameters

Parameter	Mandatory	Type	Description
access_status	No	Integer	Whether WAF is connected. <ul style="list-style-type: none"> 0: disconnected 1: connected

Parameter	Mandatory	Type	Description
protect_status	No	Integer	<p>WAF status of the protected domain name.</p> <ul style="list-style-type: none"> • -1: Bypassed. Requests are directly sent to the backend servers without passing through WAF. • 0: Suspended. WAF only forwards requests for the domain name but does not detect attacks. • 1: Enabled. WAF detects attacks based on the configured policy.

Response Parameters

Status code: 200

Table 4-400 Response body parameters

Parameter	Type	Description
access_status	Integer	<p>Whether WAF is connected.</p> <ul style="list-style-type: none"> • 0: disconnected • 1: connected

Status code: 400

Table 4-401 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-402 Response body parameters

Parameter	Type	Description
error_code	String	Error Code

Parameter	Type	Description
error_msg	String	Error Messages

Status code: 500

Table 4-403 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/premium-waf/host/{host_id}/access_status
{
  "access_status": 1
}
```

Example Responses

Status code: 200

ok

```
{
  "access_status": 1,
  "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](#).

4.2.4 Policy Management

4.2.4.1 Querying the Policy List

Function

This API is used to query the list of policies.

URI

GET /v1/{project_id}/waf/policy

Table 4-404 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-405 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 of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10
name	No	String	Policy name

Request Parameters

Table 4-406 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 4-407 Response body parameters

Parameter	Type	Description
total	Integer	Total number of policies
items	Array of PolicyResponse objects	Policy objects

Table 4-408 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	PolicyAction object	This API is used to set policy actions.
options	PolicyOption object	This API is used to set policy options.

Parameter	Type	Description
level	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.
bind_host	Array of BindHost objects	Basic information about the protected domain.
timestamp	Long	Time a policy is created
extend	Map<String,String>	Extended field

Table 4-409 PolicyAction

Parameter	Type	Description
category	String	<p>Protection categories. Available values include:</p> <ul style="list-style-type: none"> • log: WAF only logs detected attacks. • block: WAF blocks attacks. <p>Enumeration values:</p> <ul style="list-style-type: none"> • block • log

Table 4-410 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

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

Parameter	Type	Description
bot_enable	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-411 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-412 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-413 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-414 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "total": 1,
  "items": [ {
    "id": "41cba8aee2e94bcdbf57460874205494",
    "name": "policy_2FHwFOKz",
    "level": 2,
    "action": {
      "category": "log",
      "modulex_category": "log"
    },
    "options": {
      "webattack": true,
      "common": true,
      "crawler": true,
      "crawler_engine": false,
      "crawler_scanner": true,
      "crawler_script": false,
      "crawler_other": false,
      "webshell": false,
      "cc": true,
      "custom": true,
      "precise": false,
      "whiteblackip": true,
      "geoup": true,
      "ignore": true,
      "privacy": true,
      "antitamper": true,
      "anticrawler": false,
      "antileakage": false,
      "followed_action": false,
      "bot_enable": true
    },
    "hosts": [ ],
    "extend": { },
    "timestamp": 1650527546218,
    "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](#).

4.2.4.2 Creating a Policy

Function

This API is used for creating a protection policy.

URI

POST /v1/{project_id}/waf/policy

Table 4-415 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-416 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 4-417 Request header parameters

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

Table 4-418 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Policy name

Response Parameters

Status code: 200

Table 4-419 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	PolicyAction object	This API is used to set policy actions.
options	PolicyOption object	This API is used to set policy options.

Parameter	Type	Description
level	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.
bind_host	Array of BindHost objects	Basic information about the protected domain
timestamp	Integer	Time a policy is created
extend	Map<String,String>	Extended field

Table 4-420 PolicyAction

Parameter	Type	Description
category	String	<p>Protection categories. Available values include:</p> <ul style="list-style-type: none"> • log: WAF only logs detected attacks. • block: WAF blocks attacks. <p>Enumeration values:</p> <ul style="list-style-type: none"> • block • log

Table 4-421 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

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

Parameter	Type	Description
bot_enable	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-422 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-423 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-424 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 403

Table 4-425 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-426 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

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

```
"bot_enable" : true
},
"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	Insufficient resource quota.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.4.3 Querying a Policy by ID

Function

This API is used to query a policy by ID.

URI

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

Table 4-427 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-428 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 4-429 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 4-430 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	PolicyAction object	This API is used to set policy actions.
options	PolicyOption object	This API is used to set policy options.

Parameter	Type	Description
level	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.
bind_host	Array of BindHost objects	Basic information about the protected domain
timestamp	Integer	Time a policy is created
extend	Map<String,String>	Extended field

Table 4-431 PolicyAction

Parameter	Type	Description
category	String	<p>Protection categories. Available values include:</p> <ul style="list-style-type: none"> • log: WAF only logs detected attacks. • block: WAF blocks attacks. <p>Enumeration values:</p> <ul style="list-style-type: none"> • block • log

Table 4-432 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

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

Parameter	Type	Description
bot_enable	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-433 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-434 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-435 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-436 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

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

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.4.4 Updating a Policy

Function

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

URI

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

Table 4-437 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-438 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 4-439 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 4-440 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Policy name
action	No	PolicyAction object	This API is used to set policy actions.
options	No	PolicyOption object	This API is used to set policy options.

Parameter	Mandatory	Type	Description
level	No	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	No	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.

Table 4-441 PolicyAction

Parameter	Mandatory	Type	Description
category	No	String	Protection categories. Available values include: <ul style="list-style-type: none"> log: WAF only logs detected attacks. block: WAF blocks attacks. Enumeration values: <ul style="list-style-type: none"> block log

Table 4-442 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> true false
common	No	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler	No	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler_engine	No	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler_scanner	No	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> true false

Parameter	Mandatory	Type	Description
crawler_script	No	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	No	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	No	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
cc	No	Boolean	Whether the CC attack protection rules are enabled Enumeration values: <ul style="list-style-type: none"> • true • false
custom	No	Boolean	Whether precise protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
geoip	No	Boolean	Whether geolocation access control is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Parameter	Mandatory	Type	Description
ignore	No	Boolean	Whether false alarm masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
privacy	No	Boolean	Whether data masking is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antitamper	No	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	No	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	No	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Response Parameters

Status code: 200

Table 4-443 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	PolicyAction object	This API is used to set policy actions.

Parameter	Type	Description
options	PolicyOption object	This API is used to set policy options.
level	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.
bind_host	Array of BindHost objects	Basic information about the protected domain
timestamp	Integer	Time a policy is created
extend	Map<String,String>	Extended field

Table 4-444 PolicyAction

Parameter	Type	Description
category	String	Protection categories. Available values include: <ul style="list-style-type: none"> log: WAF only logs detected attacks. block: WAF blocks attacks. Enumeration values: <ul style="list-style-type: none"> block log

Table 4-445 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> true false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> true false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> true false

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

Parameter	Type	Description
antitamper	Boolean	Whether the web tamper protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
antileakage	Boolean	Whether the information leakage prevention is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
bot_enable	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-446 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-447 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-448 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-449 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

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



```

"antileakage" : false,
"followed_action" : false,
"bot_enable" : true
},
"hosts" : [ "c0268b883a854adc8a2cd352193b0e13" ],
"timestamp" : 1650529538732,
"full_detection" : false,
"bind_host" : [ {
  "id" : "c0268b883a854adc8a2cd352193b0e13",
  "hostname" : "www.demo.com",
  "waf_type" : "cloud"
} ],
"share_info" : {
  "is_receiver" : false,
  "provider_display" : {
    "share_count" : 0,
    "accept_count" : 0,
    "process_status" : 0
  }
}
}
}

```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.4.5 Deleting a Policy

Function

This API is used for deleting a protection policy.

URI

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

Table 4-450 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-451 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 4-452 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 4-453 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	PolicyAction object	This API is used to set policy actions.
options	PolicyOption object	This API is used to set policy options.

Parameter	Type	Description
level	Integer	<p>Protection level</p> <ul style="list-style-type: none"> • 1: WAF detects wget, cURL, and more but does not detect XSS and command injection attacks in the header, so you may miss more vulnerabilities that in fact exist. If you find out that configured protection rules are affecting your services, adjust the protection level to 1. • 2: WAF detects remote file inclusion, third-party software vulnerabilities, webshell, and cp and ftp commands. This is the default value. • 3: If you need a stricter protection level, set this parameter to 3. This may increase the false positive rate but decrease the false negative rate, such as nc, nmap, and kill.
full_detection	Boolean	<p>Detection mode in the precise protection rule</p> <ul style="list-style-type: none"> • true: full detection. WAF blocks all requests that hit the configured precise protection rule when it finishes all threat detections. • false: instant detection. WAF immediately ends threat detection and blocks the request that hits the configured precise protection rule.
bind_host	Array of BindHost objects	Basic information about the protected domain
timestamp	Integer	Time a policy is created
extend	Map<String,String>	Extended field

Table 4-454 PolicyAction

Parameter	Type	Description
category	String	<p>Protection categories. Available values include:</p> <ul style="list-style-type: none"> • log: WAF only logs detected attacks. • block: WAF blocks attacks. <p>Enumeration values:</p> <ul style="list-style-type: none"> • block • log

Table 4-455 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
common	Boolean	Whether general check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler	Boolean	Whether anti-crawler protection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_engine	Boolean	Whether the search engine is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_scanner	Boolean	Whether the anti-crawler detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_script	Boolean	Whether the JavaScript anti-crawler is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
crawler_other	Boolean	Whether other crawler check is enabled Enumeration values: <ul style="list-style-type: none"> • true • false
webshell	Boolean	Whether webshell detection is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

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

Parameter	Type	Description
bot_enable	Boolean	Whether bot mitigation is enabled Enumeration values: <ul style="list-style-type: none"> • true • false

Table 4-456 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-457 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-458 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-459 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "62169e2fc4e64148b775ec01b24a1947",
  "name": "demo",
  "level": 2,
  "action": {
    "category": "log",
    "modulex_category": "log"
  },
  "options": {
    "webattack": true,
    "common": true,
    "crawler": true,
    "crawler_engine": false,
    "crawler_scanner": true,
    "crawler_script": false,
    "crawler_other": false,
    "webshell": false,
    "cc": true,
    "custom": true,
    "precise": false,
    "whiteblackip": true,
    "geoip": true,
    "ignore": true,
    "privacy": true,
    "antitamper": true,
    "anticrawler": false,
    "antileakage": false,
    "followed_action": false,
    "bot_enable": true
  },
  "hosts": [ ],
  "extend": { },
  "timestamp": 1649316510603,
  "full_detection": false,
  "bind_host": [ ]
}
```

Status Codes

Status Code	Description
200	ok

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

Error Codes

See [Error Codes](#).

4.2.5 Blacklist and Whitelist Rule Management

4.2.5.1 Querying the Blacklist and Whitelist Rule List

Function

This API is used to query blacklist and whitelist rules.

URI

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

Table 4-460 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-461 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.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10
name	No	String	Rule name

Request Parameters

Table 4-462 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).
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-463 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules
items	Array of WhiteBlackIpResponseBody objects	Rules

Table 4-464 WhiteBlackIpResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Rule creation timestamp
description	String	Rule description
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
addr	String	Blacklist/Whitelist
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks the requests that hit the rule. ● 1: WAF allows the requests that hit the rule. ● 2: WAF only logs the requests that hit the rule.

Status code: 400

Table 4-465 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-466 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-467 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

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",
    "policyname": "hkhtest",
    "timestamp": 1650362891844,
    "description": "demo",
    "status": 1,
    "addr": "x.x.x.x",
    "white": 0
  } ]
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.5.2 Creating a Blacklist or Whitelist Rule

Function

This API is used for creating a blacklist or whitelist rule.

URI

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

Table 4-468 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-469 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 4-470 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 4-471 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rue name. The value can contain a maximum of 64 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed.

Parameter	Mandatory	Type	Description
addr	Yes	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 10.123.120.66 or 10.123.120.0/16.
description	No	String	Rule description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks the requests that hit the rule. • 1: WAF allows the requests that hit the rule. • 2: WAF only logs the requests that hit the rule.

Response Parameters

Status code: 200

Table 4-472 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 10.123.120.66 or 10.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks the requests that hit the rule. • 1: WAF allows the requests that hit the rule. • 2: WAF only logs the requests that hit the rule.
timestamp	Long	Time a rule is created. The value is a 13-digit timestamp in millisecond.

Status code: 400

Table 4-473 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-474 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-475 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

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

```
"size" : 1
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.5.3 Querying a Blacklist or Whitelist Rule

Function

This API is used to query a blacklist/whitelist protection rule by ID.

URI

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

Table 4-476 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	project_id
policy_id	Yes	String	policyid
rule_id	Yes	String	whiteblackIpRuleId

Request Parameters

Table 4-477 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token

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

Response Parameters

Status code: 200

Table 4-478 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
addr	String	IP addresses in the blacklist or whitelist rule
description	String	Rule description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks the requests that hit the rule. • 1: WAF allows the requests that hit the rule. • 2: WAF only logs the requests that hit the rule.

Status code: 400

Table 4-479 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-480 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-481 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

None

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](#).

4.2.5.4 Updating a Blacklist or Whitelist Rule

Function

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

URI

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

Table 4-482 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ID of the blacklist or whitelist rule. It can be obtained by calling the ListWhiteblackipRule API.

Table 4-483 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 4-484 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 4-485 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rule name
addr	Yes	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 10.123.120.66 or 10.123.120.0/16.
description	No	String	Rule description

Parameter	Mandatory	Type	Description
white	Yes	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks the requests that hit the rule. • 1: WAF allows the requests that hit the rule. • 2: WAF only logs the requests that hit the rule.

Response Parameters

Status code: 200

Table 4-486 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
addr	String	IP addresses in the blacklist or whitelist rule
description	String	Rule description
white	Integer	Protective action <ul style="list-style-type: none"> • 0: WAF blocks the requests that hit the rule. • 1: WAF allows the requests that hit the rule. • 2: WAF only logs the requests that hit the rule.

Status code: 400

Table 4-487 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-488 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-489 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}?enterprise_project_id=0
{
  "name" : "demo",
  "white" : 0,
  "description" : "demo",
  "addr" : "10.1.1.2"
}
```

Example Responses

Status code: 200

ok

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

Status Codes

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

Status Code	Description
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.5.5 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 4-490 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ID of the blacklist or whitelist rule. It can be obtained by calling the ListWhiteblackipRule API.

Table 4-491 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 4-492 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 4-493 Response body parameters

Parameter	Type	Description
id	String	Blacklist or whitelist rule ID
policyid	String	Policy ID
name	String	Rule name
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 (disabled) or 1 (enabled).
addr	String	IP address or IP address ranges in the blacklist or whitelist rule, for example, 10.123.120.66 or 10.123.120.0/16.
white	Integer	Protective action <ul style="list-style-type: none"> ● 0: WAF blocks the requests that hit the rule. ● 1: WAF allows the requests that hit the rule. ● 2: WAF only logs the requests that hit the rule.

Status code: 400

Table 4-494 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-495 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-496 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "5d43af25404341058d5ab17b7ba78b56",
  "policyid": "38ff0cb9a10e4d5293c642bc0350fa6d",
  "name": "demo",
  "timestamp": 1650531872900,
  "description": "demo",
  "status": 1,
  "addr": "10.1.1.2",
  "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](#).

4.2.6 CC Attack Protection Rule Management

4.2.6.1 Querying the CC Attack Protection Rule List

Function

This API is used to query the CC attack protection rules.

URI

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

Table 4-497 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-498 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10

Request Parameters

Table 4-499 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 4-500 Response body parameters

Parameter	Type	Description
total	Integer	Total number of CC prevention rules in a policy
items	Array of CcrulesListInfo objects	Objects of a CC prevention rule

Table 4-501 CcrulesListInfo

Parameter	Type	Description
id	String	ID of a CC prevention rule
policyid	String	ID of the policy to which the rule belongs
url	String	URL to which the rule applies, excluding a domain name. <ul style="list-style-type: none">• Prefix match: A path ending with * indicates that the path is used as a prefix. For example, to protect /admin/test.php or /adminabc, you can set Path to /admin*.• Exact match: The path to be entered must match the path to be protected. If the path to be protected is /admin, set url to /admin.
limit_num	String	Number of requests allowed from a web visitor in a rate limiting period
limit_period	String	Rate limiting period
lock_time	String	How long a web visitor will be locked The value range is [0 to 2 ³²), in seconds.
tag_type	String	Protection mode. <ul style="list-style-type: none">• ip: A website visitor is identified by the IP address.• cookie: A website visitor is identified by the cookie key value.• other: A website visitor is identified by the Referer field (user-defined request source).
tag_index	String	Protection mode tag. When tag_type is set to cookie, this parameter indicates the cookie name.
action	action object	Action to take if the number of requests reaches the upper limit.
timestamp	Long	Rule creation timestamp

Table 4-502 action

Parameter	Type	Description
category	String	Action type <ul style="list-style-type: none">• block: WAF blocks the requests.• captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page.• If tag_type is set to other, the value can only be block.
detail	String	Action details. If detail is null, the default block page is displayed by default. <ul style="list-style-type: none">• This parameter is not required if category is set to captcha.• This parameter is required if category is set to block.

Table 4-503 detail

Parameter	Type	Description
redirect_url	String	URL to which the page is redirected.
response	response object	Redirected page

Table 4-504 response

Parameter	Type	Description
content_type	String	Content type. The value can only be application/json, text/html, or text/xml.
content	String	Content

Status code: 400**Table 4-505** Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-506 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-507 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "total": 1,
  "items": [ {
    "aging_time": 0,
    "description": "",
    "id": "a5f3fd28db564696b199228f0ac346b2",
    "limit_num": 10,
    "limit_period": 60,
    "lock_time": 0,
    "mode": 0,
    "policyid": "1f016cde588646aca3fb19f277c44d03",
    "prefix": false,
    "producer": 1,
    "status": 1,
    "tag_type": "ip",
    "timestamp": 1656494435686,
    "total_num": 0,
    "unaggregation": false,
    "url": "/path"
  } ]
}
```

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](#).

4.2.6.2 Creating a CC Attack Protection Rule

Function

This API is used to create a CC attack protection rule.

URI

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

Table 4-508 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Request Parameters

Table 4-509 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Table 4-510 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Rule description
limit_num	No	Integer	Frequency limits Minimum: 0 Maximum: 10000
limit_period	No	Integer	Frequency limit unit Minimum: 0 Maximum: 10000
url	No	String	url Minimum: 0 Maximum: 10000
mode	No	Integer	Work mode. The value can be 0 (standard) or 1 (advanced). The parameters of the advanced mode cannot be described in the same document of the same API. For details, see this parameter on the console page. Enumeration values: <ul style="list-style-type: none"> • 0 • 1
action	No	action object	Action to take if the number of requests reaches the upper limit.
tag_type	No	String	Protection mode. <ul style="list-style-type: none"> • ip: A website visitor is identified by the IP address. • cookie: A website visitor is identified by the cookie key value. • other: A website visitor is identified by the Referer field (user-defined request source). Enumeration values: <ul style="list-style-type: none"> • ip • other • cookie

Table 4-511 action

Parameter	Mandatory	Type	Description
category	No	String	Protective action

Response Parameters

Status code: 200

Table 4-512 Response body parameters

Parameter	Type	Description
total	Integer	Number of CC prevention rules in the policy
items	Array of CcrulesListInfo objects	Objects of a CC prevention rule

Table 4-513 CcrulesListInfo

Parameter	Type	Description
id	String	ID of a CC prevention rule
policyid	String	ID of the policy to which the rule belongs
url	String	URL to which the rule applies, excluding a domain name. <ul style="list-style-type: none"> Prefix match: A path ending with * indicates that the path is used as a prefix. For example, to protect /admin/test.php or /adminabc, you can set Path to /admin*. Exact match: The path to be entered must match the path to be protected. If the path to be protected is /admin, set url to /admin.
limit_num	String	Number of requests allowed from a web visitor in a rate limiting period
limit_period	String	Rate limiting period
lock_time	String	How long a web visitor will be locked The value range is [0 to 2 ³²), in seconds.

Parameter	Type	Description
tag_type	String	Protection mode. <ul style="list-style-type: none"> ip: A website visitor is identified by the IP address. cookie: A website visitor is identified by the cookie key value. other: A website visitor is identified by the Referer field (user-defined request source).
tag_index	String	Protection mode tag. When tag_type is set to cookie, this parameter indicates the cookie name.
action	action object	Action to take if the number of requests reaches the upper limit.
timestamp	Long	Rule creation timestamp

Table 4-514 action

Parameter	Type	Description
category	String	Action type <ul style="list-style-type: none"> block: WAF blocks the requests. captcha: Verification code. The user needs to enter the correct verification code after blocking to restore the correct access page. If tag_type is set to other, the value can only be block.
detail	String	Action details. If detail is null, the default block page is displayed by default. <ul style="list-style-type: none"> This parameter is not required if category is set to captcha. This parameter is required if category is set to block.

Table 4-515 detail

Parameter	Type	Description
redirect_url	String	URL to which the page is redirected.
response	response object	Redirected page

Table 4-516 response

Parameter	Type	Description
content_type	String	Content type. The value can only be application/json, text/html, or text/xml.
content	String	Content

Status code: 400

Table 4-517 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-518 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-519 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/cc?enterprise_project_id=0
{
  "action" : {
    "category" : "captcha"
  },
  "description" : "",
  "limit_num" : 10,
  "limit_period" : 60,
```

```
"mode" : 0,  
"tag_type" : "ip",  
"url" : "/path"  
}
```

Example Responses

Status code: 200

ok

```
{  
  "aging_time" : 0,  
  "description" : "",  
  "id" : "a5f3fd28db564696b199228f0ac346b2",  
  "limit_num" : 10,  
  "limit_period" : 60,  
  "lock_time" : 0,  
  "mode" : 0,  
  "policyid" : "1f016cde588646aca3fb19f277c44d03",  
  "prefix" : false,  
  "producer" : 1,  
  "status" : 1,  
  "tag_type" : "ip",  
  "timestamp" : 1656494435686,  
  "total_num" : 0,  
  "unaggregation" : false,  
  "url" : "/path"  
}
```

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](#).

4.2.6.3 Querying a CC Attack Protection Rule by ID.

Function

This API is used to query a CC attack protection rule by ID.

URI

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

Table 4-520 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ccRuleId

Request Parameters

Table 4-521 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-522 Response body parameters

Parameter	Type	Description
id	String	ID of a CC prevention rule
policyid	String	ID of the policy to which the rule belongs
url	String	URL to which the rule applies, excluding a domain name. <ul style="list-style-type: none">• Prefix match: A path ending with * indicates that the path is used as a prefix. For example, to protect /admin/test.php or /adminabc, you can set Path to /admin*.• Exact match: The path you enter must exactly match the path you want to protect. If the path you want to protect is /admin, set url to /admin.
limit_num	String	Number of requests allowed from a web visitor in a rate limiting period

Parameter	Type	Description
limit_period	String	Rate limiting period
lock_time	String	How long a web visitor will be locked The value range is [0 to 2 ³²), in seconds.
tag_type	String	Protection mode. <ul style="list-style-type: none"> ip: A website visitor is identified by the IP address. cookie: A website visitor is identified by the cookie key value. other: A website visitor is identified by the Referer field (user-defined request source).
tag_index	String	Protection mode tag. When tag_type is set to cookie, this parameter indicates the cookie name.
action	action object	Action to take if the number of requests reaches the upper limit.
timestamp	Long	Rule creation timestamp

Table 4-523 action

Parameter	Type	Description
category	String	Action type: <ul style="list-style-type: none"> block: WAF blocks the requests. captcha: Verification code. WAF requires visitors to enter a correct verification code to continue their access to requested page on your website. If tag_type is set to other, the value can only be block.
detail	String	Action details. If detail is null, the default block page is displayed by default. <ul style="list-style-type: none"> This parameter is not required if category is set to captcha. This parameter is required if category is set to block.

Table 4-524 detail

Parameter	Type	Description
redirect_url	String	URL to which the page is redirected.

Parameter	Type	Description
response	response object	Redirected page

Table 4-525 response

Parameter	Type	Description
content_type	String	Content type. The value can only be application/json, text/html, or text/xml.
content	String	Contents

Status code: 400

Table 4-526 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-527 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-528 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "aging_time" : 0,
  "description" : "",
  "id" : "a5f3fd28db564696b199228f0ac346b2",
  "limit_num" : 10,
  "limit_period" : 60,
  "lock_time" : 0,
  "mode" : 0,
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "prefix" : false,
  "producer" : 1,
  "status" : 1,
  "tag_type" : "ip",
  "timestamp" : 1656494435686,
  "total_num" : 0,
  "unaggregation" : false,
  "url" : "/path"
}
```

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](#).

4.2.6.4 Updating a CC Attack Protection Rule

Function

This API is used to update a CC attack protection rule.

URI

```
PUT /v1/{project_id}/waf/policy/{policy_id}/cc/{rule_id}
```

Table 4-529 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	policyid
rule_id	Yes	String	ccRuleId

Request Parameters

Table 4-530 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/ json;charset=utf8

Table 4-531 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Rule description
limit_num	No	Integer	Frequency limits Minimum: 0 Maximum: 10000
limit_period	No	Integer	Frequency limit unit Minimum: 0 Maximum: 10000
url	No	String	url Minimum: 0 Maximum: 10000

Parameter	Mandatory	Type	Description
mode	No	Integer	Work mode. The value can be 0 (standard) or 1 (advanced). The parameters of the advanced mode cannot be described in the same document of the same API. For details, see this parameter on the console page. Enumeration values: <ul style="list-style-type: none"> • 0 • 1
action	No	action object	Action to take if the number of requests reaches the upper limit.
tag_type	No	String	Protection mode. <ul style="list-style-type: none"> • ip: A website visitor is identified by the IP address. • cookie: A website visitor is identified by the cookie key value. • other: A website visitor is identified by the Referer field (user-defined request source). Enumeration values: <ul style="list-style-type: none"> • ip • other • cookie

Table 4-532 action

Parameter	Mandatory	Type	Description
category	No	String	Protective action

Response Parameters

Status code: 200

Table 4-533 Response body parameters

Parameter	Type	Description
id	String	ID of a CC prevention rule
policyid	String	ID of the policy to which the rule belongs
url	String	URL to which the rule applies, excluding a domain name. <ul style="list-style-type: none"> Prefix match: A path ending with * indicates that the path is used as a prefix. For example, to protect /admin/test.php or /adminabc, you can set Path to /admin*. Exact match: The path you enter must exactly match the path you want to protect. If the path you want to protect is /admin, set url to /admin.
limit_num	String	Number of requests allowed from a web visitor in a rate limiting period
limit_period	String	Rate limiting period
lock_time	String	How long a web visitor will be locked The value range is [0 to 2 ³²], in seconds.
tag_type	String	Protection mode. <ul style="list-style-type: none"> ip: A website visitor is identified by the IP address. cookie: A website visitor is identified by the cookie key value. other: A website visitor is identified by the Referer field (user-defined request source).
tag_index	String	Protection mode tag. When tag_type is set to cookie, this parameter indicates the cookie name.
action	action object	Action to take if the number of requests reaches the upper limit.

Table 4-534 action

Parameter	Type	Description
category	String	Action type: <ul style="list-style-type: none"> • block: WAF blocks the requests. • captcha: Verification code. WAF requires visitors to enter a correct verification code to continue their access to requested page on your website. • If tag_type is set to other, the value can only be block.
detail	String	Action details. If detail is null, the default block page is displayed by default. <ul style="list-style-type: none"> • This parameter is not required if category is set to captcha. • This parameter is required if category is set to block.

Table 4-535 detail

Parameter	Type	Description
redirect_url	String	URL to which the page is redirected.
response	response object	Redirected page

Table 4-536 response

Parameter	Type	Description
content_type	String	Content type. The value can only be application/json, text/html, or text/xml.
content	String	Content

Status code: 400

Table 4-537 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-538 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-539 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/cc/{rule_id}?enterprise_project_id=0
{
  "action": {
    "category": "captcha"
  },
  "description": "",
  "limit_num": 10,
  "limit_period": 60,
  "mode": 0,
  "tag_type": "ip",
  "url": "/path1"
}
```

Example Responses

Status code: 200

ok

```
{
  "aging_time": 0,
  "description": "",
  "id": "a5f3fd28db564696b199228f0ac346b2",
  "limit_num": 10,
  "limit_period": 60,
  "lock_time": 0,
  "mode": 0,
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "prefix": false,
  "producer": 1,
  "status": 1,
  "tag_type": "ip",
  "total_num": 0,
  "unaggregation": false,
  "url": "/path1"
}
```

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](#).

4.2.6.5 Deleting a CC Attack Protection Rule

Function

This API is used to delete a CC attack protection rule.

URI

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

Table 4-540 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ccRuleId

Request Parameters

Table 4-541 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json; charset=utf8

Response Parameters

Status code: 400

Table 4-542 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-543 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-544 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "aging_time" : 0,
  "description" : "",
  "id" : "a5f3fd28db564696b199228f0ac346b2",
  "limit_num" : 10,
  "limit_period" : 60,
  "lock_time" : 0,
  "mode" : 0,
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "prefix" : false,
  "producer" : 1,
```

```
"status" : 1,  
"tag_type" : "ip",  
"timestamp" : 1656494435686,  
"total_num" : 0,  
"unaggregation" : false,  
"url" : "/path1"  
}
```

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](#).

4.2.7 Precise Protection Rule Management

4.2.7.1 Querying Precise Protection Rules

Function

This API is used to query precise protection rules.

URI

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

Table 4-545 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-546 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10

Request Parameters

Table 4-547 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-548 Response body parameters

Parameter	Type	Description
total	Integer	Total number of precise protection rules in a policy.
items	Array of objects	Objects of a precise protection rule.

Table 4-549 CustomRuleBody

Parameter	Type	Description
id	String	ID of a precise protection rule.
policyid	String	ID of the policy to which the rule belongs.
conditions	Array of conditions objects	List of rule conditions. All conditions must be met.
action	action object	Protective action of the precise protection rule.
priority	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. Value range: 0 to 1000.
timestamp	Long	Timestamp when the precise protection rule is created.
start	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.
terminal	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.

Table 4-550 conditions

Parameter	Type	Description
category	String	Field type. The option can be path, user-agent, ip, params, cookie, referer, or header.
index	String	The parameter value varies depending on the value of category: <ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.
check_all_indexes_logic	Integer	check_all_indexes_logic is not required only when you use custom subfields or the field type is url or ip. Otherwise, the value can be: <ul style="list-style-type: none"> • 1: All subfields will be checked. • 2: A random subfield will be checked. • null: A custom subfield will be used.

Parameter	Type	Description
logic	Integer	Logic options for a condition. contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	Array of strings	Content of the conditions.

Table 4-551 action

Parameter	Type	Description
category	String	Action type. <ul style="list-style-type: none"> • block: WAF blocks attacks. • pass: WAF allows requests.

Status code: 400

Table 4-552 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-553 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-554 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "items": [ {
    "category": "block",
    "action_mode": false,
    "aging_time": 0,
    "conditions": [ {
      "category": "header",
      "index": "sdfsafsd",
      "logic_operation": "exist"
    } ],
    "description": "",
    "id": "2a3caa2bc9814c09ad73d02e3485b4a4",
    "policyid": "1f016cde588646aca3fb19f277c44d03",
    "priority": 50,
    "producer": 1,
    "status": 1,
    "time": false,
    "timestamp": 1656495488880
  } ],
  "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](#).

4.2.7.2 Creating a Precise Protection Rule

Function

This API is used to create a precise protection rule.

URI

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

Table 4-555 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Request Parameters

Table 4-556 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json; charset=utf8

Table 4-557 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the custom rule
time	No	Boolean	Time the precise protection rule takes effect. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: The effective time is customized.

Parameter	Mandatory	Type	Description
start	No	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.
terminal	No	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.
conditions	No	Array of CustomConditions objects	Match condition List
action	No	CustomAction object	Protective action of the precise protection rule
priority	No	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 1000.

Table 4-558 CustomConditions

Parameter	Mandatory	Type	Description
category	No	String	The condition types can be path, user-agent, ip, params, cookie, referer, or header.
index	No	String	<ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.
check_all_indexes_logic	No	Integer	Available values are 1 and 2. The value 1 indicates all subfields, and the value 2 indicates any subfields.

Parameter	Mandatory	Type	Description
logic	No	Integer	contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	No	Array of strings	Content of the match conditions
value_list_id	No	String	ID of the reference table

Table 4-559 CustomAction

Parameter	Mandatory	Type	Description
category	No	String	Action type. <ul style="list-style-type: none"> • block: WAF blocks attacks. • pass: WAF allows requests.

Response Parameters

Status code: 200

Table 4-560 Response body parameters

Parameter	Type	Description
id	String	ID of a precise protection rule.
policyid	String	ID of the policy to which the rule belongs.
conditions	Array of conditions objects	List of matching conditions. All conditions must be met.
action	action object	Protective action of the precise protection rule
priority	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 1000.
timestamp	Long	Timestamp when the precise protection rule is created.

Parameter	Type	Description
start	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.
terminal	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.

Table 4-561 conditions

Parameter	Type	Description
category	String	Condition type. Its option can be path, user-agent, ip, params, cookie, referer, or header.
index	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
check_all_indexes_logic	Integer	Available values are 1 and 2. The value 1 indicates all subfields, and the value 2 indicates any subfields.
logic	Integer	contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	Array of strings	Content of the match conditions

Table 4-562 action

Parameter	Type	Description
category	String	Action type. <ul style="list-style-type: none"> block: WAF blocks attacks. pass: WAF allows requests.

Status code: 400

Table 4-563 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-564 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-565 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/custom?enterprise_project_id=0
{
  "description" : "",
  "action" : {
    "category" : "block"
  },
  "priority" : 50,
  "conditions" : [ {
    "category" : "header",
    "logic_operation" : "exist",
    "index" : "sdfsafsda"
  } ],
  "time" : false
}
```

Example Responses

Status code: 200

ok

```
{
  "items" : [ {
```

```

"action" : {
  "category" : "block"
},
"action_mode" : false,
"aging_time" : 0,
"conditions" : [ {
  "category" : "header",
  "index" : "sdfsafdsa",
  "logic_operation" : "exist"
} ],
"description" : "",
"id" : "2a3caa2bc9814c09ad73d02e3485b4a4",
"policyid" : "1f016cde588646aca3fb19f277c44d03",
"priority" : 50,
"producer" : 1,
"status" : 1,
"time" : false,
"timestamp" : 1656495488880
} ]
}

```

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](#).

4.2.7.3 Querying a Precise Protection Rule by ID

Function

This API is used to query a precise protection rule by ID.

URI

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

Table 4-566 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	customRuleId

Request Parameters

Table 4-567 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-568 Response body parameters

Parameter	Type	Description
id	String	ID of a precise protection rule.
policyid	String	ID of the policy to which the rule belongs.
conditions	Array of conditions objects	List of matching conditions. All conditions must be met.
action	action object	Protective action of the precise protection rule
priority	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 1000.
timestamp	Long	Timestamp when the precise protection rule is created.
start	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.

Parameter	Type	Description
terminal	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.

Table 4-569 conditions

Parameter	Type	Description
category	String	Condition type. Its option can be path, user-agent, ip, params, cookie, referer, or header.
index	String	<ul style="list-style-type: none"> If category is set to cookie, index indicates cookie name. If category is set to params, index indicates param name. If category is set to header, index indicates an option in the header.
check_all_indexes_logic	Integer	Available values are 1 and 2. The value 1 indicates all subfields, and the value 2 indicates any subfields.
logic	Integer	contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	Array of strings	Content of the match conditions

Table 4-570 action

Parameter	Type	Description
category	String	Action type. <ul style="list-style-type: none"> block: WAF blocks attacks. pass: WAF allows requests.

Status code: 400

Table 4-571 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-572 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-573 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "action": {
    "category": "block"
  },
  "action_mode": false,
  "aging_time": 0,
  "conditions": [ {
    "category": "header",
    "index": "sdfsafdsa",
    "logic_operation": "exist"
  } ],
  "description": "",
  "id": "2a3caa2bc9814c09ad73d02e3485b4a4",
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "priority": 50,
  "producer": 1,
```

```
"status" : 1,
"time" : false,
"timestamp" : 1656495488880
}
```

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](#).

4.2.7.4 Updating a Precise Protection Rule

Function

This API is used to update a precise protection rule.

URI

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

Table 4-574 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	customRuleId

Request Parameters

Table 4-575 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token

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

Table 4-576 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the custom rule
time	No	Boolean	Time the precise protection rule takes effect. <ul style="list-style-type: none"> • false: The rule takes effect immediately. • true: Time to take effect will be set.
start	No	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.
terminal	No	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.
conditions	No	Array of CustomConditions objects	Match condition List
action	No	CustomAction object	Protective action of the precise protection rule
priority	No	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 1000.

Table 4-577 CustomConditions

Parameter	Mandatory	Type	Description
category	No	String	The condition types can be path, user-agent, ip, params, cookie, referer, or header.
index	No	String	<ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.
check_all_indexes_logic	No	Integer	Available values are 1 and 2. The value 1 indicates all subfields, and the value 2 indicates any subfields.
logic	No	Integer	contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	No	Array of strings	Content of the match conditions
value_list_id	No	String	ID of the reference table

Table 4-578 CustomAction

Parameter	Mandatory	Type	Description
category	No	String	Action type. <ul style="list-style-type: none"> • block: WAF blocks attacks. • pass: WAF allows requests.

Response Parameters

Status code: 200

Table 4-579 Response body parameters

Parameter	Type	Description
id	String	ID of a precise protection rule.
policyid	String	ID of the policy to which the rule belongs.
conditions	Array of conditions objects	List of matching conditions. All conditions must be met.
action	action object	Protective action of the precise protection rule
priority	Integer	Priority of a rule. Smaller values correspond to higher priorities. If two rules are assigned with the same priority, the rule added earlier has higher priority. The value ranges from 0 to 1000.
timestamp	Long	Timestamp when the precise protection rule is created.
start	Long	Timestamp (ms) when the precise protection rule takes effect. This parameter is returned only when time is true.
terminal	Long	Timestamp (ms) when the precise protection rule expires. This parameter is returned only when time is true.

Table 4-580 conditions

Parameter	Type	Description
category	String	Condition type. Its option can be path, user-agent, ip, params, cookie, referer, or header.
index	String	<ul style="list-style-type: none"> • If category is set to cookie, index indicates cookie name. • If category is set to params, index indicates param name. • If category is set to header, index indicates an option in the header.
check_all_indexes_logic	Integer	Available values are 1 and 2. The value 1 indicates all subfields, and the value 2 indicates any subfields.

Parameter	Type	Description
logic	Integer	contain, not_contain, equal, not_equal, prefix, not_prefix, suffix, and not_suffix indicate Include, Exclude, Equal to, Not equal to, Prefix is, Prefix is not, Suffix is, and Suffix is not respectively. If category is set to ip, logic can only be equal or not_equal.
contents	Array of strings	Content of the match conditions

Table 4-581 action

Parameter	Type	Description
category	String	Action type. <ul style="list-style-type: none"> • block: WAF blocks attacks. • pass: WAF allows requests.

Status code: 400

Table 4-582 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-583 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-584 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
PUT https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/custom/{rule_id}?enterprise_project_id=0
{
  "description" : "",
  "action" : {
    "category" : "block"
  },
  "priority" : 50,
  "conditions" : [ {
    "category" : "header",
    "logic_operation" : "exist",
    "index" : "sdfsafsda1"
  } ],
  "time" : false
}
```

Example Responses

Status code: 200

ok

```
{
  "action" : {
    "category" : "block"
  },
  "action_mode" : false,
  "aging_time" : 0,
  "conditions" : [ {
    "category" : "header",
    "index" : "sdfsafsda1",
    "logic_operation" : "exist"
  } ],
  "description" : "",
  "id" : "2a3caa2bc9814c09ad73d02e3485b4a4",
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "priority" : 50,
  "producer" : 1,
  "status" : 1,
  "time" : false
}
```

Status Codes

Status Code	Description
200	ok
400	Request failed.

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

Error Codes

See [Error Codes](#).

4.2.7.5 Deleting a Precise Protection Rule

Function

This API is used to delete a precise protection rule.

URI

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

Table 4-585 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	customRuleId

Request Parameters

Table 4-586 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 400

Table 4-587 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-588 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-589 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "action": {
    "category": "block"
  },
  "action_mode": false,
  "aging_time": 0,
  "conditions": [ {
    "category": "header",
    "index": "sdfsafsa1",
    "logic_operation": "exist"
  } ],
  "description": "",
  "id": "2a3caa2bc9814c09ad73d02e3485b4a4",
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "priority": 50,
  "producer": 1,
```

```
"status" : 1,
"time" : false,
"timestamp" : 1656495488880
}
```

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](#).

4.2.8 Data Masking Rule Management

4.2.8.1 Querying Data Masking Rules

Function

This API is used to query data masking rules.

URI

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

Table 4-590 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-591 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned.
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results.

Request Parameters

Table 4-592 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 4-593 Response body parameters

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

Table 4-594 PrivacyResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Time a rule is created. The value must be a 13-digit timestamp in millisecond.
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
url	String	URL protected by the data masking rule
category	String	Masked field Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	String	Field name

Status code: 400

Table 4-595 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-596 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-597 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "items": [ {
    "category": "params",
    "description": "",
    "id": "41a5674e03a1470a90ac4761ec4657b4",
    "index": "password",
    "policyid": "1f016cde588646aca3fb19f277c44d03",
    "status": 1,
    "timestamp": 1656504425319,
    "url": "/login"
  } ]
}
```

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](#).

4.2.8.2 Adding a Data Masking Rule

Function

This API is used to add a data masking rule.

URI

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

Table 4-598 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Request Parameters

Table 4-599 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Table 4-600 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 <i>asterisk</i> (*) indicates the path prefix.
category	Yes	String	Masked field Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	Yes	String	Field name
description	No	String	Rule description

Response Parameters

Status code: 200

Table 4-601 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk (*) indicates the path prefix.</i>
category	String	Masked field Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	String	Field name

Status code: 400

Table 4-602 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-603 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-604 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

```
{
  "category" : "params",
  "description" : "",
  "id" : "41a5674e03a1470a90ac4761ec4657b4",
  "index" : "password",
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "status" : 1,
  "timestamp" : 1656504425319,
  "url" : "/login"
}
```

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](#).

4.2.8.3 Querying a Data Masking Rule List by ID

Function

This API is used to query a data masking rule by ID.

URI

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

Table 4-605 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	privacyRuleId

Request Parameters

Table 4-606 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-607 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL protected by the data masking rule. The value must be in the standard URL format, for example, /admin/xxx or /admin/. <i>The asterisk () indicates the path prefix.</i>

Parameter	Type	Description
category	String	Masked field Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	String	Field name

Status code: 400

Table 4-608 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-609 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-610 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "category": "params",
  "description": "",
  "id": "41a5674e03a1470a90ac4761ec4657b4",
  "index": "password",
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "status": 1,
  "timestamp": 1656504425319,
  "url": "/login"
}
```

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](#).

4.2.8.4 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 4-611 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	privacyRuleId

Request Parameters

Table 4-612 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/ json; charset=utf8

Table 4-613 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 <i>asterisk (*)</i> indicates the path prefix.
category	Yes	String	Masked field Enumeration values: <ul style="list-style-type: none">• params• cookie• header• form
index	Yes	String	Field name
description	No	String	Rule description

Response Parameters

Status code: 200

Table 4-614 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID

Parameter	Type	Description
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 Enumeration values: <ul style="list-style-type: none"> • params • cookie • header • form
index	String	Field name

Status code: 400

Table 4-615 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-616 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-617 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "category" : "header",
  "description" : "",
  "id" : "41a5674e03a1470a90ac4761ec4657b4",
  "index" : "token",
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "status" : 1,
  "timestamp" : 1656504425319,
  "url" : "/login"
}
```

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](#).

4.2.8.5 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 4-618 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	privacyRuleId

Request Parameters

Table 4-619 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 400

Table 4-620 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-621 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-622 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "category": "header",
  "description": "",
  "id": "41a5674e03a1470a90ac4761ec4657b4",
  "index": "token",
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "status": 1,
  "timestamp": 1656504425319,
  "url": "/login"
}
```

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](#).

4.2.9 Web Tamper Protection Rule Management

4.2.9.1 Querying the List of Web Tamper Protection Rules

Function

This API is used for querying the list of web tamper protection rules.

URI

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

Table 4-623 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-624 Query Parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10

Request Parameters

Table 4-625 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-626 Response body parameters

Parameter	Type	Description
total	Integer	Total
items	Array of AntiTamperRuleResponse objects	Rules

Table 4-627 AntiTamperRuleResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp (ms)
description	String	Description of the rule
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
hostname	String	URL protected by the web tamper protection rule, excluding a domain name
url	String	URL protected by the web tamper protection rule

Status code: 400

Table 4-628 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-629 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-630 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

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": [ {
    "description": "",
    "hostname": "www.domain.com",
    "id": "Of59185b76c143f884d21cd0d88e6fa8",
    "policyid": "1f016cde588646aca3fb19f277c44d03",
    "status": 1,
    "timestamp": 1656506256928,
    "url": "/login"
  } ]
}
```

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](#).

4.2.9.2 Creating a Web Tamper Protection Rule

Function

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

URI

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

Table 4-631 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Request Parameters

Table 4-632 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Table 4-633 Request body parameters

Parameter	Mandatory	Type	Description
hostname	Yes	String	Protected website. It can be obtained by calling the ListHost API in cloud mode (the value of the hostname field in the response body).

Parameter	Mandatory	Type	Description
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 4-634 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp (ms)
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule
description	String	Description of the rule
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).

Status code: 400

Table 4-635 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-636 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-637 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "description" : "",
  "hostname" : "www.domain.com",
  "id" : "0f59185b76c143f884d21cd0d88e6fa8",
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "status" : 1,
  "timestamp" : 1656506256928,
  "url" : "/login"
}
```

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](#).

4.2.9.3 Querying a Web Tamper Protection Rule by ID

Function

This API is used to query a web tamper protection rule by ID.

URI

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

Table 4-638 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	antitamperRuleId

Request Parameters

Table 4-639 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json; charset=utf8

Response Parameters

Status code: 200

Table 4-640 Response body parameters

Parameter	Type	Description
id	String	Rule ID

Parameter	Type	Description
policyid	String	Policy ID
timestamp	Long	Timestamp (ms)
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule
description	String	Description of the rule
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).

Status code: 400

Table 4-641 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-642 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-643 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "description": "",
  "hostname": "www.domain.com",
  "id": "0f59185b76c143f884d21cd0d88e6fa8",
  "policyid": "1f016cde588646aca3fb19f277c44d03",
  "status": 1,
  "timestamp": 1656506256928,
  "url": "/login"
}
```

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](#).

4.2.9.4 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 4-644 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	antitamperRuleId

Request Parameters

Table 4-645 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-646 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp (ms)
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule
description	String	Description of the rule
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).

Status code: 400

Table 4-647 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-648 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-649 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{  
  "description" : "",  
  "hostname" : "www.domain.com",  
  "id" : "0f59185b76c143f884d21cd0d88e6fa8",  
  "policyid" : "1f016cde588646aca3fb19f277c44d03",  
  "status" : 1,  
  "timestamp" : 1656506256928,  
  "url" : "/login"  
}
```

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](#).

4.2.9.5 Updating the Cache of a Web Tamper Protection Rule

Function

This API is used to refresh cache in a web tamper protection rule in the event of changes on the protected webpage.

URI

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

Table 4-650 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
antitamperid	Yes	String	Web tamper protection rule ID

Request Parameters

Table 4-651 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Tenant token

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

Response Parameters

Status code: 200

Table 4-652 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp (ms)
hostname	String	Domain name protected by the web tamper protection rule
url	String	URL protected by the web tamper protection rule
description	String	Description of the rule
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).

Status code: 400

Table 4-653 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-654 Response body parameters

Parameter	Type	Description
error_code	String	Error Code

Parameter	Type	Description
error_msg	String	Error Messages

Status code: 500

Table 4-655 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "description" : "",
  "hostname" : "www.domain.com",
  "id" : "0f59185b76c143f884d21cd0d88e6fa8",
  "policyid" : "1f016cde588646aca3fb19f277c44d03",
  "status" : 0,
  "timestamp" : 1656506256928,
  "url" : "/login"
}
```

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](#).

4.2.10 False Alarm Masking Rule Management

4.2.10.1 Querying False Alarm Masking Rules

Function

This API is used to query false alarm masking rules.

URI

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

Table 4-656 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-657 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 of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned. Default: 1
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results. Default: 10

Request Parameters

Table 4-658 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-659 Response body parameters

Parameter	Type	Description
total	Integer	Number of false alarm masking rules in the policy
items	Array of IgnoreRuleBody objects	False alarm masking rule objects

Table 4-660 IgnoreRuleBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp (ms) when the rule is created
description	String	Rule description
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
url	String	Path of the false alarm masking rule. This parameter is available only when mode is set to 0.
rule	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.

Parameter	Type	Description
mode	Integer	Version number. The value 0 indicates the old version V1, and the value 1 indicates the new version V2. If the value of mode is 0, the conditions field does not exist, and the url and url_logic fields exist. When the value of mode is 1, the url and url_logic fields do not exist, and the conditions field exists.
url_logic	String	Logic options in a condition are: <ul style="list-style-type: none"> • equal: The condition is met when the specified field in a request equals to the content you provide. • not_equal: The condition is met when the specified field in a request does not equal to the content you provide. • contain: The condition is met when the specified field in a request contains the content you provide. • not_contain: The condition is met when the specified field in a request does not contain the content you provide. • prefix: The condition is met when the prefix in the specified field in a request is the content you provide. • not_prefix: The condition is met when the prefix in the specified field in a request is not the content you provide. • suffix: The condition is met when the suffix in the specified field in a request matches the content you provide. • not_suffix: The condition is met when the suffix in the specified field in a request does not match the content you provide. • regular_match: The condition is met when the regular expression is matched. • regular_not_match: The condition is met when the regular expression is not matched.
conditions	Array of Condition objects	Condition list
domains	Array of strings	Protected domain name or website

Table 4-661 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip, url, params, cookie, or header.
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip, the value must be an IP address or IP address segment. If the field type is url, the value must be in standard URL format. If the field type is params, cookie, or header, the content format is not limited.
logic_operation	String	Matching logics. The matching logic varies depending on field types. If the field type is ip, equal and not_equal are supported. If the field type is url, header, params, or cookie, equal, not_equal, contain, not_contain, prefix, not_prefix, suffix, not_suffix, regular_match, and regular_not_match are supported.
check_all_indexes_logic	Integer	If the field type is url or ip, the check_all_indexes_logic field does not exist. In other cases, the value 1 indicates that all subfields will be checked, the value 2 indicates that any subfield will be checked, and the value null indicates that custom subfields will be used.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Status code: 400

Table 4-662 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-663 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-664 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "total" : 1,
  "items" : [ {
    "id" : "c20f67b3e1c040c0b0d8866e568ee8bf",
    "policyid" : "a75e96d8284c4c4f98ada7d391e8342c",
    "timestamp" : 1656507126528,
    "description" : "",
    "status" : 1,
    "rule" : "webshell",
    "mode" : 1,
    "conditions" : [ {
      "category" : "url",
      "contents" : [ "attack" ],
      "logic_operation" : "contain"
    } ],
    "domain" : [ "test3.th.com" ]
  } ]
}
```

Status Codes

Status Code	Description
200	ok
400	Request failed.

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

Error Codes

See [Error Codes](#).

4.2.10.2 Adding a False Alarm Masking Rule

Function

This API is used to add a false alarm masking rule.

URI

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

Table 4-665 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.

Table 4-666 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 4-667 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token

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

Table 4-668 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	Array of strings	Domain name or website to e protect. If the array length is 0, the rule takes effect for all domain names or websites.
conditions	Yes	Array of CreateCondition objects	Condition list
mode	Yes	Integer	Version of the false alarm masking rule. The value must be 1 (v2). v1 is only compatible with earlier versions where a rule cannot be created.
rule	Yes	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.
description	No	String	Description of a masking rule

Table 4-669 CreateCondition

Parameter	Mandatory	Type	Description
category	Yes	String	Field type. The value can be ip, url, params, cookie, or header.

Parameter	Mandatory	Type	Description
contents	Yes	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip, the value must be an IP address or IP address segment. If the field type is url, the value must be in standard URL format. If the field type is params, cookie, or header, the content format is not limited.
logic_operation	Yes	String	Matching logics. The matching logic varies depending on field types. If the field type is ip, equal and not_equal are supported. If the field type is url, header, params, or cookie, equal, not_equal, contain, not_contain, prefix, not_prefix, suffix, not_suffix, regular_match, and regular_not_match are supported.
check_all_indexes_logic	No	Integer	This parameter is not required if a custom subfield is used and the field type is url or ip. In other cases, the value 1 indicates that all subfields will be checked, and the value 2 indicates that any subfield will be checked.
index	No	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Response Parameters

Status code: 200

Table 4-670 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp when the rule is created
description	String	Rule description
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
rule	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.
mode	Integer	Version of the false alarm masking rule. The value must be 1 (v2). v1 is compatible with earlier versions only where a rule cannot be created.
conditions	Array of Condition objects	Condition list
domain	Array of strings	Protected domain name or website

Table 4-671 Condition

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

Parameter	Type	Description
check_all_indexes_logic	Integer	If the field type is url or ip, the check_all_indexes_logic field does not exist. In other cases, the value 1 indicates that all subfields will be checked, the value 2 indicates that any subfield will be checked, and the value null indicates that custom subfields will be used.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Status code: 400

Table 4-672 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-673 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-674 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?enterprise_project_id=0
{
  "domain" : [ "test3.th.com" ],
  "conditions" : [ {
    "category" : "url",
    "logic_operation" : "contain",
    "contents" : [ "attack" ],
    "index" : null
  } ],
  "mode" : 1,
  "description" : "",
  "rule" : "webshell"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "c20f67b3e1c040c0b0d8866e568ee8bf",
  "policyid" : "a75e96d8284c4c4f98ada7d391e8342c",
  "timestamp" : 1656507126528,
  "description" : "",
  "status" : 1,
  "rule" : "webshell",
  "mode" : 1,
  "conditions" : [ {
    "category" : "url",
    "contents" : [ "attack" ],
    "logic_operation" : "contain"
  } ],
  "domain" : [ "test3.th.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](#).

4.2.10.3 Querying a False Alarm Masking Rule

Function

This API is used to query a false alarm masking rule.

URI

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

Table 4-675 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ignoreRuleId

Table 4-676 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 4-677 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-678 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp when the rule is created
description	String	Rule description
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
rule	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.
mode	Integer	Version of the false alarm masking rule. The value must be 1 (v2). v1 is compatible with earlier versions only where a rule cannot be created.
conditions	Array of Condition objects	Condition list
domain	Array of strings	Protected domain name or website

Table 4-679 Condition

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

Parameter	Type	Description
check_all_indexes_logic	Integer	If the field type is url or ip, the check_all_indexes_logic field does not exist. In other cases, the value 1 indicates that all subfields will be checked, the value 2 indicates that any subfield will be checked, and the value null indicates that custom subfields will be used.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Status code: 400

Table 4-680 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-681 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-682 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "c20f67b3e1c040c0b0d8866e568ee8bf",
  "policyid": "a75e96d8284c4c4f98ada7d391e8342c",
  "timestamp": 1656507126528,
  "description": "",
  "status": 1,
  "rule": "webshell",
  "mode": 1,
  "conditions": [ {
    "category": "url",
    "contents": [ "attack" ],
    "logic_operation": "contain"
  } ],
  "domain": [ "test3.th.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](#).

4.2.10.4 Updating a False Alarm Masking Rule

Function

This API is used to update a false alarm masking rule.

URI

```
PUT /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}
```

Table 4-683 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ignoreRuleId

Table 4-684 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 4-685 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Table 4-686 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	Array of strings	Domain name or website to e protect. If the array length is 0, the rule takes effect for all domain names or websites.
conditions	Yes	Array of CreateCondition objects	Condition list

Parameter	Mandatory	Type	Description
mode	Yes	Integer	Version of the false alarm masking rule. The value must be 1(v2). v1 is only compatible with earlier versions where a rule cannot be created.
rule	Yes	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.
description	No	String	Description of a masking rule

Table 4-687 CreateCondition

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

Parameter	Mandatory	Type	Description
check_all_indexes_logic	No	Integer	This parameter is not required if a custom subfield is used and the field type is url or ip. In other cases, the value 1 indicates that all subfields will be checked, and the value 2 indicates that any subfield will be checked.
index	No	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Response Parameters

Status code: 200

Table 4-688 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Timestamp when the rule is created
description	String	Rule description
status	Integer	Rule status. The value can be 0 (disabled) or 1 (enabled).
rule	String	ID of the built-in rule. You can query the rule ID by choosing Policy > Policy Name > Basic Web Protection > Protection Rules on the WAF console or in the event details.
mode	Integer	Version of the false alarm masking rule. The value must be 1 (v2). v1 is compatible with earlier versions only where a rule cannot be created.

Parameter	Type	Description
conditions	Array of Condition objects	Condition list
domain	Array of strings	Protected domain name or website

Table 4-689 Condition

Parameter	Type	Description
category	String	Field type. The value can be ip, url, params, cookie, or header.
contents	Array of strings	Content. The array length must be 1. The content format varies depending on field types. For example, if the field type is ip, the value must be an IP address or IP address segment. If the field type is url, the value must be in standard URL format. If the field type is params, cookie, or header, the content format is not limited.
logic_operation	String	Matching logics. The matching logic varies depending on field types. If the field type is ip, equal and not_equal are supported. If the field type is url, header, params, or cookie, equal, not_equal, contain, not_contain, prefix, not_prefix, suffix, not_suffix, regular_match, and regular_not_match are supported.
check_all_indexes_logic	Integer	If the field type is url or ip, the check_all_indexes_logic field does not exist. In other cases, the value 1 indicates that all subfields will be checked, the value 2 indicates that any subfield will be checked, and the value null indicates that custom subfields will be used.
index	String	If the field type is ip and the subfield is the client IP address, the index parameter does not exist. If the subfield type is X-Forwarded-For, set the value to x-forwarded-for. If the field type is params, header, or cookie and the subfield is of a customized type, the value of index is the custom subfield.

Status code: 400

Table 4-690 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-691 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-692 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/policy/{policy_id}/ignore?enterprise_project_id=0
{
  "domain" : [ "test3.th.com" ],
  "conditions" : [ {
    "category" : "url",
    "logic_operation" : "contain",
    "contents" : [ "attack" ],
    "index" : null
  } ],
  "mode" : 1,
  "description" : "",
  "rule" : "vuln"
}
```

Example Responses

Status code: 200

ok

```
{
  "id" : "c20f67b3e1c040c0b0d8866e568ee8bf",
  "policyid" : "a75e96d8284c4c4f98ada7d391e8342c",
}
```

```

"timestamp" : 1656507126528,
"description" : "",
"status" : 1,
"rule" : "vuln",
"mode" : 1,
"conditions" : [ {
  "category" : "url",
  "contents" : [ "attack" ],
  "logic_operation" : "contain"
} ],
"domain" : [ "test3.th.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](#).

4.2.10.5 Deleting a False Alarm Masking Rule

Function

This API is used to delete a false alarm masking rule.

URI

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

Table 4-693 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Protection policy ID. You can call the ListPolicy API to obtain the policy ID.
rule_id	Yes	String	ignoreRuleId

Table 4-694 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 4-695 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	auth token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 400

Table 4-696 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-697 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-698 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "id": "c20f67b3e1c040c0b0d8866e568ee8bf",
  "policyid": "a75e96d8284c4c4f98ada7d391e8342c",
  "timestamp": 1656507126528,
  "description": "",
  "status": 1,
  "rule": "vuln",
  "mode": 1,
  "conditions": [ {
    "category": "url",
    "contents": [ "attack" ],
    "logic_operation": "contain"
  } ],
  "domain": [ "test3.th.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](#).

4.2.11 Dashboard

4.2.11.1 Querying the Number of Requests and Attacks on Dashboard

Function

This API is used to query the number of requests and attacks on the dashboard. This API and other APIs related to Dashboard cannot be used to query the number of requests or attacks for a custom time range. You can use them to query statistics for yesterday, today, past 3 days, past 7 days, and past 30 days only.

URI

GET /v1/{project_id}/waf/overviews/statistics

Table 4-699 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-700 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). 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 ID array. 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. By default, it is left empty, and statistics on abnormal requests for all domain names is returned. To query abnormal requests for one or more domain names, configure this parameter.
instances	No	String	List of instances to be queried

Request Parameters

Table 4-701 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 4-702 Response body parameters

Parameter	Type	Description
[items]	Array of CountItem objects	Security statistics

Table 4-703 CountItem

Parameter	Type	Description
key	String	Type
num	Integer	Quantity

Status code: 400

Table 4-704 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-705 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 403

Table 4-706 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-707 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/statistics?
enterprise_project_id=0&from=1650470400196&to=1650522936196&hosts=1bac09440a814aa98ed08302c58
0a48b&hosts=5a532f83a2fb476ba51ca1de7b1ebc43
```

Example Responses

Status code: 200

ok

```
[ {
  "key": "ACCESS",
  "num": 1190
}, {
  "key": "PRECISE",
  "num": 0
}, {
  "key": "CRAWLER",
  "num": 10
}, {
  "key": "WEB_ATTACK",
  "num": 22
}, {
  "key": "CC",
```

```
"num" : 0
}, {
  "key" : "ATTACK",
  "num" : 32
}]
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.11.2 Querying Top N Statistics on Dashboard

Function

This API is used to query top N statistics on the dashboard, including the attacked domain names, attack source IP addresses, attacked URLs, attack source regions, and event distribution. This API and other APIs related to Dashboard cannot be used to query the number of requests or attacks for a custom time range. You can use them to query statistics for yesterday, today, past 3 days, past 7 days, and past 30 days only.

URI

GET /v1/{project_id}/waf/overviews/classification

Table 4-708 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. To query the project ID, go to the management console, choose My Credentials > Projects, and query the value in the Project ID column.

Table 4-709 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID. 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.
top	No	Integer	The number of top results to be returned. Maximum: 10 Minimum: 5
hosts	No	String	List of the domain names to be queried. It is obtained by calling the ListHost API or the ListPremiumHost API. By default, it is left empty, and statistics on abnormal requests for all domain names is returned. To query abnormal requests for one or more domain names, configure this parameter.
instances	No	String	List of instances to be queried. This parameter is required only for dedicated or load-balancing WAF instances.

Request Parameters

Table 4-710 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Tenant token
Content-Type	Yes	String	Content type Default: application/json;charset=utf8

Response Parameters

Status code: 200

Table 4-711 Response body parameters

Parameter	Type	Description
domain	DomainClassificationItem object	Attacked domain name
attack_type	AttackTypeClassificationItem object	Attack event distribution
ip	IpClassificationItem object	Attacking source IP address
url	UrlClassificationItem object	Attacked URL
geo	GeoClassificationItem object	Source region

Table 4-712 DomainClassificationItem

Parameter	Type	Description
total	Integer	Total number of DomainItem
items	Array of DomainItem objects	DomainItem details

Table 4-713 DomainItem

Parameter	Type	Description
key	String	Domain name
num	Integer	Quantity
web_tag	String	Website

Table 4-714 AttackTypeClassificationItem

Parameter	Type	Description
total	Integer	Total number of AttackTypeItem
items	Array of AttackTypeItem objects	AttackTypeItem details

Table 4-715 AttackTypeItem

Parameter	Type	Description
key	String	Attack type
num	Integer	Quantity

Table 4-716 IpClassificationItem

Parameter	Type	Description
total	Integer	Total number of IpItem
items	Array of IpItem objects	IpItem Details

Table 4-717 IpItem

Parameter	Type	Description
key	String	IP address
num	Integer	Quantity

Table 4-718 UrlClassificationItem

Parameter	Type	Description
total	Integer	Total number of UrlItem
items	Array of UrlItem objects	UrlItem Details

Table 4-719 UrlItem

Parameter	Type	Description
key	String	Path
num	Integer	Quantity
host	String	Domain name

Table 4-720 GeoClassificationItem

Parameter	Type	Description
total	Integer	Total number of GeoItem
items	Array of GeoItem objects	GeoItem details

Table 4-721 GeoItem

Parameter	Type	Description
key	String	Source region
num	Integer	Quantity

Status code: 400

Table 4-722 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-723 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-724 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/overviews/classification?
enterprise_project_id=0&from=1652889600354&to=1655435681354&top=10&hosts=1bac09440a814aa98ed0
8302c580a48b&hosts=5a532f83a2fb476ba51ca1de7b1ebc43
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "attack_type": {
    "total": 1,
    "items": [ {
      "key": "custom_custom",
      "num": 2
    } ]
  },
  "domain": {
    "total": 2,
    "items": [ {
      "key": "www.whitelist.com",
      "num": 2,
      "web_tag": "www.whitelist.com"
    }, {
      "key": "zbx002.apayaduo.cn",
      "num": 2,
      "web_tag": ""
    } ]
  },
  "geo": {
    "total": 1,
    "items": [ {
      "key": "10.142.4.15",
      "num": 2
    } ]
  },
  "ip": {
    "total": 1,
    "items": [ {
      "key": "10.142.4.15",
      "num": 2
    } ]
  },
  "url": {
    "total": 1,
    "items": [ {
      "key": "/attack",
      "num": 2,
      "host": "www.whitelist.com"
    } ]
  }
}
```



```
}  
}
```

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](#).

4.2.12 Protection Event Management

4.2.12.1 Querying the List of Attack Events

Function

This API is used to query the attack event list. Currently, this API cannot be used to query all the events. The pagesize parameter cannot be set to -1. A large query data volume will result in large memory consumption. To avoid affecting performance, a maximum of 10,000 data records can be returned. For example, if the number of data records in the specified time period exceeds 10,000, the data records on page 101 and later cannot be returned. In this case, you need to modify the time period and query again.

URI

GET /v1/{project_id}/waf/event

Table 4-725 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-726 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.
recent	No	String	Time range for querying logs. This parameter cannot be used together with from and to. Enumeration values: <ul style="list-style-type: none"> • yesterday • today • 3days • 1week • 1month

Parameter	Mandatory	Type	Description
attacks	No	Array	<p>Attack type.</p> <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injections • lfi: local file inclusion attacks • cmdi: command injections • xss: XSS attacks • robot: malicious crawlers • rfi: remote file inclusion attacks • custom_custom: precise protection • cc: CC attacks • webshell: website Trojans • custom_whiteblackip: attacks blocked based on blacklist and whitelist settings • custom_geoiip: attacks blocked based on geolocations • antitamper: anti-tamper events • anticrawler: anti-crawler events • leakage: website data leakage prevention • illegal: unauthorized requests
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.
hosts	No	Array	Domain name ID. It can be obtained by calling the ListHost API.

Parameter	Mandatory	Type	Description
page	No	Integer	Page number of the data to be returned in a query. The value range is 0 to 100000. The default value is 1, indicating that data on the first page is returned.
pagesize	No	Integer	Number of results on each page in query pagination. The value range is 1 to 100. The default value is 10, indicating that each page contains 10 results.

Request Parameters

Table 4-727 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 4-728 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ListEventItems objects	Attack event details

Table 4-729 ListEventItems

Parameter	Type	Description
id	String	Event ID
time	Long	Count
policyid	String	Policy ID
sip	String	Source IP address
host	String	Domain name
url	String	Attacked URL
attack	String	Attack type: <ul style="list-style-type: none"> • vuln: other attack types • sqli: SQL injections • lfi: local file inclusion attacks • cmdi: command injections • xss: XSS attacks • robot: malicious crawlers • rfi: remote file inclusion attacks • custom_custom: precise protection • webshell: website Trojans • custom_whiteblackip: attacks blocked based on blacklist and whitelist settings • custom_geoip: attacks blocked based on geolocations • antitamper: anti-tamper events • anticrawler: anti-crawler events • leakage: website data leakage prevention • illegal: unauthorized requests
rule	String	ID of the matched rule
payload	String	Hit payload
action	String	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

Parameter	Type	Description
host_id	String	Domain name ID
response_time	Long	Time to response
response_size	Integer	Response body size
response_body	String	Response body
request_body	String	Request body

Status code: 400

Table 4-730 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-731 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-732 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

```
{
  "total": 1,
  "items": [ {
    "id": "04-0000-0000-0000-21120220421152601-2f7a5ceb",
    "time": 1650525961000,
    "policyid": "25f1d179896e4e3d87ceac0598f48d00",
    "host": "x.x.x.x:xxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "url": "/osclass/oc-admin/index.php",
    "attack": "lfi",
    "rule": "040002",
    "payload": " file=../../../../../../../../etc/passwd",
    "payload_location": "params",
    "sip": "x.x.x.x",
    "action": "block",
    "request_line": "GET /osclass/oc-admin/index.php?page=appearance&action=render&file=../../../../../../../../etc/passwd",
    "headers": {
      "accept-language": "en",
      "ls-id": "xxxx-xxxx-xxxx-xxxx-9c302cb7c54a",
      "host": "x.x.x.x",
      "lb-id": "2f5f15ce-08f4-4df0-9899-ec0cc1fcdc52",
      "accept-encoding": "gzip",
      "accept": "*/*",
      "user-agent": "Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/35.0.2309.372 Safari/537.36"
    },
    "cookie": "HWWAFSESID=2a1d773f9199d40a53; HWWAFSESTIME=1650525961805",
    "status": "418",
    "host_id": "6fbe595e7b874dbbb1505da3e8579b54",
    "response_time": 0,
    "response_size": 3318,
    "response_body": "",
    "process_time": 2,
    "request_body": "{}"
  } ]
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.2.12.2 Querying Attack Event Details

Function

This API is used to query the details about an attack event.

URI

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

Table 4-733 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
eventid	Yes	String	Event ID. You can call the ListEvent API to obtain the event ID.

Table 4-734 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 4-735 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 4-736 Response body parameters

Parameter	Type	Description
total	Integer	Number of attack events
items	Array of ShowEventItems objects	Attack event details

Table 4-737 ShowEventItems

Parameter	Type	Description
time	Long	Timestamp when the attack occurs, in milliseconds.
policyid	String	Policy ID
sip	String	Source IP address
host	String	Domain name
url	String	Attacked URL
attack	String	Attack type
rule	String	ID of the matched rule
action	String	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	Status code
request_body	String	Request body

Status code: 400

Table 4-738 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-739 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-740 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

ok

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

```

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

4.2.13 Certificate Management

4.2.13.1 Querying the Certificate List

Function

This API is used to query the list of certificates.

URI

GET /v1/{project_id}/waf/certificate

Table 4-741 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-742 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.
page	No	Integer	Page number of the data to be returned during pagination query. The value ranges from 0 to 100000 . 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 value ranges from 1 to 100 . 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 are not used for any domain name. Default: false
exp_status	No	Integer	Certificate status. The options are 0 , 1 , and 2 . 0 : The certificate is valid. 1 : The certificate has expired; 2 : The certificate will expire within one month.

Request Parameters

Table 4-743 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 4-744 Response body parameters

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

Table 4-745 CertificateBody

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate Name
content	String	Certificate file, which is in PEM format.
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Timestamp when the certificate expires
exp_status	Integer	Certificate status. The options are 0 , 1 , and 2 . 0 : The certificate is valid. 1 : The certificate has expired; 2 : The certificate will expire within one month.
timestamp	Long	Certificate upload timestamp.

Parameter	Type	Description
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 4-746 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-747 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-748 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-749 Response body parameters

Parameter	Type	Description
error_code	String	Error Code

Parameter	Type	Description
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	Insufficient token permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.13.2 Creating a Certificate

Function

This API is used to create a certificate.

URI

POST /v1/{project_id}/waf/certificate

Table 4-750 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-751 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.

Request Parameters

Table 4-752 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 4-753 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.

Parameter	Mandatory	Type	Description
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 4-754 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate Name
content	String	Certificate file, which is in PEM format.
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 are 0 , 1 , and 2 . 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 4-755 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-756 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-757 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-758 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
POST https://{Endpoint}/v1/{project_id}/waf/certificate?enterprise_project_id=0
{
  "name" : "demo",
  "content" : "-----BEGIN CERTIFICATE-----
MIIDyzCCArOgAwIBAgIJAN5U0Z4Bh5ccMA0GCSqGSIb3DQEBCwUAMHwxZzAJBgNV
BAYTA1pIMRlWzEAYDVQQIDAlHVUFOR0RPTkcxETAPBgNVBACMCERPTkdHVUFOR0Q0w
CwYDVQQKDARERUUtFMQswCQYDVQQLEAJESzELMAkGA1UEAwwCT0QxHTAbBgkqhkiG
9w0BCQEWDk8lZC5odWF3ZzZwkuY29tMB4XDTEwMTE4MTk0MVoXDTEwMTE4MTk0MVo
MTk0MVoVowfDELMkGA1UEBHMCMWkgxEjAQBgNVBAgMCUdVQU5HRE9ORzERMA8GA1UE
BwwiRE9OR0dVQU4xDTALBgNVBAoMBERFS0UxZzAJBgNVBAsMAkRMLMQswCQYDVQQD
DAJPRDEdMBsGCSqGSIb3DQEJARYOTwhkLmh1YXdlas5jb20wggEiMA0GCSqGSIb3
DQEBAQUAA4IBDwAwggEKAoIBAQDcoLfk62//r0RHFyweYBj97S4Nsj8Qj0RG+Y02
OgwhQmRiNNjubJwP8Nqqy86zr+fsSQxKBaBCosn1PcN2Pj2vPJD6NEk4I6VdOWr /
kFYMIocimhSfW4wt6VakniOKIYGrCxxvQe1X2OyBxT+ocTLRgEIB8ZbvJyPNseg
feLEUuPYRpQ5kXLgJH2/3NwZFOgBHVv/b07l4fR+sWJMniA2yljSBQ0DEAOSusXo FQ/
WRbBRH7DrQmxGiXsq4VELEr9Nnc/Kywq+9pYi8L+mKeRL+lcMMbXC/3k6OfMB
tVTiwmS1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJZTPH6lYtAgMBAAGjUDBOMB0G
A1UdDgQWBQprUUFxw+glkpxXdrYlsWjfsahWjAfbgNVHSMEGDAWgBQprUUFxw+g
lkpxXdrYlsWjfsahWjAMBgNVHRMEBTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQA2
603KozsQolKeLvqDJlcAXwWRFNW8SvlaSJAulhHgneMt9bQgIL+3PJWA/iMniOhU o/
kVwkiUlcxw4t7RwP0hVms0OZw59MuqKd3oCSWkYO4vEHs3t40JDWnGDnmQ4sol
RkOWJwL4w8tnPe3qY9JSupjlsu6Y1hlvKtEfn2vEKFnsuMhidkUpUAJWodHhWBQH
```

```
wglDo4/6yTnWZNGK8JDal86Dm5lchXea1EoYBjsHxiJb7HeWQlkre+MCYi1RHOin 4mlXTr0oT4/jWlglkSz6/
ZhGRq+7W7tIl7cvzCe+4XsVZlenAcYoNd/WLfo91PD4 yAsRxoJw1so1Bj0BkDz -----END CERTIFICATE-----",
"key" : "-----BEGIN PRIVATE KEY-----
MIIEVwIBADANBgkqhkiG9w0BAQEFAASCBBKwggSIAGAAoIBAQCdcoLFK62//r0RH FyweYBj97S4NsJ8Qj0RG
+Y02OgwhQmRiNNjubJwP8Nqqyd86zr+fsSxkBaBCosn 1PcN2Pj2vPJd6NEK4I6VdOWR/
kFYMIocimhSfW4wt6VakniOKIYGrCxxvQe1X2Oy BxT
+ocTLRgEIB8ZbvJyPNsegfeLEUuPYRpQ5kXLgJH2/3NwZFOgBHVv/b07l4fR+ sWJMniA2yljSBQ0DEAOSusXoFQ/
WRbBRH7DrQmxGiXsq4VELEr9Nnc/Kywwq+9pYi 8L+mKeRL+lcMMbXC/
3k6OfMBtVTiwcmS1Mkr3iG03i8u6H7RSvRwyBz9G9sE+tmJ ZTPH6lYtAgMBAECCggEBAL+xZxm/QooXT
+2stoqV2GEyAMFASpRqxlocjZMmEE/9 jZa+cBWlJHhVPsjRqYFBDcHEebu0JwlrjclAvgnlVnO5XgXm1A9Q
+WbscokmcX1 xCvpHgc+MDVn+uWdCd4KW5kEk4EnSsFN5iNSf+1VxNURN+gwSSp/OE+muwA5IISO G6HQ
+p6qs52JAitX5t/7RuKoHYXjXbnf7TUs7768qrh++KPKpPlq044qoYlcGO1n 4urPBHuNly04GgGw
+vkaqjQvZrNLVOMMaFWBxsDWBehgSSBQTj+f3NCxneGYtt8 3SCTZQI5nlkb+r/
M455EwKTSXuEsNHolwx7L6GEPbQECgYEA8lxgK2fykloCoh
TFJaRAvvyjKa2+Aza4qT9SGY9Y30VPClPjBB1vUu5M9KrFufzlv06nGEcHmpEwOe
8vbRu7nLAQTGYFi8VK63q8w6FlFdAyCG6Sx+BWCfWxJzXSLAJTfklwi8HsOSlqh
6QNv0xbE2fljXKf8MHvtrufip40CgYEA6sy87eDrkVgtq4ythAik3i1C5Z3v0fvx mTbLg5Z21OyocNq3Tf/
b1Zwolc1ik6cyBzY6z1blrbSzArCqm0sb2iD+kjL81O0 /qqdXjBxZuKkiVAMNnp7xjGZHHFKWUxT2+UX/
tlyx4t4dzrFlkdDXkcMmqfsRxd 1NEVaAaT8SECgYAOu7BPTplun43YTpUfr3pSIN6oZeKoxSbw9i4MNC
+4fSDRPC+ 80lmcmZRL7taF+Y7p0jxAOtulkJC8NbAiv5J9WzrwQ+5MF2BPB/2bYnRa6tNofH kZDy/
9bXySl6qw2p5Ety8wVcgZTMvFMGiG/32lpZ65FYWEU8L5qSRwffhQKbGQC9 ihjZTj/bTHtRiHZppzCvyYm/lgd
+Uwtsy0uXR1n0G1SQENgrTBD/J6AzdfJae6tE P0U8YIM5Oqx2i/as9ay+IPRecMl4eSxz7jWAGx6Yx/3AZ
+hAB1ZbNbnqniCLYNk d0MvjwmA25ATO+ro4OZ7AdEpQbk3l9aG/WFyYBz9AQKbGQCucFPA115esL8196V
WMr2Qo0tqz17CGSoWQk2Sa2HZtZdfofXAaaqo+zvJ6RPHUj0jgJtx536DvV3egl
37YrdQyJbCPZXQ3SPgqWCORunXBwq/nxS06uwwu6JBxUfC57ijmMU4fWYNrvkkmWb 7keAg/
r5Uy1joMAvBN1I6lB8pg== -----END PRIVATE KEY-----"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "6e2be127b79f4a418414952ad5d8c59f",
  "name" : "certificatename94319",
  "content" : "-----BEGIN CERTIFICATE-----\nMIIB
+TCCAAoGAWIBAgIUJP9I8OupQ77w0bGL2yWOQXreM4kwDQYJKoZIhvcNAQELBQAwUTELMAkGA1UEBhMC
QVUxExARBgNVBAGMCIHvWUtU3RhdGUxZDANBgNVBAoMBAk1YXdlTEcMBoGA1UEAwwTd2FmLmh1YXdl
aWNsb3VklmNvbTAeFw0yMDA3MDkwNTQ2MDRlZDk0MDA3MDgwNTQ2MDRlZDk0MDRlZDk0MDRlZDk0MDRlZDk0
MRMwEQYDVQQLIDApTb21lLVN0YXRIMQ8wDQYDVQQKDAZidWF3Z3ZlZDk0MDRlZDk0MDRlZDk0MDRlZDk0
WljbG91ZC5jb2wXDANBgkqhkiG9w0BAQEFAANLADBIAEAOUEBmZbvgOJTKrKcDUw9xjFqXm7BaQFM3SLs
Qlmd5hkzygyL1ra
+cWajPjITCz9Ph6qldna2+OrluTdvCcpjwIDAQBo1MwUtAdBgNVHQ4EFgQUE7ZQNcg13lmryx1s5gy9mnC1rs
YwHwYDVR0jBBgwFoAUE7ZQNcg13lmryx1s5gy9mnC1rsYwDwYDVR0TAQH/BAUwAwEB/
zANBgkqhkiG9w0BAQsFAANBAM5wGi88jYwLgOnGbae5hH3I9lMBKxGqv17Cbm1tjWuUogVINz86lqvCpuhzL
D/vzJAqPluDwqM8uvzjgRfZs8=\n-----END CERTIFICATE-----",
  "key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIBOQIBAAJBANFBGzM274DiUyqynA1MPcYxasTOWwKbTNOi7EJZg+YZM8oMi9a2vnFmozyZUwsc/
T4eqpXZ2vtjyqLk3bwnKY8CAwEAQJBAI7LMPaH/HQk/b/bVmY0qsr
+me9nb9BqFLuqzwKbx0hSmWPOWfSd3rOFISopyHqgYtAsPfvPumEdGbdnCyU8zAECIQD71768K1ejb
+ei2lqZqHaczqDUNQxMh54yot9F2yVWjwlhANS1Y1Jv89WEU/ZvMS9a4638Msv2c4Gp08RtXNyn0BAiA0H4b
+cwoEbZjHf+HYg6Fo+uxu5TvSaw8287a6Qo0LyQlFVZSIYYWp1T6oiX5rdLzBiap4N0gJWdsa2ihmV59LAQlgK8N
+j1daq63b0bj9k4HruhQtgxl6U9nFBemH4zTRYM=\n-----END RSA PRIVATE KEY-----",
  "timestamp" : 1650595334578,
  "expire_time" : 1596865564000
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Request failed.
401	Insufficient token permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.13.3 Querying a Certificate

Function

This API is used to query a certificate.

URI

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

Table 4-759 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 4-760 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.

Request Parameters

Table 4-761 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 4-762 Response body parameters

Parameter	Type	Description
id	String	Certificate ID.
name	String	Certificate Name
content	String	Certificate file, which is in PEM format.
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 are 0 , 1 , and 2 . 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 4-763 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name

Parameter	Type	Description
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-764 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-765 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-766 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

Table 4-767 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 4-768 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.

Request Parameters

Table 4-769 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 4-770 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Certificate name. The value can contain a maximum of 64 characters. Only digits, letters, hyphens (-), underscores (_), and periods (.) are allowed.

Response Parameters

Status code: 200

Table 4-771 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate Name
expire_time	Long	Certificate expiration timestamp
timestamp	Long	Time.

Status code: 400

Table 4-772 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-773 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-774 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	Insufficient token permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.13.5 Deleting a Certificate.

Function

This API is used to delete a certificate.

URI

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

Table 4-775 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 4-776 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.

Request Parameters

Table 4-777 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 4-778 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file in PEM format
key	String	Private key of the certificate, which is in PEM format.
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate expiration status. The options are 0 , 1 , and 2 . 0 : The certificate is valid. 1 : The certificate has expired; 2 : The certificate will expire within one month.
timestamp	Long	Certificate upload timestamp

Parameter	Type	Description
bind_host	Array of BindHost objects	Domain name associated with the certificate

Table 4-779 BindHost

Parameter	Type	Description
id	String	Domain ID
hostname	String	Protected domain name
waf_type	String	Domain name mode: cloud (cloud mode)/ premium (dedicated mode)
mode	String	This parameter is required only by the dedicated mode.

Status code: 400

Table 4-780 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-781 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-782 Response body parameters

Parameter	Type	Description
error_code	String	Error Code

Parameter	Type	Description
error_msg	String	Error Messages

Example Requests

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

Example Responses

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK
400	Request failed.
401	Insufficient token permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.2.13.6 Applying a Certificate to a Domain Name

Function

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

URI

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

Table 4-783 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	HTTPS certificate ID. It can be obtained by calling the ListCertificates API.

Table 4-784 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project. It can be obtained by called the ListEnterpriseProject API of EPS.

Request Parameters

Table 4-785 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 4-786 Request body parameters

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

Response Parameters

Status code: 200

Table 4-787 Response body parameters

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

Table 4-788 CertificateBundlingHostBody

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain Name
waf_type	String	WAF mode. The value can be cloud for the cloud mode or premium for the dedicated mode. Enumeration values: <ul style="list-style-type: none"> • cloud • premium

Status code: 400

Table 4-789 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 401

Table 4-790 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Status code: 500

Table 4-791 Response body parameters

Parameter	Type	Description
error_code	String	Error Code
error_msg	String	Error Messages

Example Requests

```
GET https://{Endpoint}/v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts?enterprise_project_id=0
{
  "cloud_host_ids": [ "85e554189d494c0f97789e93531c9f90" ],
  "premium_host_ids": [ "4e9e97c425fc463c8f374b90124e8392" ]
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id": "3ac1402300374a63a05be68c641e92c8",
  "name": "www.abc.com",
  "timestamp": 1636343349139,
  "expire_time": 1650794100000,
  "bind_host": [ {
    "id": "e350cf556da34adab1f017523d1c05ed",
    "hostname": "www.demo.com",
    "waf_type": "cloud",
    "bandwidth": 0,
    "qps": 0
  } ]
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed

Status Code	Description
401	Insufficient token permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

5 Permissions and Supported Actions

5.1 Introduction

This chapter describes fine-grained permissions management for your WAF. If your account does not need individual IAM users, then you may skip over this chapter.

By default, new IAM users do not have permissions assigned. You need to add a user to one or more groups, and assign permissions policies to these groups. Users inherit permissions from the groups to which they are added and can perform specified operations on cloud services based on the permissions.

You can grant users permissions by using roles and policies. Roles: A type of coarse-grained authorization mechanism that defines permissions related to user responsibilities. Policies: A type of fine-grained authorization mechanism that defines permissions required to perform operations on specific cloud resources under certain conditions, meeting requirements for secure access control.

NOTE

Policy-based authorization is useful if you want to allow or deny the access to an API.

An account has all of the permissions required to call all APIs, but IAM users must have the required permissions specifically assigned. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully.

5.2 Supported Actions

WAF provides system-defined policies that can be directly used in IAM. You can also create custom policies and use them to supplement system-defined policies, implementing more refined access control. Operations supported by policies are specific to APIs. The following are common concepts related to policies:

- Permissions: Statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called by a user who has been granted specific permissions.
- Actions: Specific operations that are allowed or denied in a custom policy.

- Related actions: Actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the related actions.
- IAM or enterprise projects: Type of projects for which an action will take effect. Policies that contain actions for both IAM and enterprise projects can be used and take effect for both IAM and Enterprise Management. Policies that only contain actions for IAM projects can be used and only take effect for IAM.

 **NOTE**

√: supported; x: not supported

Permission	API	Action	Dependency Item	IAM Project
Querying details about a dedicated WAF instance	GET /v1/{project_id}/premium-waf/instance/{instance_id}	waf:premiuminstance:get	-	√
Deleting a dedicated WAF instance	DELETE /v1/{project_id}/premium-waf/instance/{instance_id}	waf:premiuminstance:delete	-	√
Renaming a dedicated WAF instance	PUT /v1/{project_id}/premium-waf/instance/{instance_id}	waf:premiuminstance:put	-	√
Creating a dedicated WAF instance	POST /v1/{project_id}/premium-waf/instance	waf:premiuminstance:create	-	√
Querying dedicated WAF instances	GET /v1/{project_id}/premium-waf/instance	waf:premiuminstance:list	-	√
Adding a domain name to a dedicated WAF instance	POST /v1/{project_id}/premium-waf/host	waf:instance:create	-	√
Querying domain names protected by dedicated WAF engines	GET /v1/{project_id}/premium-waf/host	waf:instance:list	-	√
Modifying a domain name protected by a dedicated WAF instance	PUT /v1/{project_id}/premium-waf/host/{host_id}	waf:instance:put	-	√

Permission	API	Action	Dependency Item	IAM Project
Querying domain name settings in dedicated mode	GET /v1/{project_id}/premium-waf/host/{host_id}	waf:instance:get	-	√
Deleting a domain name from a dedicated WAF instance	DELETE /v1/{project_id}/premium-waf/host/{host_id}	waf:instance:delete	-	√
Modifying the protection status of a domain name in dedicated mode	PUT /v1/{project_id}/premium-waf/host/{host_id}/protect-status	waf:instance:put	-	√
Modifying the access status of a domain name in dedicated mode	PUT /v1/{project_id}/premium-waf/host/{host_id}/access_status	waf:instance:put	-	√
Querying the policy list	GET /v1/{project_id}/waf/policy	waf:policy:list	-	√
Creating a protection policy	POST /v1/{project_id}/waf/policy	waf:policy:create	-	√
Querying a policy by ID	GET /v1/{project_id}/waf/policy/{policy_id}	waf:policy:get	-	√
Updating a policy	PATCH /v1/{project_id}/waf/policy/{policy_id}	waf:policy:put	-	√
Deleting a protection policy	DELETE /v1/{project_id}/waf/policy/{policy_id}	waf:policy:delete	-	√
Querying the blacklist and whitelist rule list	GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip	waf:whiteBlackIpRule:list	-	√

Permission	API	Action	Dependency Item	IAM Project
Creating a blacklist or whitelist rule	POST /v1/{project_id}/waf/policy/{policy_id}/whiteblackip	waf:whiteBlackIpRule:create	-	√
Querying a blacklist or whitelist rule	GET /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}	waf:whiteBlackIpRule:get	-	√
Updating a blacklist or whitelist rule	PUT /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}	waf:whiteBlackIpRule:put	-	√
Deleting a blacklist or whitelist rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/whiteblackip/{rule_id}	waf:whiteBlackIpRule:delete	-	√
Querying the CC attack protection rule list	GET /v1/{project_id}/waf/policy/{policy_id}/cc	waf:ccRule:list	-	√
Creating a CC attack protection rule	POST /v1/{project_id}/waf/policy/{policy_id}/cc	waf:ccRule:create	-	√
Querying a CC attack protection rule by ID	GET /v1/{project_id}/waf/policy/{policy_id}/cc/{rule_id}	waf:ccRule:get	-	√
Updating a CC attack protection rule	PUT /v1/{project_id}/waf/policy/{policy_id}/cc/{rule_id}	waf:ccRule:put	-	√
Deleting a CC attack protection rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/cc/{rule_id}	waf:ccRule:delete	-	√
Querying precise protection rules	GET /v1/{project_id}/waf/policy/{policy_id}/custom	waf:preciseProtectionRule:list	-	√

Permission	API	Action	Dependency Item	IAM Project
Creating a precise protection rule	POST /v1/{project_id}/waf/policy/{policy_id}/custom	waf:preciseProtectionRule:create	-	√
Querying a precise protection rule by ID	GET /v1/{project_id}/waf/policy/{policy_id}/custom/{rule_id}	waf:preciseProtectionRule:get	-	√
Updating a precise protection rule	PUT /v1/{project_id}/waf/policy/{policy_id}/custom/{rule_id}	waf:preciseProtectionRule:put	-	√
Deleting a precise protection rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/custom/{rule_id}	waf:preciseProtectionRule:delete	-	√
Querying data masking rules	GET /v1/{project_id}/waf/policy/{policy_id}/privacy	waf:privacyRule:list	-	√
Adding a data masking rule	POST /v1/{project_id}/waf/policy/{policy_id}/privacy	waf:privacyRule:create	-	√
Querying a data masking rule by ID	GET /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}	waf:privacyRule:get	-	√
Updating a data masking rule	PUT /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}	waf:privacyRule:put	-	√
Deleting a data masking rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/privacy/{rule_id}	waf:privacyRule:delete	-	√
Querying the list of web tamper protection rules	GET /v1/{project_id}/waf/policy/{policy_id}/antitamper	waf:antiTamperRule:list	-	√

Permission	API	Action	Dependency Item	IAM Project
Creating a web tamper protection rule	POST /v1/{project_id}/waf/policy/{policy_id}/antitamper	waf:antiTamp erRule:create	-	√
Querying a web tamper protection rule by ID	GET /v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}	waf:antiTamp erRule:get	-	√
Deleting a web tamper protection rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/antitamper/{rule_id}	waf:antiTamp erRule:delete	-	√
Updating the cache of a web tamper protection rule	POST /v1/{project_id}/waf/policy/{policy_id}/antitamper/{antitamperid}/refresh	waf:antiTamp erRule:create	-	√
Querying false alarm masking rules	GET /v1/{project_id}/waf/policy/{policy_id}/ignore	waf:falseAlar mMaskRule:li st	-	√
Adding a false alarm masking rule	POST /v1/{project_id}/waf/policy/{policy_id}/ignore	waf:falseAlar mMaskRule:cr eate	-	√
Querying a false alarm masking rule	GET /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}	waf:falseAlar mMaskRule:g et	-	√
Updating a false alarm masking rule	PUT /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}	waf:falseAlar mMaskRule:p ut	-	√
Deleting a false alarm masking rule	DELETE /v1/{project_id}/waf/policy/{policy_id}/ignore/{rule_id}	waf:falseAlar mMaskRule:d elete	-	√
Querying the certificate list	GET /v1/{project_id}/waf/certificate	waf:certificate :get	-	√

Permission	API	Action	Dependency Item	IAM Project
Creating a certificate	POST /v1/{project_id}/waf/certificate	waf:certificate:create	-	√
Querying a certificate	GET /v1/{project_id}/waf/certificate/{certificate_id}	waf:certificate:list	-	√
Modifying a certificate	PUT /v1/{project_id}/waf/certificate/{certificate_id}	waf:certificate:put	-	√
Deleting a certificate	DELETE /v1/{project_id}/waf/certificate/{certificate_id}	waf:certificate:delete	-	√
Applying a certificate to a domain name	POST /v1/{project_id}/waf/certificate/{certificate_id}/apply-to-hosts	waf:certificate:apply	-	√
Querying the number of requests and attacks on dashboard	GET /v1/{project_id}/waf/overviews/statistics	waf:event:get	-	√
Querying top N statistics on dashboard	GET /v1/{project_id}/waf/overviews/classification	waf:event:get	-	√
Querying the list of attack events	GET /v1/{project_id}/waf/event	waf:event:get	-	√
Querying attack event details	GET /v1/{project_id}/waf/event/{eventid}	waf:event:get	-	√

A Appendix

A.1 Status Codes

Status Code	Description	Meaning
200	OK	The request has succeeded.
204	No Content	The server successfully processed the request and is not returning any content.
400	Bad Request	Incorrect parameter
401	Unauthorized	Authentication failed.
403	Forbidden	No permission. The access is denied.
404	Not Found	The requested resource could not be found.
406	Not Acceptable	The request is unacceptable.
409	Conflict	The request could not be processed because of conflict in the current state of the resource.
500	Internal Error	Internal server error
503	Server Unavailable	The server is currently unavailable.

A.2 Cloud Mode Error Code

Function Description

A customized message is returned when errors, such as 400 or 500, occur in an extended public cloud API. This section describes the meaning of each error code.

Response Format

- HTTP status code
400
- Response body example

```
{  
  "error_code": "11000000",  
  "error_msg": "hx error."  
}
```

Error Code Description

Error Code	Description
WAF.1001	Invalid request
WAF.1002	Invalid page number or page size
WAF.1003	Invalid ID
WAF.1004	Invalid name
WAF.1005	Invalid path
WAF.1006	Invalid rate limiting mode
WAF.1007	Invalid user identifier
WAF.1008	Invalid protective action
WAF.1009	Invalid CC attack protection rule
WAF.1012	Invalid Referer
WAF.1013	Invalid type
WAF.1014	Invalid logic
WAF.1015	Invalid subfield
WAF.1016	Invalid content
WAF.1018	Invalid precise protection rule
WAF.1019	Invalid data masking rule
WAF.1020	Invalid User-Agent
WAF.1021	Invalid IP address

Error Code	Description
WAF.1022	Invalid false alarm masking rule
WAF.1023	Invalid number
WAF.1025	Invalid time
WAF.1029	Invalid protection level
WAF.1030	Invalid priority
WAF.1031	Invalid attack type
WAF.1600	Invalid domain name
WAF.1601	Invalid protocol
WAF.1602	Invalid server address
WAF.1603	Invalid port
WAF.1604	Invalid protection status or connection status
WAF.1605	Invalid certificate content format
WAF.1606	Invalid private key format
WAF.2001	IDs do not match.
WAF.2002	The protective action cannot be set to block.
WAF.2004	The user identifier is unavailable in a CC attack protection rule.
WAF.2005	The condition list in the precise protection rule is empty.
WAF.2006	Subfields cannot be set for conditions in the precise protection rule.
WAF.2007	The precise protection rule contains duplicate conditions.
WAF.2008	Wildcard domains are not supported.
WAF.3001	The requested resource was not found.
WAF.3002	The number of resources exceeds the maximum limit allowed.
WAF.3003	The resource is in use.
WAF.3004	The system is busy.
WAF.3005	The domain name already exists.
WAF.3006	The rule name already exists.
WAF.3007	Rules conflict with each other.

Error Code	Description
WAF.3008	The rule already exists.
WAF.3010	The policy has been bound to the domain name.
WAF.4000	The API cannot be found.
WAF.4001	The method is not allowed.
WAF.5000	Internal error
WAF.5001	Failed to access data.
WAF.5002	HTTP request failed.
WAF.5003	Elasticsearch request failed.
WAF.6000	Connection failed.
WAF.6001	The request is not permitted.
WAF.6002	Failed to read obtained data.
WAF.6003	Failed to export data.
WAF.6004	Failed to import data.
WAF.7001	The data exceeds the valid length.
WAF.9001	IAM authentication failed.
WAF.9002	No permission

A.3 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

Status Code	Error Codes	Error Message	Description	Solution
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
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

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00011014	website.not.register	The website has not been put on record	Filing website
400	WAF.00012001	invalid.token	Illegal token	Check whether the token is correct
400	WAF.00012002	invalid.project	Inconsistency between project_id and token	Check Consistency of project_id and token
400	WAF.00012003	permission.denied	No permission	Assign WAF required permissions to account
400	WAF.00012004	account.frozen	Account freezing	Account unfreezing
400	WAF.00012005	not.subscribe	Unsubscribed	Subscribe to WAF service first
400	WAF.00012006	pdp.permission.denied	No permission	Check the PDP authority of the account
400	WAF.00012007	jwt.authentication.disabled	JWT certification off	Open JWT certification
400	WAF.00012008	jwt.authentication.invalid.token	Illegal JWT token	Check whether the account has JWT permission
400	WAF.00012009	jwt.authentication.failed	JWT authentication failed	Give the account authorization first
400	WAF.00012010	eps.all.not.support	eps.all.not.support	Open the write permission of enterprise project
400	WAF.00013001	insufficient.quota	Insufficient function quota	Purchase function quota upgrade package
400	WAF.00013002	feature.not.support	Function not supported	nothing
400	WAF.00013003	port.not.support	Port not supported	Port conversion via ELB

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00013004	protocol.not.support	Protocol not supported	Through ELB conversion protocol
400	WAF.00013005	wildcard.domain.not.support	Pan domain name not supported	Use specific domain names
400	WAF.00013006	ipv6.not.support	IPv6 is not supported	The current version does not support IPv6
400	WAF.00013007	insufficient.tenant.quota	insufficient.tenant.quota	Purchase quota upgrade package
400	WAF.00014001	resource.not.found	Resource not found	The resource has been deleted or does not exist
400	WAF.00014002	resource.already.exists	Resource already exists	Resource already exists
400	WAF.00014003	open.protection.failed	Failed to open protection	Check domain name protection status
400	WAF.00014004	access.failed	Failed to access WAF	Modify DNS resolution
400	WAF.00014005	bypass.failed	Bypasswaf failed	Check the protection status and try again
400	WAF.00014006	proxy.config.error	Agent configuration error	Reconfigure the agent correctly and try again
400	WAF.00014007	host.conflict	Domain name conflict	Check that the domain name already exists in the website configuration
400	WAF.00014008	cert.inconsistent	The same domain name, but the certificate is inconsistent	Use the same certificate
400	WAF.00014009	api.not.found	The interface does not exist	Check interface URL

Status Code	Error Codes	Error Message	Description	Solution
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	insufficient.tenant.quota	Insufficient tenant quota	Purchase quota upgrade package
400	WAF.00014013	exclusive.ip.config.error	Exclusive IP configuration error	Check exclusive IP configuration
400	WAF.00014014	exclusive.ip.config.error	exclusive.ip.config.error	Check exclusive IP configuration
400	WAF.00021002	url.param.illegal	The URL format is incorrect	It is recommended to modify the URL in the request body parameter to the standard URL and debug again
400	WAF.00021003	request.body.illegal	The request body parameter is incorrect	It is recommended that you verify the parameters according to the document before initiating debugging
400	WAF.00021004	id.illegal	The unique identifier ID format is incorrect	It is recommended to follow the correct instructions in the documentation to obtain the ID

Status Code	Error Codes	Error Message	Description	Solution
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
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

Status Code	Error Codes	Error Message	Description	Solution
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
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

Status Code	Error Codes	Error Message	Description	Solution
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
400	WAF.00021020	offsetOrLimit.illegal	Paging parameter error	It is recommended to fill in pagination parameters according to the documents in the help center
400	WAF.00021021	param.exceed.limit	Parameter exceeds limit	It is recommended to view the parameter limits according to the documentation in the help center
400	WAF.00022002	resource.already.exists	Resource already exists	It is recommended to check whether the created resource already exists in the console
400	WAF.00022003	resource.is.being.used	The resource is in use	Remove the relationship between the resource and the user before deleting the resource
400	WAF.00022004	rule.conflict	Rule conflict	Check whether the target rule conflicts with the existing rule

Status Code	Error Codes	Error Message	Description	Solution
403	WAF.00022005	insufficient.quota	Insufficient resources	It is recommended to purchase the upgrade package of corresponding resources
404	WAF.00022001	resource.not.found	Resource does not exist	It is recommended to check the resource status on the console or ask for technical support
500	WAF.00010001	internal.error	Internal error	Contact technical support
500	WAF.00010002	system.busy	Internal error	Contact technical support
500	WAF.00010003	cname.failed	Failed to create or modify CNAME	Contact technical support
500	WAF.00010004	cname.failed	Failed to get OBS file download link	Contact technical support
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

A.4 Obtaining a Project ID

1. Obtain the token.
For details, see [Token-based Authentication](#).
2. Obtain the project ID.
The API for obtaining the project ID is **GET https://iam.eu-west-0.myhuaweicloud.com/v3/projects**.
Add **X-Auth-Token** to the request header, and set the value of **X-Auth-Token** to the token obtained in the preceding step.

The following is an example response. **id** indicates the project ID.

```
{
  "links": {},
  "projects": [
    {
      "is_domain": ,
      "description": "",
      "links": {},
      "enabled": true,
      "id": "", //Project ID
      "parent_id": "",
      "domain_id": "",
      "name": ""
    },
    ...
  ]
}
```

A.5 Character Set Specifications

- Character Set Specifications for Key

The key cannot be left blank or be an empty string.

- In Deutsche Telekom, a tag key can contain uppercase letters, lowercase letters, digits, hyphens (-), underscores (_), and sign @.
- In other environments, a tag key cannot contain the following characters: ASCII (0-31), equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars (|), and slashes (/).

- Character Set Specifications for Value

The value cannot be left blank but can be an empty string.

- In Deutsche Telekom, a tag value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_).
- In other environments, a tag value cannot contain the following characters: ASCII (0-31), equal signs (=), asterisks (*), left angle brackets (<), right angle brackets (>), backslashes (\), commas (,), vertical bars (|), and slashes (/).

B Change History

Released On	Description
2022-12-28	This issue is the second official issue. Added the APIs for the dedicated mode.
2021-07-14	This issue is the first official release.