Web Application Firewall

API Reference

Issue 06

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Contents

1 Before You Start

1.1 Overview

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

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

Before you start, ensure that you are familiar with WAF. For details, see **Web Application Firewall (WAF)**.

1.2 API Calling

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

1.3 Notes and Constraints

For details about the constraints, see the API description.

1.4 Concepts

- Account

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

- User

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

  An IAM user can view the account ID and user ID on the **My Credentials** page of the management console. The domain name, username, and password will be required for API authentication.

- Region

  Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified as universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides services of the same type only or for specific tenants.

  For details, see **Region and AZ**.

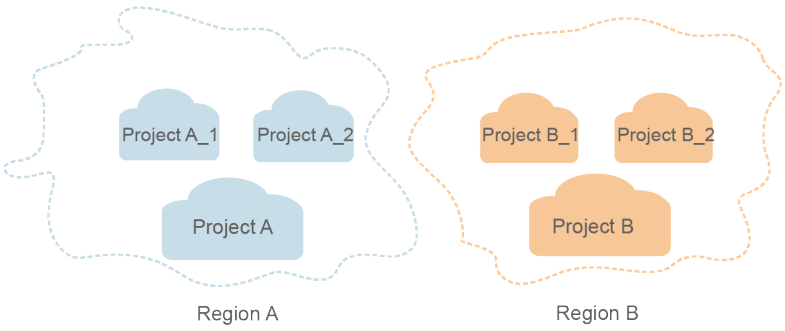
- Availability Zone (AZ)

  An AZ comprises one or multiple physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

- Project

  Projects group and isolate compute, storage, and network resources across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and create resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

  Figure 1-1 Project isolation model



2 API Overview

You can use all functions of WAF through its APIs.

Type	Description
Cloud mode APIs	APIs for creating, modifying, querying, and removing domain names in cloud mode.
Dedicated mode APIs	APIs for creating, modifying, querying, and removing domain names in dedicated mode
Certificate APIs	APIs for creating, modifying, and querying certificates.
Protection rule APIs	APIs for creating, updating, querying, and deleting protection rules.
Protection policy APIs	APIs for creating policies in batches and modifying the domain names that a policy applies to.
Event API	API for querying details of an event.
Domain name query API	API for querying domain names connected to WAF

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**.

  For example, the endpoint of IAM in the **CN North-Beijing1** region is **iam.cn-north-1.myhuaweicloud.com**.

- **resource-path**:

  Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.

- **query-string**:

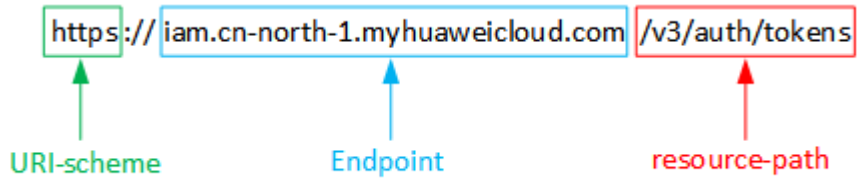
  Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "Parameter name=Parameter value". For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the **CN North-Beijing1** region, obtain the endpoint of IAM (**iam.cn-north-1.myhuaweicloud.com**) for this region and the

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

```
https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
```

Figure 3-1 Example URI



NOTE

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

Request Methods

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

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

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

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows:

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

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

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

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

Request Body

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

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

In the case of the API used to **obtain a user token**, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Set ***username*** to the name of a user, ***domainname*** to the name of the account that the user belongs to, ********* to the user's login password, and ***xxxxxxxxxxxxxxxxx*** to the project name, such as **cn-north-1**. 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://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

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

```
    }
  }
}
```

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:

```
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

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

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

Figure 3-2 Header fields of the response to the request for obtaining a user token

(Optional) Response Body

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

The following shows part of the response body for the API to **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": "xxxxxxxx",
......
```

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

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

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

4 API

4.1 Policy Management

4.1.1 Querying the Protection Policy List

Function

This API is used to query the protection policy list.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/policy

Table 4-1 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-2 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **1**

Parameter	Mandatory	Type	Description
pagesize	No	Integer	Number of records on each page Default: **10**
name	No	String	Policy name

Request Parameters

Table 4-3 Request header parameters

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

Response Parameters

Status code: 200

Table 4-4 Response body parameters

Parameter	Type	Description
total	Integer	Number of policies
items	Array of **PolicyResponse** objects	Policy details

Table 4-5 PolicyResponse

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	**PolicyAction** object	Operation

Parameter	Type	Description
options	**PolicyOption** object	Option
level	Integer	Protection level
full_detection	Boolean	Detection mode in a precise protection rule
bind_host	Array of **BindHost** objects	Basic information about the protected domain name
timestamp	Long	Time the policy was created
extend	Map<String,String>	Extended field

Table 4-6 PolicyAction

Parameter	Type	Description
category	String	Protection level. The options are log and block.

Table 4-7 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled
common	Boolean	Whether general check is enabled
crawler	Boolean	Whether anti-crawler is enabled
crawler_engine	Boolean	Whether the search engine check is enabled
crawler_scanner	Boolean	Whether anti-crawler is enabled
crawler_script	Boolean	Whether JavaScript-based anti-crawler is enabled
crawler_other	Boolean	Whether the other check item of anti-crawler is enabled
webshell	Boolean	Whether web shell check is enabled
cc	Boolean	Whether the CC attack protection is enabled
custom	Boolean	Whether precise protection is enabled
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled

Parameter	Type	Description
ignore	Boolean	Whether false alarm masking is enabled
privacy	Boolean	Whether data masking is enabled
antitamper	Boolean	Whether web tamper protection is enabled

Table 4-8 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-9 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-10 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-11 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.1.2 Creating a Protection Policy

Function

This API is used to create a protection policy.

Debugging

You can use **API Explorer** to debug this API.

URI

POST /v1/{project_id}/waf/policy

Table 4-12 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-13 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-14 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 4-15 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Policy name. A policy name can contain only digits, letters, and underscores (_), and contains a maximum of 64 characters.

Response Parameters

Status code: 200

Table 4-16 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
level	Integer	Protection level
action	**PolicyAction** object	Operation
options	**PolicyOption** object	Option
full_detection	Boolean	Detection mode in a precise protection rule
hosts	Array of strings	ID of the protected website.
bind_host	Array of **BindHost** objects	Information about the protected website
timestamp	Long	Time the policy was created
extend	Object	Extended field

Table 4-17 PolicyAction

Parameter	Type	Description
category	String	Protection level. The options are log and block.

Table 4-18 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled
common	Boolean	Whether general check is enabled
crawler	Boolean	Whether anti-crawler is enabled
crawler_engine	Boolean	Whether the search engine check is enabled
crawler_scanner	Boolean	Whether anti-crawler is enabled
crawler_script	Boolean	Whether JavaScript-based anti-crawler is enabled

Parameter	Type	Description
crawler_other	Boolean	Whether the other check item of anti-crawler is enabled
webshell	Boolean	Whether web shell check is enabled
cc	Boolean	Whether the CC attack protection is enabled
custom	Boolean	Whether precise protection is enabled
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled
ignore	Boolean	Whether false alarm masking is enabled
privacy	Boolean	Whether data masking is enabled
antitamper	Boolean	Whether web tamper protection is enabled

Table 4-19 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-20 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-21 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-22 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.1.3 Querying a Protection Policy by ID

Function

This API is used to query a protection policy by ID.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-23 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-24 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-25 Request header parameters

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

Response Parameters

Status code: 200

Table 4-26 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	**PolicyAction** object	Operation
options	**PolicyOption** object	Option
level	Integer	Protection level
full_detection	Boolean	Detection mode in a precise protection rule
bind_host	Array of **BindHost** objects	Basic information about the protected domain name
timestamp	Long	Time the policy was created
extend	Map<String,String>	Extended field

Table 4-27 PolicyAction

Parameter	Type	Description
category	String	Protection level. The options are log and block.

Table 4-28 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled
common	Boolean	Whether general check is enabled
crawler	Boolean	Whether anti-crawler is enabled
crawler_engine	Boolean	Whether the search engine check is enabled
crawler_scanner	Boolean	Whether anti-crawler is enabled
crawler_script	Boolean	Whether JavaScript-based anti-crawler is enabled
crawler_other	Boolean	Whether the other check item of anti-crawler is enabled

Parameter	Type	Description
webshell	Boolean	Whether web shell check is enabled
cc	Boolean	Whether the CC attack protection is enabled
custom	Boolean	Whether precise protection is enabled
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled
ignore	Boolean	Whether false alarm masking is enabled
privacy	Boolean	Whether data masking is enabled
antitamper	Boolean	Whether web tamper protection is enabled

Table 4-29 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-30 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-31 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-32 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.1.4 Updating the Domain Name of a Protection Policy

Function

This API is used to update domain names a protection policy applies to.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-33 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-34 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
hosts	Yes	String	Domain name ID. It can be obtained from the protected website list.

Request Parameters

Table 4-35 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 4-36 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name

Parameter	Type	Description
action	**PolicyAction** object	Operation
options	**PolicyOption** object	Option
level	Integer	Protection level
full_detection	Boolean	Detection mode in a precise protection rule
bind_host	Array of **BindHost** objects	Basic information about the protected domain name
timestamp	Long	Time the policy was created
extend	Map<String,String>	Extended field

Table 4-37 PolicyAction

Parameter	Type	Description
category	String	Protection level. The options are log and block.

Table 4-38 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled
common	Boolean	Whether general check is enabled
crawler	Boolean	Whether anti-crawler is enabled
crawler_engine	Boolean	Whether the search engine check is enabled
crawler_scanner	Boolean	Whether anti-crawler is enabled
crawler_script	Boolean	Whether JavaScript-based anti-crawler is enabled
crawler_other	Boolean	Whether the other check item of anti-crawler is enabled
webshell	Boolean	Whether web shell check is enabled
cc	Boolean	Whether the CC attack protection is enabled
custom	Boolean	Whether precise protection is enabled

Parameter	Type	Description
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled
ignore	Boolean	Whether false alarm masking is enabled
privacy	Boolean	Whether data masking is enabled
antitamper	Boolean	Whether web tamper protection is enabled

Table 4-39 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-40 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-41 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-42 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.1.5 Updating a Protection Policy

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-43 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-44 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-45 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 4-46 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Policy name
action	No	**PolicyAction** object	Operation
options	No	**PolicyOption** object	Option

Table 4-47 PolicyAction

Parameter	Mandatory	Type	Description
category	No	String	Protection level. The options are log and block.

Table 4-48 PolicyOption

Parameter	Mandatory	Type	Description
webattack	No	Boolean	Whether basic web protection is enabled
common	No	Boolean	Whether general check is enabled
crawler	No	Boolean	Whether anti-crawler is enabled
crawler_engine	No	Boolean	Whether the search engine check is enabled
crawler_scanner	No	Boolean	Whether anti-crawler is enabled
crawler_script	No	Boolean	Whether JavaScript-based anti-crawler is enabled
crawler_other	No	Boolean	Whether the other check item of anti-crawler is enabled
webshell	No	Boolean	Whether web shell check is enabled
cc	No	Boolean	Whether the CC attack protection is enabled
custom	No	Boolean	Whether precise protection is enabled
whiteblackip	No	Boolean	Whether blacklist and whitelist protection is enabled
ignore	No	Boolean	Whether false alarm masking is enabled
privacy	No	Boolean	Whether data masking is enabled
antitamper	No	Boolean	Whether web tamper protection is enabled

Response Parameters

Status code: 200

Table 4-49 Response body parameters

Parameter	Type	Description
id	String	Policy ID
name	String	Policy name
action	**PolicyAction** object	Operation
options	**PolicyOption** object	Option
level	Integer	Protection level
full_detection	Boolean	Detection mode in a precise protection rule
bind_host	Array of **BindHost** objects	Basic information about the protected domain name
timestamp	Long	Time the policy was created
extend	Map<String,String>	Extended field

Table 4-50 PolicyAction

Parameter	Type	Description
category	String	Protection level. The options are log and block.

Table 4-51 PolicyOption

Parameter	Type	Description
webattack	Boolean	Whether basic web protection is enabled
common	Boolean	Whether general check is enabled
crawler	Boolean	Whether anti-crawler is enabled
crawler_engine	Boolean	Whether the search engine check is enabled
crawler_scanner	Boolean	Whether anti-crawler is enabled

Parameter	Type	Description
crawler_script	Boolean	Whether JavaScript-based anti-crawler is enabled
crawler_other	Boolean	Whether the other check item of anti-crawler is enabled
webshell	Boolean	Whether web shell check is enabled
cc	Boolean	Whether the CC attack protection is enabled
custom	Boolean	Whether precise protection is enabled
whiteblackip	Boolean	Whether blacklist and whitelist protection is enabled
ignore	Boolean	Whether false alarm masking is enabled
privacy	Boolean	Whether data masking is enabled
antitamper	Boolean	Whether web tamper protection is enabled

Table 4-52 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-53 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-54 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-55 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.1.6 Deleting a Policy

Function

This API is used to delete a policy.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-56 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-57 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-58 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: 400

Table 4-59 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-60 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-61 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2 Rule Management

4.2.1 Querying False Alarm Masking Rules

Function

Querying False Alarm Masking Rules

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-62 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	policyid

Table 4-63 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **0**
pagesize	No	Integer	Number of records on each page Default: **10**

Request Parameters

Table 4-64 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 4-65 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules in the policy

Table 4-66 IngnoreItem

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
timestamp	Long	Rule creation timestamp
description	String	Rule description
status	Integer	Status. The options can be 0 and 1. 0: Disabled 1: Enabled
url	String	URL of the false alarm

Parameter	Type	Description
rule	String	Masked rule. The value can be the ID of the matched rule, all rules (all), or enumeration value of the attack type. Enumeration values of attack types: XSS attacks: xss or sqli Command injection: cmdi Malicious crawlers: robot Local file inclusion: lfi Remote file inclusion: rfi Website Trojans: webshell CC attack: cc Precise protection: custom_custom IP address blacklist and whitelist: custom_whiteblackip Geolocation access control: custom_geoip Anti-tamper protection: antitamper Anti-crawler protection: anticrawler Data leakage prevention: leakage Illegal requests: illegal Other attack types: vuln
domain	Array of strings	Protected domain name
url_logic	String	URL match logic (prefix: prefix match; equal: full match)
advanced	**Advance** object	Advanced settings

Table 4-67 Advance

Parameter	Type	Description
index	String	Index (parameter: params; Session cookie: cookie; Header field: header; Body field: body; multiple combinations: multipart)
contents	Array of strings	Specified field (available only for param, cookie, and header)

Status code: 400

Table 4-68 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-69 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-70 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.2.2 Querying the Reference Table List

Function

This API is used to query the reference table list.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/valuelist

Table 4-71 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-72 Query parameters

Parameter	Mandatory	Type	Description
page	No	Integer	Page number
pagesize	No	Integer	Number of records per page

Request Parameters

Table 4-73 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 4-74 Response body parameters

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

Table 4-75 ValueListResponseBody

Parameter	Type	Description
id	String	Reference table ID
name	String	Reference table name
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table creation timestamp
values	Array of strings	Reference table content

Status code: 400

Table 4-76 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-77 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-78 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.3 Creating a Reference Table

Function

This API is used to create a reference table.

Debugging

You can use **API Explorer** to debug this API.

URI

POST /v1/{project_id}/waf/valuelist

Table 4-79 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-80 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-81 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 4-82 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the reference table. The name is a string consisting of 2 to 32 characters. Minimum: **2** Maximum: **32**
type	Yes	String	Reference table type. For details, see the enumerated type list. Minimum: **2** Maximum: **32**
values	No	Array of strings	Reference table content

Parameter	Mandatory	Type	Description
description	No	String	Description of the reference table, which contains a maximum of 128 characters. Minimum: **0** Maximum: **128**

Response Parameters

Status code: 200

Table 4-83 Response body parameters

Parameter	Type	Description
id	String	Reference table ID
name	String	Reference table name
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table creation timestamp
values	Array of strings	Reference table content

Status code: 400

Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-85 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-86 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.4 Modifying a Reference Table

Function

This API is used to modify a reference table.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-87 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
valuelistid	Yes	String	Reference table ID

Table 4-88 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-89 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 4-90 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the reference table. The name is a string consisting of 2 to 32 characters. Minimum: **2** Maximum: **32**
type	Yes	String	Reference table type. For details, see the enumerated type list. Minimum: **2** Maximum: **32**

Parameter	Mandatory	Type	Description
values	No	Array of strings	Reference table content
description	No	String	Description of the reference table, which contains a maximum of 128 characters. Minimum: **0** Maximum: **128**

Response Parameters

Status code: 200

Table 4-91 Response body parameters

Parameter	Type	Description
id	String	Reference table ID
name	String	Reference table name
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table creation timestamp
values	Array of strings	Reference table content

Status code: 400

Table 4-92 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-93 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-94 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.5 Deleting a Reference Table

Function

This API is used to delete a reference table.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-95 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
valuelistid	Yes	String	Reference table ID

Table 4-96 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-97 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 4-98 Response body parameters

Parameter	Type	Description
id	String	Reference table ID

Parameter	Type	Description
name	String	Reference table name
type	String	Reference table type
description	String	Reference table description
timestamp	Long	Reference table creation timestamp
values	Array of strings	Reference table content

Status code: 400

Table 4-99 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-100 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-101 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.6 Querying the List of Blacklist and Whitelist Rules

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-102 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-103 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **1**
pagesize	No	Integer	Number of records on each page. Default: **10**

Request Parameters

Table 4-104 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 4-105 Response body parameters

Parameter	Type	Description
total	Integer	Number of rules
items	Array of **WhiteBlackIpResponseBody** objects	Rule

Table 4-106 WhiteBlackIpResponseBody

Parameter	Type	Description
id	String	Rule ID
ip	String	Blacklist and whitelist
white	Integer	Type. The options are 0 and 1. 0: Block. 1: Allow
timestamp	Long	Time the rule was created

Status code: 400

Table 4-107 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-108 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-109 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.7 Creating a Whitelist or Blacklist Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-110 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-111 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-112 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 4-113 Request body parameters

Parameter	Mandatory	Type	Description
addr	Yes	String	IP addresses in the blacklist or whitelist rule
description	No	String	Description of the blacklist or whitelist rule
white	No	Integer	Protective action for the rule. The options are 0, 1, and 2. 0: Block. 1: Allow. 2: Log only.

Response Parameters

Status code: 200

Table 4-114 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
ip	String	Blacklist and whitelist

Parameter	Type	Description
white	Integer	Type. The options are 0 and 1. 0: Block. 1: Allow
timestamp	Long	Time the rule was created

Status code: 400

Table 4-115 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-116 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-117 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.8 Updating a Whitelist or Blacklist Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-118 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	ID of the blacklist or whitelist rule, which can be obtained by querying the list of blacklist and whitelist rules through the ListWhiteblackipRule interface.

Table 4-119 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-120 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 4-121 Request body parameters

Parameter	Mandatory	Type	Description
addr	Yes	String	IP addresses in the blacklist or whitelist rule
description	No	String	Description of the blacklist or whitelist rule
white	No	Integer	Protective action for the rule. The options are 0, 1, and 2. 0: Block. 1: Allow. 2: Log only.

Response Parameters

Status code: 200

Table 4-122 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
addr	String	IP addresses in the blacklist or whitelist rule

Parameter	Type	Description
description	String	Description of the blacklist or whitelist rule
white	Integer	Protective action for the rule. The options are 0, 1, and 2. 0: Block. 1: Allow. 2: Log only.

Status code: 400

Table 4-123 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-124 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-125 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.9 Deleting a Whitelist or Blacklist Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-126 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	whiteblackIpRuleId

Table 4-127 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-128 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: 400

Table 4-129 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-130 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-131 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.10 Adding a Data Masking Rule

Function

Adding a data masking rule

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-132 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-133 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-134 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 4-135 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	Rule ID
url	No	String	URL to which the data masking rule applies
category	No	String	Masked field
index	No	String	Name of the masked field

Response Parameters

Status code: 200

Table 4-136 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL to which the data masking rule applies

Parameter	Type	Description
category	String	Masked field
index	String	Name of the masked field

Status code: 400

Table 4-137 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-138 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-139 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.11 Querying a Data Masking Rule

Function

This API is used to query a data masking rule.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-140 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-141 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number

Parameter	Mandatory	Type	Description
pagesize	No	Integer	Number of records on each page.

Request Parameters

Table 4-142 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 4-143 Response body parameters

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

Table 4-144 PrivacyResponseBody

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL to which the data masking rule applies
category	String	Masked field
index	String	Name of the masked field

Status code: 400

Table 4-145 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-146 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-147 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions

Status Code	Description
500	Internal server error

Error Codes

See **Error Codes**.

4.2.12 Updating a Data Masking Rule

Function

This API is used to update a data masking rule.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-148 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	privacyRuleId

Table 4-149 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-150 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 4-151 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	Rule ID
url	No	String	URL to which the data masking rule applies
category	No	String	Masked field
index	No	String	Name of the masked field

Response Parameters

Status code: 200

Table 4-152 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URL to which the data masking rule applies
category	String	Masked field
index	String	Name of the masked field

Status code: 400

Table 4-153 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-154 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-155 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.13 Deleting a Data Masking Rule

Function

This API is used to delete a data masking rule.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-156 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	privacyRuleId

Table 4-157 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-158 Request header parameters

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

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

Response Parameters

Status code: 400

Table 4-159 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-160 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-161 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.14 Querying the Geolocation Access Control Rule List

Function

This API is used to query the geolocation access control rule list.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-162 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-163 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **1**

Parameter	Mandatory	Type	Description
pagesize	No	Integer	Number of records on each page Default: **10**

Request Parameters

Table 4-164 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 4-165 Response body parameters

Parameter	Type	Description
total	Integer	Number of blocked locations in the geolocation access control rules
items	Array of objects	List of the blocked locations in the geolocation access control rules

Table 4-166 items

Parameter	Type	Description
id	String	Rule ID
geoip	String	Blocked locations in the geolocation access control rules
white	Integer	Protective action for the rule. You can configure Allow or Block action.
timestamp	Long	Time the rule was created

Status code: 400

Table 4-167 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-168 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-169 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions

Status Code	Description
500	Internal server error

Error Codes

See **Error Codes**.

4.2.15 Creating a Geolocation Access Control Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-170 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-171 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-172 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 4-173 Request body parameters

Parameter	Mandatory	Type	Description
geoip	No	String	Blocked locations in the geolocation access control rules
white	No	Integer	Protective action for the rule. The options are 0 and 1. 0: Block. 1: Allow.
description	No	String	Time the rule was created

Response Parameters

Status code: 200

Table 4-174 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
geoip	String	Blocked locations in the geolocation access control rules
white	Integer	Protective action for the rule. The options are 0 and 1. 0: Block. 1: Allow.
timestamp	Long	Time the rule was created

Status code: 400

Table 4-175 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-176 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-177 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.16 Updating a Geolocation Access Control Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-178 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	geoipRuleId

Table 4-179 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-180 Request header parameters

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

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

Table 4-181 Request body parameters

Parameter	Mandatory	Type	Description
geoip	Yes	String	Location
white	No	Integer	Protective action for the rule. The options are 0 and 1. 0: Allow. 1: Block.

Response Parameters

Status code: 200

Table 4-182 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
geoip	String	Blocked locations in the geolocation access control rules
white	Integer	Protective action for the rule. The options are 0 and 1. 0: Block. 1: Allow.

Status code: 400

Table 4-183 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-184 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-185 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.17 Deleting a Geolocation Access Control Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-186 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	geoipRuleId

Table 4-187 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-188 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 4-189 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
geoip	String	Blocked locations in the geolocation access control rules
white	Integer	Protective action for the rule. The options are 0 and 1. 0: Block. 1: Allow.
description	String	Description
timestamp	Long	Time stamp when the rule was created

Status code: 400

Table 4-190 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-191 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-192 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.18 Querying the List of Web Tamper Protection Rules

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-193 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-194 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number
pagesize	No	Integer	Number of records on each page

Request Parameters

Table 4-195 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 4-196 Response body parameters

Parameter	Type	Description
total	Integer	Number of the web tamper protection rules
items	Array of **AntiTamperRuleResponseBody** objects	Rule

Table 4-197 AntiTamperRuleResponseBody

Parameter	Type	Description
id	String	Rule ID

Parameter	Type	Description
hostname	String	Protected domain names for the web tamper protection rule
url	String	URLs for the web tamper protection rule
description	String	Time the rule was created

Status code: 400

Table 4-198 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-199 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-200 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.19 Creating a Web Tamper Protection Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-201 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.

Table 4-202 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-203 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 4-204 Request body parameters

Parameter	Mandatory	Type	Description
hostname	No	String	Protected website. Query the protected domain name list in cloud mode to obtain the protected domain name, which is in the hostname field in the response body.
url	No	String	URLs for the web tamper protection rule
description	No	String	Rule description

Response Parameters

Status code: 200

Table 4-205 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
hostname	String	Protected domain names for the web tamper protection rule
url	String	URLs for the web tamper protection rule
description	String	Time the rule was created
status	Integer	Rule status

Status code: 400

Table 4-206 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-207 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-208 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions

Status Code	Description
500	Internal server error

Error Codes

See **Error Codes**.

4.2.20 Deleting a Web Tamper Protection Rule

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-209 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
rule_id	Yes	String	antitamperRuleId

Table 4-210 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-211 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 4-212 Response body parameters

Parameter	Type	Description
id	String	Rule ID
policyid	String	Policy ID
url	String	URLs for the web tamper protection rule
timestamp	Long	Time the rule was created

Status code: 400

Table 4-213 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-214 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error code message

Status code: 500

Table 4-215 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.2.21 Changing the Status of a Rule

Function

This API is used to query details about sensitive information options.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-216 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
policy_id	Yes	String	Policy ID. It can be obtained by calling the API for querying the policy list.
ruletype	Yes	String	Policy type
rule_id	Yes	String	Rule ID. It can be obtained by calling a specific API for querying the lists of the corresponding type of rule.

Table 4-217 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-218 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 4-219 Request body parameters

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

Response Parameters

Status code: 400

Table 4-220 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-221 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-222 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

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**.

4.3 Certificate Management

4.3.1 Applying a Certificate to a Domain Name

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-223 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	Certificate ID

Table 4-224 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-225 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 4-226 Request body parameters

Parameter	Mandatory	Type	Description
cloud_host_ids	No	Array of strings	ID of the HTTPS domain name in cloud mode
premium_host_ids	No	Array of strings	ID of the HTTPS domain name in dedicated mode

Response Parameters

Status code: 200

Table 4-227 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
timestamp	Long	Time stamp
expire_time	Long	Expiration date
bind_host	Array of **CertificateBundingHostBody** objects	List of associated domain names

Table 4-228 CertificateBundingHostBody

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF mode. The options are cloud and premium.

Status code: 400

Table 4-229 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-230 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-231 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.3.2 Querying the List of Certificates

Function

This API is used to query the list of certificates.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/certificate

Table 4-232 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-233 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **1**
pagesize	No	Integer	Number of records on each page. Default: **10**

Parameter	Mandatory	Type	Description
name	No	String	Certificate name
host	No	Boolean	Whether to obtain the Domain name the certificate is applied to Default: **false**
exp_status	No	Integer	Certificate status. The options are 0, 1, and 2. 0: The certificate does not expire. 1: The certificate has expired. 2: The certificate is about to expire.

Request Parameters

Table 4-234 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 4-235 Response body parameters

Parameter	Type	Description
items	Array of **CertificateBody** objects	Certificate list
total	Integer	Number of certificates

Table 4-236 CertificateBody

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, in PEM format
key	String	Certificate private key (in PEM format)
expire_time	Long	Certificate expiration Time stamp
exp_status	Integer	Certificate status. The options are 0, 1, and 2. 0: The certificate does not expire. 1: The certificate has expired. 2: The certificate is about to expire.
timestamp	Long	Time the certificate was uploaded
bind_host	Array of **BindHost** objects	Domain name the certificate is applied to

Table 4-237 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-238 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-239 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-240 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.3.3 Creating a Certificate

Function

This API is used to create a certificate.

Debugging

You can use **API Explorer** to debug this API.

URI

POST /v1/{project_id}/waf/certificate

Table 4-241 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-242 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-243 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 4-244 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Certificate name
content	No	String	Certificate file, in PEM format
key	No	String	Certificate private key (in PEM format)

Response Parameters

Status code: 200

Table 4-245 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, in PEM format
key	String	Certificate private key (in PEM format)
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options are 0, 1, and 2. 0: The certificate does not expire. 1: The certificate has expired. 2: The certificate is about to expire.
timestamp	Long	Time the certificate was uploaded
bind_host	Array of **BindHost** objects	Domain name the certificate is applied to

Table 4-246 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-247 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-248 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-249 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{
  "name" : "test",
  "content" : "-----BEGIN CERTIFICATE-----
MIIDIjCCAougAwIBAgIJALV96mEtVF4EMA0GCSqGSIb3DQEBBQUAMGoxCzAJBgNVBAYTAnh4MQswCQYDVQ
QIEwJ4eDELMAkGA1UEBxMCeHgxCzAJBgNVBAoTAnh4MQswCQYDVQQLEwJ -----END CERTIFICATE-----",
  "key" : "-----BEGIN RSA PRIVATE KEY-----
MIICXQIBAAKBgQDFPN9ojPndxSC4E1pqWQVKGHCFlXAAGBOxbGfSzXqzsoyacotueqMqXQbxrPSQFATeVmhZ
PNVEMdvcAMjYsV/mymtAwVqVA6q/OFdX/b3UHO+b/VqLo3J5SrM -----END RSA PRIVATE KEY-----"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.3.4 Querying a Certificate

Function

This API is used to query a certificate.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-250 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	Certificate ID

Table 4-251 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-252 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 4-253 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
content	String	Certificate file, in PEM format
key	String	Certificate private key (in PEM format)
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options are 0, 1, and 2. 0: The certificate does not expire. 1: The certificate has expired. 2: The certificate is about to expire.
timestamp	Long	Time the certificate was uploaded
bind_host	Array of **BindHost** objects	Domain name the certificate is applied to

Table 4-254 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-255 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-256 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-257 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.3.5 Deleting a Certificate

Function

This API is used to delete a certificate.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-258 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	Certificate ID

Table 4-259 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-260 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 4-261 Response body parameters

Parameter	Type	Description
id	String	Certificate ID

Parameter	Type	Description
name	String	Certificate name
content	String	Certificate file, in PEM format
key	String	Certificate private key (in PEM format)
expire_time	Long	Certificate expiration timestamp
exp_status	Integer	Certificate status. The options are 0, 1, and 2. 0: The certificate does not expire. 1: The certificate has expired. 2: The certificate is about to expire.
timestamp	Long	Time the certificate was uploaded
bind_host	Array of **BindHost** objects	Domain name the certificate is applied to

Table 4-262 BindHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
waf_type	String	WAF edition for the domain name. The options are cloud and premium.
mode	String	(Dedicated mode only) Special domain name mode

Status code: 400

Table 4-263 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-264 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-265 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.3.6 Modifying a Certificate

Function

This API is used to modify a certificate.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-266 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
certificate_id	Yes	String	Certificate ID

Table 4-267 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-268 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 4-269 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Certificate name

Response Parameters

Status code: 200

Table 4-270 Response body parameters

Parameter	Type	Description
id	String	Certificate ID
name	String	Certificate name
expire_time	Long	Certificate expiration timestamp
timestamp	Long	Time stamp

Status code: 400

Table 4-271 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-272 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-273 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{
  "name" : "test_cert",
  "content" : "-----BEGIN CERTIFICATE-----
\nMIIDIjCCAougAwIBAgIJALV96mEtVF4EMA0GCSqGSIb3DQEBBQUAMGoxCzAJBgNVBAYTAnh4MQswCQYDV
QQIEwJ4eDELMAkGA1UEBxMCeHgxCzAJBgNVBAoTAnh4MQswCQYDVQQLEwJ\n-----END
CERTIFICATE-----",
```

```
 "key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIICXQIBAAKBgQDFPN9ojPndxSC4E1pqWQVKGHCFlXAAGBOxbGfSzXqzsoyacotueqMqXQbxrPSQFATeVmh
ZPNVEMdvcAMjYsV/mymtAwVqVA6q/OFdX/b3UHO+b/VqLo3J5SrM\n-----END RSA PRIVATE KEY-----"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.4 Event Management

4.4.1 This API is used to query the list of events.

Function

Querying the List of Events

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/event

Table 4-274 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-275 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
recent	Yes	String	Log query time range
hosts	No	Array	Domain name ID. It can be obtained from the protected website list.
page	No	Integer	Page number
pagesize	No	Integer	Number of records per page

Request Parameters

Table 4-276 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 4-277 Response body parameters

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

Table 4-278 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 XSS attacks: xss or sqli Command injection: cmdi Malicious crawlers: robot Local file inclusion: lfi Remote file inclusion: rfi Website Trojans: webshell CC attack: cc Precise protection: custom_custom IP address blacklist and whitelist: custom_whiteblackip Geolocation access control: custom_geoip Anti-tamper protection: antitamper Anti-crawler protection: anticrawler Data leakage prevention: leakage Illegal requests: illegal Other attack types: vuln
rule	String	ID of the matched rule
payload	String	Hit payload
action	String	Protective action
request_line	String	Request method and path
headers	**headers** object	Request header
cookie	String	Request cookie
status	String	Response code status
region	String	Region
host_id	String	Domain name ID
response_time	Long	Time to response
response_size	Integer	Response body size
response_body	String	Response body

Table 4-279 headers

Parameter	Type	Description
content-length	String	Request length
host	String	Domain name
content-type	String	Content type
user-agent	String	Proxy
accept	String	Type of the received content

Status code: 400

Table 4-280 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-281 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-282 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	ok
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.4.2 This API is used to query details of an event.

Function

Querying Details of an Event

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-283 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
eventid	Yes	String	Event ID

Table 4-284 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-285 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 4-286 Response body parameters

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

Table 4-287 ShowEventItems

Parameter	Type	Description
time	Long	Count
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
payload	String	Hit payload
action	String	Protective action
timestamp	Long	Timestamp

Status code: 400

Table 4-288 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-289 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-290 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	ok
400	Request failed
401	Insufficient token permissions

Status Code	Description
500	Internal server error

Error Codes

See **Error Codes**.

4.5 Protected Website Management in Dedicated Mode

4.5.1 Connecting a Domain Name to a Dedicated WAF Instance

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-291 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-292 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-293 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 4-294 Request body parameters

Parameter	Mandatory	Type	Description
certificateid	No	String	Certificate ID
certificatename	No	String	Certificate name
hostname	Yes	String	Domain name or IP address (or IP address with port)
proxy	No	Boolean	Whether a proxy is used
policyid	No	String	ID of the policy initially applied to the protected domain name
server	No	Array of **PremiumWafServer** objects	Configuration of retrieval server in dedicated mode

Table 4-295 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Client protocol
back_protocol	Yes	String	Server protocol
address	Yes	String	Server address
port	Yes	Integer	Server port
type	No	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Parameter	Mandatory	Type	Description
vpc_id	No	String	ID of the VPC where the dedicated WAF engine resides. The origin server and the dedicated WAF engine must be in the same subnet.

Response Parameters

Status code: 200

Table 4-296 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
policyid	String	Policy ID
hostname	String	Policy ID
domainid	String	Tenant ID
projectid	String	Project ID
protocol	String	HTTP protocol

Status code: 400

Table 4-297 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-298 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-299 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{
  "hostname" : "www.test.com",
  "server" : [ {
    "front_protocol" : "HTTP",
    "back_protocol" : "HTTP",
    "vpc_id" : "34e414f6-2407-456b-b61d-93d64e9e56f0",
    "type" : "ipv4",
    "address" : "1.1.1.1",
    "port" : 80
  } ],
  "proxy" : true
}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.5.2 Querying the List of Domain Names Connected to Dedicated WAF Instances

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-300 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-301 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	String	Page number Default: **1**
pagesize	No	String	Number of records on each page. Default: **10**
hostname	No	String	Domain name
policyname	No	String	Policy Name
protect_status	No	Integer	Protection status of the domain name

Request Parameters

Table 4-302 Request header parameters

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

Response Parameters

Status code: 200

Table 4-303 Response body parameters

Parameter	Type	Description
total	Integer	Number of all protected domain names
items	Array of **SimplePremiumWafHost** objects	Details about the protected domain name

Table 4-304 SimplePremiumWafHost

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
policyid	String	Policy ID
protect_status	Integer	Protection status
access_status	Integer	Access status
flag	Map<String,String>	Special identifier
mode	String	Dedicated engine identifier in special mode, for example, the ELB mode.
pool_ids	Array of strings	Dedicated engine group to which the domain name in special mode belongs

Status code: 400

Table 4-305 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-306 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-307 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.5.3 Modifying the Configuration of a Domain Name Connected to a Dedicated WAF Instance

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-308 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of a domain name connected to a dedicated WAF instance

Table 4-309 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-310 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 4-311 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used
certificateid	No	String	Certificate ID
certificatename	No	String	Certificate name
tls	No	String	Minimum TLS version
cipher	No	String	Cipher suite code

Response Parameters

Status code: 200

Table 4-312 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
policyid	String	Policy ID
hostname	String	Domain name connected to a cloud WAF instance
domainid	String	ID of the protected domain name
project_id	String	Project ID
access_code	String	CNAME prefix
protocol	String	HTTP protocol
server	Array of **PremiumWafServer** objects	Origin server details
certificateid	String	Certificate ID
certificatename	String	Certificate
tls	String	Minimum TLS version
cipher	String	Cipher suite code
proxy	Boolean	Whether the proxy is enabled
locked	Integer	Locked state Default: **0**
protect_status	Integer	Protection status

Parameter	Type	Description
access_status	Integer	Access status
timestamp	Long	Time the domain name was connected to WAF
block_page	**BlockPage** object	Alarm page
extend	Map<String,String>	Extensible attribute
traffic_mark	**TrafficMark** object	Traffic identifier (for known attack source rule only)
flag	Map<String,String>	Special domain name tag
mode	String	Special domain name for the dedicated mode (required in special mode, for example, the ELB mode)
pool_ids	Array of strings	ID of the group associated with the domain name (required only in special mode, for example, the ELB mode)

Table 4-313 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**
vpc_id	String	ID of the VPC where the dedicated WAF engine resides. The origin server and the dedicated WAF engine must be in the same subnet.

Table 4-314 BlockPage

Parameter	Type	Description
template	String	Template name

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

Table 4-315 CustomPage

Parameter	Type	Description
status_code	String	Returned status code
content_type	String	Page content type
content	String	Page content

Table 4-316 TrafficMark

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

Status code: 400

Table 4-317 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-318 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-319 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.5.4 Querying the Domain Name Configuration in Dedicated Mode

Function

This API is used to query the domain name configuration in dedicated mode.

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-320 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of a domain name connected to a dedicated WAF instance

Table 4-321 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-322 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).

Response Parameters

Status code: 200

Table 4-323 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
policyid	String	Policy ID
hostname	String	Domain name connected to a cloud WAF instance
domainid	String	ID of the protected domain name
project_id	String	Project ID
access_code	String	CNAME prefix
protocol	String	HTTP protocol

Parameter	Type	Description
server	Array of **PremiumWafServer** objects	Origin server details
certificateid	String	Certificate ID
certificatename	String	Certificate
tls	String	Minimum TLS version
cipher	String	Cipher suite code
proxy	Boolean	Whether the proxy is enabled
locked	Integer	Locked state Default: **0**
protect_status	Integer	Protection status
access_status	Integer	Access status
timestamp	Long	Time the domain name was connected to WAF
block_page	**BlockPage** object	Alarm page
extend	Map<String,String>	Extensible attribute
traffic_mark	**TrafficMark** object	Traffic identifier (for known attack source rule only)
flag	Map<String,String>	Special domain name tag
mode	String	Special domain name for the dedicated mode (required in special mode, for example, the ELB mode)
pool_ids	Array of strings	ID of the group associated with the domain name (required only in special mode, for example, the ELB mode)

Table 4-324 PremiumWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address

Parameter	Type	Description
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**
vpc_id	String	ID of the VPC where the dedicated WAF engine resides. The origin server and the dedicated WAF engine must be in the same subnet.

Table 4-325 BlockPage

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

Table 4-326 CustomPage

Parameter	Type	Description
status_code	String	Returned status code
content_type	String	Page content type
content	String	Page content

Table 4-327 TrafficMark

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

Status code: 400

Table 4-328 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-329 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-330 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.5.5 Deleting a Domain Name from a Dedicated WAF Instance

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-331 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of a domain name connected to a dedicated WAF instance

Table 4-332 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
keepPolicy	No	Boolean	Whether to retain the rules Default: **1**

Request Parameters

Table 4-333 Request header parameters

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

Response Parameters

Status code: 200

Table 4-334 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name
policyid	String	Policy ID
protect_status	Integer	Protection status
access_status	Integer	Access status
flag	Map<String,String>	Special identifier
mode	String	Dedicated engine identifier in special mode, for example, the ELB mode.
pool_ids	Array of strings	Dedicated engine group to which the domain name in special mode belongs

Status code: 400

Table 4-335 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-336 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-337 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.5.6 Modifying the Protection Status of a Domain Name Connected to a Dedicated WAF Instance

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-338 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	ID of a domain name connected to a dedicated WAF instance

Table 4-339 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-340 Request header parameters

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

Table 4-341 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	No	Integer	Protection status

Response Parameters

Status code: 200

Table 4-342 Response body parameters

Parameter	Type	Description
protect_status	Integer	Protection status

Status code: 400

Table 4-343 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-344 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-345 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Invalid request
401	Unauthorized token
500	Internal server error

Error Codes

See **Error Codes**.

4.6 Dashboard

4.6.1 Querying Statistics on WAF Dashboard

Function

Querying Statistics on WAF Dashboard

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/overviews/statistics

Table 4-346 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-347 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
from	Yes	Long	Start time
to	Yes	Long	End time
hosts	No	String	List of the domain names to query
instances	No	String	List of instances to query

Request Parameters

Table 4-348 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 4-349 Response body parameters

Parameter	Type	Description
[items]	Array of **CountItem** objects	Security statistics

Table 4-350 CountItem

Parameter	Type	Description
key	String	Type
num	Integer	Quantity

Status code: 400

Table 4-351 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-352 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-353 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

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

Error Codes

See **Error Codes**.

4.6.2 Querying the QPS Statistics

Function

Querying the QPS Statistics

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/overviews/qps/timeline

Table 4-354 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-355 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
from	Yes	Long	Start time, which is a 13-digit timestamp in millisecond
to	Yes	Long	End time, which is a 13-digit timestamp in millisecond
hosts	No	String	Domain name ID, which can be obtained by calling the ListHost API
instances	No	String	ID of the dedicated WAF instance. This parameter is required only in instantiation mode.
group_by	No	String	Display dimension. For example, the value is DAY if data is displayed by the day.

Request Parameters

Table 4-356 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 4-357 Response body parameters

Parameter	Type	Description
[items]	Array of **StatisticsTimelineItem** objects	Timeline of security statistics

Table 4-358 StatisticsTimelineItem

Parameter	Type	Description
key	String	Key value
timeline	Array of **TimeLineItem** objects	Timeline corresponding to the key value

Table 4-359 TimeLineItem

Parameter	Type	Description
time	Long	Time
num	Integer	Quantity

Status code: 400

Table 4-360 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-361 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-362 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.6.3 Querying Website Bandwidth Usage Statistics

Function

This API is used to query the website bandwidth usage statistics.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/overviews/bandwidth/timeline

Table 4-363 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-364 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
from	Yes	Long	Start time, which is a 13-digit timestamp in millisecond
to	Yes	Long	End time, which is a 13-digit timestamp in millisecond
hosts	No	String	List of domain names to query, which can be obtained by calling the ListHost API
instances	No	String	List of instance to query (only for the instantiation mode).
group_by	No	String	Display dimension. For example, the value is DAY if data is displayed by the day.

Request Parameters

Table 4-365 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 4-366 Response body parameters

Parameter	Type	Description
[items]	Array of **StatisticsTimelineItem** objects	Timeline of security statistics

Table 4-367 StatisticsTimelineItem

Parameter	Type	Description
key	String	Key value
timeline	Array of **TimeLineItem** objects	Timeline corresponding to the key value

Table 4-368 TimeLineItem

Parameter	Type	Description
time	Long	Time
num	Integer	Quantity

Status code: 400

Table 4-369 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-370 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-371 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.6.4 Querying Response Code Statistics

Function

This API is used to query response code statistics.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/overviews/response-code/timeline

Table 4-372 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-373 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
from	Yes	Long	Start time
to	Yes	Long	End time
hosts	No	String	List of domain names to query, which can be obtained by calling the ListHost API
instances	No	String	List of instances to query
response_source	No	String	Response source
group_by	No	String	Display dimension. For example, the value is DAY if data is displayed by the day.

Request Parameters

Table 4-374 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 4-375 Response body parameters

Parameter	Type	Description
[items]	Array of **StatisticsTimelineItem** objects	Timeline of security statistics

Table 4-376 StatisticsTimelineItem

Parameter	Type	Description
key	String	Key value
timeline	Array of **TimeLineItem** objects	Timeline corresponding to the key value

Table 4-377 TimeLineItem

Parameter	Type	Description
time	Long	Time
num	Integer	Quantity

Status code: 400

Table 4-378 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-379 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-380 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.6.5 Querying the Number of Abnormal Requests

Function

This API is used to query the number of abnormal requests.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/overviews/abnormal

Table 4-381 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-382 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
from	Yes	Long	Start time, which is a 13-digit timestamp
to	Yes	Long	End time, which is a 13-digit timestamp
top	No	Integer	The first several results to query
code	No	Integer	Status Code
hosts	No	String	List of domain names to query, which can be obtained by calling the ListHost API
instances	No	String	List of instance to query (only for the dedicated mode).

Request Parameters

Table 4-383 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 4-384 Response body parameters

Parameter	Type	Description
total	Integer	Attack type
items	Array of **UrlCountItem** objects	Details of CountItem

Table 4-385 UrlCountItem

Parameter	Type	Description
key	String	Attack type
num	Integer	Quantity
host	String	Domain name

Status code: 400

Table 4-386 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-387 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-388 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.7 Querying the Protected Domain Names

4.7.1 Querying the List of Protection Domain Names

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-389 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-390 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	page Default: **1**
pagesize	No	Integer	Number of records on each page. Default: **10**
hostname	No	String	Domain name
policyname	No	String	Policy name
protect_status	No	Integer	Protection status of the domain name
waf_type	No	String	WAF mode for the domain name
is_https	No	Boolean	Whether HTTPS is used for the domain name

Request Parameters

Table 4-391 Request header parameters

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

Response Parameters

Status code: 200

Table 4-392 Response body parameters

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

Table 4-393 CompositeHostResponse

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
paid_type	String	Billing mode
flag	**HostFlag** object	Domain name configuration
waf_type	String	WAF mode of the domain name

Table 4-394 HostFlag

Parameter	Type	Description
pci_dss	String	true/false

Parameter	Type	Description
pci_3ds	String	true/false
cname	String	old/new
is_dual_az	String	true/false
ipv6	String	true/false

Status code: 400

Table 4-395 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-396 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-397 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.7.2 Querying a Protected Domain Name by ID

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-398 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
host_id	Yes	String	Domain name ID

Table 4-399 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-400 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 4-401 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
paid_type	String	Billing mode
flag	**HostFlag** object	Domain name configuration
waf_type	String	WAF mode of the domain name

Table 4-402 HostFlag

Parameter	Type	Description
pci_dss	String	true/false

Parameter	Type	Description
pci_3ds	String	true/false
cname	String	old/new
is_dual_az	String	true/false
ipv6	String	true/false

Status code: 400

Table 4-403 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-404 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-405 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Request failed
401	Insufficient token permissions
500	Internal server error

Error Codes

See **Error Codes**.

4.8 Querying Features Available in a Site

4.8.1 Querying Features Available in a Site

Function

This API is used to query features available for a certain site.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/config/console

Table 4-406 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Request Parameters

Table 4-407 Request header parameters

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

Response Parameters

Status code: 200

Table 4-408 Response body parameters

Parameter	Type	Description
eps	Boolean	Support for EPS
tls	Boolean	Support for TLS
ipv6	Boolean	Support for IPv6
alert	Boolean	Support for alarms
custom	Boolean	Support for precise protection
elb_mode	Boolean	Support for load-balancing WAF instances
event_lts	Boolean	Support for LTS for WAF logging
multi_dns	Boolean	Support for multi-DNS resolution
search_ip	Boolean	Support for searching for IP addresses
cc_enhance	Boolean	Support for CC attack protection enhancement
cname_switch	Boolean	Support for CNAME record switchover
custom_block	Boolean	Support for precise block
advanced_ignore	Boolean	Support for false alarm masking
js_crawler_enable	Boolean	Support for JavaScript anti-crawler
deep_decode_enable	Boolean	Support for in-depth parsing

Parameter	Type	Description
overview_bandwidth	Boolean	Support for bandwidth statistics
proxy_use_oldcname	Boolean	Support for DNS resolution with the old CNAME record
check_all_headers_enable	Boolean	Support for inspection of all headers

Status code: 400

Table 4-409 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-410 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-411 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.9 Managing Websites Protected by Cloud WAF

4.9.1 Querying Domain Names Protected by Cloud WAF

Function

This API is used to query domain names protected by cloud WAF.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/instance

Table 4-412 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-413 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
page	No	Integer	Page number Default: **1**
pagesize	No	Integer	Number of records on each page Default: **10**
hostname	No	String	Domain name
policyname	No	String	Policy name

Request Parameters

Table 4-414 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 4-415 Response body parameters

Parameter	Type	Description
total	Integer	Number of domain names protected with the cloud WAF instance
items	Array of **CloudWafHostResponseBody** objects	Details about the protected domain name

Table 4-416 CloudWafHostResponseBody

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
protocol	String	Returned client protocol type
certificateid	String	Certificate ID
certificatename	String	Certificate name
server	Array of **CloudWafServer** objects	Origin server details
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
exclusive_ip	Boolean	Whether a dedicated IP address is used

Table 4-417 CloudWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Status code: 400

Table 4-418 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-419 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-420 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.9.2 Adding a Domain Name to Cloud WAF

Function

This API is used to add a domain name to cloud WAF.

Debugging

You can use **API Explorer** to debug this API.

URI

POST /v1/{project_id}/waf/instance

Table 4-421 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-422 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-423 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 4-424 Request body parameters

Parameter	Mandatory	Type	Description
hostname	No	String	Domain name
policyid	No	String	ID of the policy initially applied to the protected domain name
server	No	Array of **CloudWafServer** objects	Origin server details
certificateid	No	String	Certificate ID
certificatename	No	String	Certificate name
proxy	No	Boolean	Whether a proxy is used
description	No	String	Domain name description

Table 4-425 CloudWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Client protocol
back_protocol	Yes	String	Server protocol
address	Yes	String	Server address
port	Yes	Integer	Server port
type	No	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Response Parameters

Status code: 200

Table 4-426 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance

Parameter	Type	Description
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
protocol	String	Returned client protocol type
certificateid	String	Certificate ID
certificatename	String	Certificate name
server	Array of **CloudWafServer** objects	Origin server details
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
exclusive_ip	Boolean	Whether a dedicated IP address is used

Table 4-427 CloudWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Status code: 400

Table 4-428 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-429 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-430 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.9.3 Modifying the Protection Status for a Domain Name

Function

This API is used to obtain the domain name route information.

Debugging

You can use **API Explorer** to debug this API.

URI

PUT /v1/{project_id}/waf/instance/{instance_id}/protect-status

Table 4-431 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
instance_id	Yes	String	Domain name ID, which can be obtained by querying the domain names protected by cloud WAF.

Table 4-432 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-433 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 4-434 Request body parameters

Parameter	Mandatory	Type	Description
protect_status	No	Integer	Protection status. The options are -1, 0, and 1. -1: Bypassed. 0: Suspended. 1: Enabled.

Response Parameters

Status code: 400

Table 4-435 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-436 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-437 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{
  "protect_status" : 0
}
```

Example Responses

None

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**.

4.9.4 Obtaining Domain Name Route Information in Cloud Mode

Function

This API is used to obtain the domain name route information.

Debugging

You can use **API Explorer** to debug this API.

URI

GET /v1/{project_id}/waf/instance/{instance_id}/route

Table 4-438 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
instance_id	Yes	String	Domain name ID

Table 4-439 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-440 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 4-441 Response body parameters

Parameter	Type	Description
total	Integer	Quantity
items	Array of **RouteBody** objects	Route information body

Table 4-442 RouteBody

Parameter	Type	Description
name	String	Name
servers	Array of **RouteServerBody** objects	Route information

Table 4-443 RouteServerBody

Parameter	Type	Description
back_protocol	String	Protocol
address	String	IP address
port	Integer	Port

Status code: 400

Table 4-444 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-445 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-446 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

Example Responses

None

Status Codes

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

Status Code	Description
500	Internal server error.

Error Codes

See **Error Codes**.

4.9.5 Querying a Domain Name Protected by Cloud WAF by ID

Function

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

Debugging

You can use **API Explorer** to debug this API.

URI

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

Table 4-447 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
instance_id	Yes	String	Domain name ID

Table 4-448 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-449 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 4-450 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
protocol	String	Returned client protocol type
certificateid	String	Certificate ID
certificatename	String	Certificate name
server	Array of **CloudWafServer** objects	Origin server details
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
exclusive_ip	Boolean	Whether a dedicated IP address is used

Table 4-451 CloudWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Status code: 400

Table 4-452 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-453 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-454 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

4.9.6 Updating a Domain Name Protected by Cloud WAF

Function

This API is used to update a domain name protected by cloud WAF.

Debugging

You can use **API Explorer** to debug this API.

URI

PATCH /v1/{project_id}/waf/instance/{instance_id}

Table 4-455 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
instance_id	Yes	String	Domain name ID

Table 4-456 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-457 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 4-458 Request body parameters

Parameter	Mandatory	Type	Description
proxy	No	Boolean	Whether a proxy is used
certificateid	No	String	Certificate ID
certificatename	No	String	Certificate name
server	No	Array of **PremiumWafServer** objects	Configuration of retrieval server in dedicated mode
tls	No	String	Minimum TLS version. The options are TLS v1.0, TLS v1.1, and TLS v1.2.
cipher	No	String	Cipher suite code. The options are cipher_default, cipher_1, and cipher_2.

Table 4-459 PremiumWafServer

Parameter	Mandatory	Type	Description
front_protocol	Yes	String	Client protocol
back_protocol	Yes	String	Server protocol
address	Yes	String	Server address
port	Yes	Integer	Server port

Parameter	Mandatory	Type	Description
type	No	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**
vpc_id	No	String	ID of the VPC where the dedicated WAF engine resides. The origin server and the dedicated WAF engine must be in the same subnet.

Response Parameters

Status code: 200

Table 4-460 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
protocol	String	Returned client protocol type
certificateid	String	Certificate ID
certificatename	String	Certificate name
server	Array of **CloudWafServer** objects	Origin server details
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
exclusive_ip	Boolean	Whether a dedicated IP address is used

Table 4-461 CloudWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Status code: 400

Table 4-462 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-463 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-464 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

```
{}
```

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**.

4.9.7 Removing a Domain Name from Cloud WAF

Function

This API is used to remove a domain name from cloud WAF.

Debugging

You can use **API Explorer** to debug this API.

URI

DELETE /v1/{project_id}/waf/instance/{instance_id}

Table 4-465 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
instance_id	Yes	String	Domain name ID

Table 4-466 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID

Request Parameters

Table 4-467 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 4-468 Response body parameters

Parameter	Type	Description
id	String	Domain name ID
hostname	String	Domain name connected to a cloud WAF instance
policyid	String	Policy ID
access_code	String	CNAME prefix
protect_status	Integer	Protection status
access_status	Integer	Access status
protocol	String	Returned client protocol type
certificateid	String	Certificate ID
certificatename	String	Certificate name
server	Array of **CloudWafServer** objects	Origin server details
proxy	Boolean	Whether the proxy is enabled
timestamp	Long	Time the domain name was connected to WAF
exclusive_ip	Boolean	Whether a dedicated IP address is used

Table 4-469 CloudWafServer

Parameter	Type	Description
front_protocol	String	Client protocol
back_protocol	String	Server protocol
address	String	Server address
port	Integer	Server port
type	String	Origin server IP address format. The options are IPv 4 and IPv6. Default: **ipv4**

Status code: 400

Table 4-470 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 401

Table 4-471 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Status code: 500

Table 4-472 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error code message

Example Requests

None

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**.

A Appendix

A.1 Status Code

- Normal

Returned Value	Description
200	The request is successfully processed.

- Abnormal

Status Code	Status	Description
400	Bad Request	The server fails to process the request.
401	Unauthorized	The requested page requires a username and a password.
403	Forbidden	Access to the requested page is denied.
404	Not Found	The server fails to find the requested page.
405	Method Not Allowed	Method specified in the request is not allowed.
406	Not Acceptable	Response generated by the server is not acceptable to the client.
407	Proxy Authentication Required	Proxy authentication is required before the request is processed.
408	Request Timeout	A timeout error occurs because the request is not processed within the specified waiting period of the server.

Status Code	Status	Description
409	Conflict	The request cannot be processed due to a conflict.
500	Internal Server Error	The request is not processed due to a server error.
501	Not Implemented	The request is not processed because the server does not support the requested function.
502	Bad Gateway	The request is not processed, and the server receives an invalid response from the upstream server.
503	Service Unavailable	The request is not processed due to a temporary system abnormality.
504	Gateway Timeout	A gateway timeout error occurs.

A.2 Error Codes

If an error code starting with APIGW is returned after you call an API, rectify the fault by referring to the instructions provided in **API Gateway Error Codes**.

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00011001	bad.request	Bad request	Check param
400	WAF.00011002	url.param.illegal	The URL format is incorrect	Check URL format
400	WAF.00011003	request.body.illegal	Request body format error: missing parameter and illegal value in body	Check request body
400	WAF.00011004	id.illegal	Illegal ID	Check ID
400	WAF.00011005	name.illegal	Illegal name	Check name
400	WAF.00011006	host.illegal	Illegal domain name	Check domain name

Status Code	Error Codes	Error Message	Description	Solution
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
400	WAF.00011014	website.not.register	The website has not been put on record	Filing website

Status Code	Error Codes	Error Message	Description	Solution
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
400	WAF.00013004	protocol.not.support	Protocol not supported	Through ELB conversion protocol

Status Code	Error Codes	Error Message	Description	Solution
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.protect.failed	Failed to open protection	Check domain name protection status
400	WAF.00014004	access.failed	Failed to access WAF	Modify DNS resolution
400	WAF.00014005	bypass.failed	Bypasswaf failed	Check the protection status and try again
400	WAF.00014006	proxy.config.error	Agent configuration error	Reconfigure the agent correctly and try again
400	WAF.00014007	host.conflict	Domain name conflict	Check that the domain name already exists in the website configuration
400	WAF.00014008	cert.inconsistent	The same domain name, but the certificate is inconsistent	Use the same certificate
400	WAF.00014009	api.not.found	The interface does not exist	Check interface URL
400	WAF.00014010	port.protocol.mismatch	Port and protocol mismatch	Select the matching protocol and port

Status Code	Error Codes	Error Message	Description	Solution
400	WAF.00014011	host.blacklist	It is forbidden to add the protection website, and the domain name is blacklisted	
400	WAF.00014012	insufficient.tenant.quota	Insufficient tenant quota	Purchase quota upgrade package
400	WAF.00014013	exclusive.ip.config.error	Exclusive IP configuration error	Check exclusive IP configuration
400	WAF.00014014	exclusive.ip.config.error	exclusive.ip.config.error	Check exclusive IP configuration
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

A.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to **query project information based on the specified criteria**.

The API used to obtain a project ID is GET https://{Endpoint}/v3/projects. **{Endpoint}** is the IAM endpoint and can be obtained from **Regions and Endpoints**. For details about API authentication, see **Authentication**.

In the following example, **id** indicates the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
```

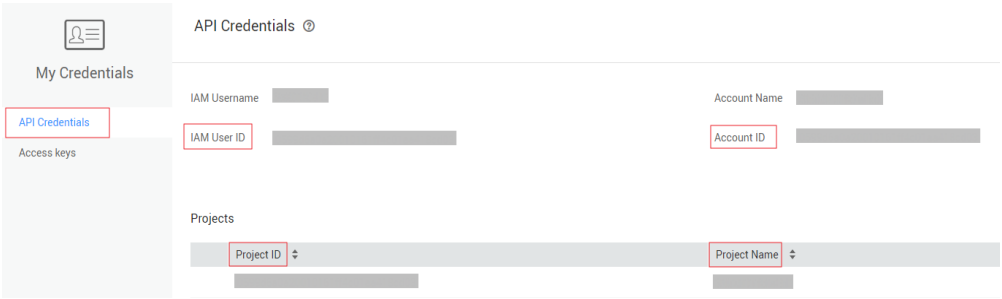
```
            "name": "xxxxxxxx",
            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```


Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Click the username and choose **Basic Information** from the drop-down list.
3. On the **Account Info** page, click **Manage** next to **Security Credentials**.
   On the **API Credentials** page, view project IDs in the project list.

Figure A-1 Viewing project IDs



B Change History

Released On	Description
2021-11-24	This issue is the sixth official release. Optimized the parameter description in section "API."
2021-10-19	This issue is the fifth official release. Updated the content of the API for rule management.
2021-08-25	This issue is the fourth official release. Updated the content of the domain name API in cloud mode.
2021-07-27	This issue is the third official release. Updated APIs.
2021-07-08	This issue is the second official issue. Optimized parameter descriptions of some APIs.
2021-06-18	This is the first official release.

