

REST API Request and Response Types

<https://campus.barracuda.com/doc/96011760/>

REST API includes the following request and response types:

Simple Request

In a standard POST or PUT API request, the parameters are passed in a string with a key:value pair. For example, a request for adding a service would be:

```
curl http://10.36.73.160:8000/restapi/v3.2/services -X POST -H Content-Type:application/json -u 'eyJldCI6IjlmFkbWluln0=\n:' -d
```

```
{
  "name": "demo_service_3",
  "ip_address": "10.11.16.176",
  "port": "80",
  "type": "http",
  "address_version": "ipv4",
  "vsite": "demo_vsite",
  "group": "demo_vsite_group"
}
```

Fetching data using the group filter

A query parameter called “groups” can be included with REST API GET requests to filter the response to a specific configuration group. The available values for the group parameter for each of the API objects can be found in the GET request documentation for that object.

For example, the available values that can be passed to the groups parameter for the “services” API are provided in the screenshot below:

GET /services
 FETCH Information of Service

Parameters Generate Example

| Name | Description |
|---|--|
| Authorization * required string (header) | Login token <input type="text" value="Authorization - Login token"/> |
| groups array (query) | Available values : Website Profile, URL Optimizer, URL ACLs, IP Reputation, URL Profile, HTTP Request Rewrite, Parameter Optimizer, URL Translation, WaaS Provisioning Info, Provisioning Info, SSL Security, Supply Chain, XML Protected URL, Adaptive Profiling, Rule Group, SSL OCSP, Instant SSL, FTP, Comment Spam, SSL CRL, SSL Client Authentication, Referer Spam, HTTP Response Rewrite, Web Socket Policy, Access Rule, Service, Form Spam, JSON Profile, WaaS Account Details, Compression, Advanced Configuration, Adaptive Profiling Rule, Session Tracking, Caching, Load Balancing, Captcha Settings, DDoS Policy, Slow Client Attack Prevention, Mask Sensitive Data, Server, Secure Browsing, Exception Profiling, Response Body Rewrite, Clickjacking, Domain Info, Basic Security, URL Encryption, Allow or Deny Client, URL Policy, Authentication, Authorization Policy, Advanced Client Analysis, Header ACL |

Following is an example of a GET request to fetch all the services from the Barracuda WAF with the response filtered to only include the URL ACLs information:

Example:

```
curl -X GET "http://<WAF-IP/WAF-Domain>:8000/restapi/v3.2/services?groups=URL ACLs" -H
"Content-Type: application/json" -u "token:"
```

Fetching data using the category filter

A query parameter called “category” with the value set to “operational” can be included with REST API GET requests to filter the response to the operational status of the API object.

Fetching data using the limit and offset filters

These filters are mostly used with the logging API objects such as /web-firewall-logs, /audit-logs, /access-logs and /system-logs

By default, the API response for any of the log type objects will have 20 logs. More logs can be fetched using the Pagination(limit & offset) support.

```
curl -X POST http://10.36.73.160:8000/restapi/v3.2/logs/web-firewall-logs?limit=20&offset=40 -u
"eyJldNkNjQzNjZiOGUxNDQ2OTM4ZjRkIn0=\n:"
```

Fetching data using the parameter filter

A query parameter called "parameters" can be included with REST API GET requests to filter the response to the specified parameters.

```
curl -X GET "http://10.36.73.160:8000/restapi/v3.2/services?parameters=app-id" -H "Content-type: application/json" -u "eyJldCZnZiOGUxNDQ2OTM4ZjRkIn0=\n:"
```

Response Types

The following table lists the different response codes :

| Response Code | Description |
|---------------|--|
| 200 | Response code indicating a successful operation. |
| 201 | Indicates that the resource is successfully created. |
| 202 | Indicates that the update is successful. |
| 400 | Indicates an invalid request. For example, a POST request with out the JSON payload. |
| 401 | Indicates an authentication-related problem. |
| 404 | Indicates a resource-not-found error. |
| 405 | Indicates a method-not-allowed error. |
| 406 | Indicates an invalid format/Unacceptable data. |
| 415 | Indicates an invalid content type |
| 500 | Indicates an internal-server error. |
| 502 | Indicates a bad gateway error. |
| 503 | Indicates that the service is unreachable. |

Next Step:

Continue with [REST API Examples](#).

Figures

1. GET.png

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