

## Global ACLs

<https://campus.barracuda.com/doc/45026325/>

Global ACLs define strict access control (allow/deny) rules for all the services configured on the Barracuda Web Application Firewall.

### To Create a Global ACL Rule

<b>URL:</b> /v1/security_policies/{policy_id}/global_acls			
<b>Method:</b> POST			
<b>Description:</b> Adds a global ACL rule with the given values.			
Parameter Name	Data Type	Mandatory	Description
<b>Input Parameters:</b>			
name	Alphanumeric	Yes	A name for the URL ACL rule.
url_match	Alphanumeric		The URL to be matched to the URL in the request. The URL should start with a "/" and can have at most one "*" anywhere in the URL. A value of "/"* means that the access control rule (ACL) applies for all URLs in that domain.
extended_match	String	Yes	An expression that consists of a combination of HTTP headers and/or query string parameters. Updating extended match parameters value is shown in the example below. See <i>Example 2</i> .  For information on how to write extended match expressions, refer to <a href="#">Extended Match Syntax Help</a> .
extended_match_sequence	Numeric	Yes	A number to indicate the order in which the extended match rule must be evaluated in the requests.
action	Enumeration	Optional	The action to be taken on the request matching this URL. The enumerated values include: <ul style="list-style-type: none"> <li>• process</li> <li>• allow</li> <li>• deny_and_log</li> <li>• deny_with_no_log</li> <li>• temporary_redirect</li> <li>• permanent_redirect</li> </ul>

deny_response	Enumeration	Conditional	<p>The response to be sent to the client if the request is denied. The enumerated values include:</p> <ul style="list-style-type: none"> <li>• reset</li> <li>• response_page</li> <li>• temporary_redirect</li> <li>• permanent_redirect</li> </ul> <p><b>Note:</b> Required ONLY when <b>action</b> is set to <i>deny_and_log</i> or <i>deny_with_no_log</i>.</p>
response_page	Enumeration	Conditional	<p>The response page to be sent to the client. The enumerated values include:</p> <ul style="list-style-type: none"> <li>• default</li> <li>• default-virus</li> <li>• default-error-resp</li> <li>• default-captcha-tries-error-page</li> <li>• default-captcha-sessions-error-page</li> <li>• default-suspected-activity-error-page</li> <li>• default-captcha-response-page</li> </ul> <p><b>Note:</b> Required ONLY when <b>action</b> is set to <i>deny_and_log</i> or <i>deny_with_no_log</i>.</p>
redirect_url	Alphanumeric	Conditional	<p>A URL to which a user should be redirected.</p> <p><b>Note:</b> Required ONLY when <b>action</b> is <i>temporary_redirect</i> or <i>permanent_redirect</i>.</p>
comments	Alphanumeric	Optional	Description about the global ACL rule.
follow_up_action	Enumeration	Yes	<p>The required follow up action to be taken whenever the request is denied. The enumerated values include:</p> <ul style="list-style-type: none"> <li>• block_client_ip</li> <li>• challenge_with_captcha</li> <li>• none</li> </ul> <p><b>Note:</b> The default value is "<b>none</b>".</p>
follow_up_action_time	Numeric	Yes	<p>Sets the time (sec) to block the client IP if Follow Up Action is set to Block Client-IP. The time can range between 1 to 600000 seconds.</p> <p><b>Note:</b> The default time range set is 60 seconds.</p>

**Example 1:****Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls -u 'eyJldCI6IjEzODAxNTEyOTliLCJwYXNzd29yZCI6IjY4YzM1YzVhYzlwYTEzMjg4OWNIYTRhMGUz\nZTQ'
```

```
2NjZkliwidXNlciI6ImFkbWluln0=\n:' -X POST -H Content-Type:application/json -d
'{"name":"acl_1","redirect_url":"/index.html","extended_match_sequence":"3"}'
```

**Response:**

```
{"id":"acl_1","token":"eyJldCI6IjEzODAxNTE3MTUuLCJwYXNzd29yZCI6IjY4YzY4MGUyNzQxNGEzOGZlZjU0\nN2RjYTIwIiwidCI6ImFkbWluln0=\n"}'
```

**Example 2:****Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls -u
'eyJldCI6IjEzODAxNTEyOTliLCJwYXNzd29yZCI6IjY4YzY4MGUyNzQxNGEzOGZlZjU0\nZTQ2NjZkliwidXNlciI6ImFkbWluln0=\n:' -X POST -H Content-Type:application/json -d
'{"name":"acl_1","url_match":"/test.html","extended_match":"(Method eq GET)&&(HTTP-Version eq HTTP/1.1)||(Header User-Agent eq mozilla)","extended_match_sequence":"1","action":"deny_and_log","deny_response":"response_page","response_page":"default","comments":"This is acl_1 url acl"}'
```

**Response:**

```
{"id":"acl_1","token":"eyJldCI6IjEzODAxNTEyOTliLCJwYXNzd29yZCI6IjY4YzY4MGUyNzQxOWNIYTRhMGUz\nZTQ2NjZkliwidXNlciI6ImFkbWluln0=\n"}'
```

**To Retrieve Global ACL Rules**

<b>URL:</b> /v1/security_policies/{policy_id}/global_acls /v1/security_policies/{policy_id}/global_acls/{global_acl_id}			
<b>Method:</b> GET			
<b>Description:</b> Lists all global ACL rules if "global_acl_id" is not specified.			
Parameter Name	Data Type	Mandatory	Description
<b>Input Parameters:</b>			
parameters	Alphanumeric	Optional	Any specific parameter name that needs to be retrieved. See <i>Example 2</i> .

**Example 1:**

**Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls/acl_1 -u 'eyJldCI6IjEzODAxNTEyOTliLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjg0OWNiYTRhMGUz\nZTQ2NjZkliwidXNlciI6ImFkbWluln0=\n:' -X GET
```

**Response:**

```
{"extended_match_sequence": "3", "name": "acl_1", "comments": "", "extended_match": "*", "url_match": "/*", "action": "process", "redirect_url": "/index.html", "id": "acl_1", "token": "eyJldCI6IjEzODAxNTEyOTliLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjg0OWNiYTRhMGUz\nZTQ2NjZkliwidXNlciI6ImFkbWluln0=\n"}
```

**Example 2:**

**Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls/acl_1 -u 'eyJldCI6IjE1MDE5MDUxMzkiLCJwYXNzd29yZCI6IjUwN2I1ZDRhMTc3Mzc4Zjc5NGY2ZmM3NTNh\nYTczM2IxliwidXNlciI6ImFkbWluln0=\n:' -X GET -G -d parameters=action,deny_response,enable_url_acl,name
```

**Response:**

```
{"name": "acl_1", "enable_url_acl": "yes", "action": "process", "deny_response": "response_page", "id": "acl_1", "token": "eyJldCI6IjE1MDQzMjc3MTc3Mzc4Zjc5NGY2ZmM3NTNh\nYTczM2IxliwidXNlciI6ImFkbWluln0=\n"}
```

**To Update a Global ACL Rule**

<b>URL:</b> /v1/security_policies/{policy_id}/global_acls/{global_acl_id}			
<b>Method:</b> PUT			
<b>Description:</b> Updates the values of given parameters in the given global ACL rule.			
Parameter Name	Data Type	Mandatory	Description
<b>Input Parameters:</b>			

enable_url_acl	String	Optional	Enforce this URL ACL rule for all the Services configured on the Barracuda Web Application Firewall or not. The values include: <ul style="list-style-type: none"> <li>• yes</li> <li>• no</li> </ul>
url_match	Alphanumeric	Optional	The URL to be matched to the URL in the request. The URL should start with a "/" and can have at most one "*" anywhere in the URL. A value of "/"* means that the access control rule (ACL) applies for all URLs in that domain.
extended_match	String	Optional	An expression that consists of a combination of HTTP headers and/or query string parameters. Updating extended match parameters value is shown in the example below. See Example 2.  For information on how to write extended match expressions, refer <a href="http://techlib.barracuda.com/x/ExtendedMatchSyntax">http://techlib.barracuda.com/x/ExtendedMatchSyntax</a> .
extended_match_sequence	Numeric	Optional	A number to indicate the order in which the extended match rule must be evaluated in the requests.
action	Enumeration	Optional	The action to be taken on the request matching this URL. The enumerated values include: <ul style="list-style-type: none"> <li>• process</li> <li>• allow</li> <li>• deny_and_log</li> <li>• deny_with_no_log</li> <li>• temporary_redirect</li> <li>• permanent_redirect</li> </ul>
deny_response	Enumeration	Conditional	The response to be sent to the client if the request is denied. The enumerated values include: <ul style="list-style-type: none"> <li>• reset</li> <li>• response_page</li> <li>• temporary_redirect</li> <li>• permanent_redirect</li> </ul> <p><b>Note:</b> Required ONLY when <b>action</b> is set to <i>deny_and_log</i> or <i>deny_with_no_log</i>.</p>
response_page	Enumeration	Conditional	The response page to be sent to the client. The enumerated values include predefined response pages and custom response pages (if any): <ul style="list-style-type: none"> <li>• default</li> <li>• default-virus</li> <li>• default-error-resp</li> <li>• default-captcha-tries-error-page</li> <li>• default-captcha-sessions-error-page</li> <li>• default-suspected-activity-error-page</li> <li>• default-captcha-response-page</li> </ul> <p><b>Note:</b> Required ONLY when <b>deny_response</b> is set to <i>response_page</i>.</p>
redirect_url	Alphanumeric	Optional	A URL to which a user should be redirected if <b>action</b> is <i>temporary_redirect</i> or <i>permanent_redirect</i> .

comments	Alphanumeric	Optional	Description about the global ACL rule.
follow_up_action	Enumeration	Yes	The required follow up action to be taken whenever the request is denied. The enumerated values include: <ul style="list-style-type: none"> <li>• Block Client-IP</li> <li>• Challenge_with_Captcha</li> <li>• None</li> </ul> <b>Note:</b> The default value is <b>None</b> .
follow_up_action_time	Numeric	Yes	Sets the time (sec) to block the client IP if Follow Up Action is set to Block Client-IP. The time can range between 1 to 600000 seconds. <b>Note:</b> The default time range set is 60 seconds.

**Example 1:****Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls/acl_1 -u
'eyJldCI6IjEzODAxNTEyOTIiLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjgxOWNIYTRhMGUz\nZTQ
2NjZkliwidXNlci6ImFkbWluln0=\n:' -X PUT -H Content-Type:application/json -d
'{"action":"deny_with_no_log"}
```

**Response:**

```
{"id":"acl_1","token":"eyJldCI6IjEzODAxNTU5OTYiLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjgxOWNIYTRhMGUz\nZTQ
2NjZkliwidXNlci6ImFkbWluln0=\n"}
```

**Example 2:****Request:**

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls/acl_1 -u
'eyJldCI6IjEzODAxNTU5OTYiLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjgxOWNIYTRhMGUz\nZTQ
2NjZkliwidXNlci6ImFkbWluln0=\n:' -X PUT -H Content-Type:application/json -d
'{"enable_url_acl":"yes","extended_match":"(Method eq GET)&&(HTTP-Version eq
HTTP/1.1)","extended_match_sequence":"5","action":"deny_with_no_log","deny_response":"rese
t"}
```

**Response:**

```
{"id":"acl_1","token":"eyJldCI6IjEzODAxNTU5OTYiLCJwYXNzd29yZCI6IjhjNGYxNDFiYzgzNjlyMzcxMmMzNDc0ZDA3\nMjU3NmMxliwidXNlciI6ImFkbWluIn0=\n"}
```

## To Delete a Global ACL Rule

<b>URL:</b> /v1/security_policies/{policy_id}/global_acls/{global_acl_id}
---

<b>Method:</b> DELETE
-----------------------

<b>Description:</b> Deletes the given global ACL rule.
--

### Example:

### Request:

```
curl http://192.168.0.1:8000/restapi/v1/security_policies/new_policy/global_acls/acl_1 -u 'eyJldCI6IjEzODAxNTEyOTIiLCJwYXNzd29yZCI6IjY4YzYzM1YzVhYzlwYTEzMjgzODAwNDFiYzgzNjlyMzcxMmMzNDc0ZDA3\nMjU3NmMxliwidXNlciI6ImFkbWluIn0=\n:' -X DELETE
```

### Response:

```
{"msg":"Successfully deleted","token":"eyJldCI6IjEzODAxNTU5OTYiLCJwYXNzd29yZCI6ImYzNmYwNGI2NDRhNjhmMWEwYjNjODQ3MzNk\nNjU3NmMxliwidXNlciI6ImFkbWluIn0=\n"}
```

© Barracuda Networks Inc., 2020 The information contained within this document is confidential and proprietary to Barracuda Networks Inc. No portion of this document may be copied, distributed, publicized or used for other than internal documentary purposes without the written consent of an official representative of Barracuda Networks Inc. All specifications are subject to change without notice. Barracuda Networks Inc. assumes no responsibility for any inaccuracies in this document. Barracuda Networks Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice.