



Clustering

If you want to cluster two or more Barracuda Web Application Firewalls, the following three API's should be executed.

1. [Add Shared Secret to the First Unit/Node](#)
2. [Retrieve Cluster Details from the First Unit/Node](#)
3. [Add the Second Unit/Node to the First Unit/Node](#)

To Add Shared Secret to the First Node

URL: /v1/system

Method: POST

Description: Adds shared secret to the first node.

Parameter Name	Data Type	Mandatory	Description
Input Parameters:			
cluster_shared_secret	Alphanumeric	Yes	Passcode to prevent unauthorized systems from accessing cluster information. All Barracuda Web Application Firewalls in a cluster must have the same shared secret.

Example:

Request:

```
curl http://192.168.0.1:8000/restapi/v1/system -u 'eyJldCI6IjEzNzk0OTUxOTgiLCJwYXNzd29yZCI6ImZiODIjYjlyOWE5MzcyNTBiNTRkZDNmOTg3\nYmlwMzBkliwidXNlci6ImFkbWluIn0=\n:' -X POST -H Content-Type:application/json -d '{"cluster_shared_secret":"12345"}'
```

Response:

```
{"msg":"Configuration Updated","token":"eyJldCI6IjEzODAyMzA4NzciLCJwYXNzd29yZCI6IjJhM2QxZGI5MzcyNjFjNTQzNDNEwNGEyMGJl\nNTRIZTY2IiwidXNlci6ImFkbWluIn0=\n"}
```

To Retrieve Cluster Shared Secret

URL: /v1/system

Method: GET

Description: Retrieves the passcode of the given unit.

Parameter Name	Data Type	Mandatory	Description
Input Parameters:			
parameters	Alphanumeric	Yes	The parameter name (cluster_shared_secret) that needs to be retrieved.

Example:

Request:

```
curl http://192.168.0.1:8000/restapi/v1/system -u 'eyJldCI6IjEzODY0MzA4MTQiLCJwYXNzd29yZCI6ImZzZTkxZjU5YTRiNDgxMTUxZTFiZGJmODBj\nYzY1Zjc2IiwidXNlci6ImFkbWluIn0=\n:' -X GET -G -d parameters=cluster_shared_secret
```



Response:

```
{"token":"eyJldCI6IjEzODY0MzA4MzYiLCJwYXNzd29yZCI6IjM3NzkwMzBiZmQxYWYyNmE5MDA5MGJjZTE5\nMDcyYTl5IiwidXNlciI6ImFkbWluln0=\n","cluster_shared_secret":"123456"}
```

To Retrieve Cluster Details from the First Node

URL: /v1/system

Method: GET

Description: Retrieves cluster information such as System IP, Shared Secret and Serial Number from the first node.

Example 1:

Request:

```
curl http://192.168.0.1:8000/restapi/v1/system -u 'eyJldCI6IjEzODY0MzA4MzYiLCJwYXNzd29yZCI6IjM3NzkwMzBiZmQxYWYyNmE5MDA5MGJjZTE5\nMDcyYTl5IiwidXNlciI6ImFkbWluln0=\n:' -X GET
```

Response:

```
{"token":"eyJldCI6IjEzODY0MzA5NDkiLCJwYXNzd29yZCI6IjFmZThmNWQ4NWNiYmQ1ZDU2ZGM3NzU3NzNk\nOGFYI2U2IiwidXNlciI6ImFkbWluln0=\n","system_serial":"477393","cluster_shared_secret":"123456","system_ip":"192.168.0.1"}
```

Example 2:

Request:

```
curl http://192.168.0.1:8000/restapi/v1/system -u 'eyJldCI6IjEzODY0MzA4MzYiLCJwYXNzd29yZCI6IjM3NzkwMzBiZmQxYWYyNmE5MDA5MGJjZTE5\nMDcyYTl5IiwidXNlciI6ImFkbWluln0=\n:' -X GET -G -d parameters=system_ip
```

Response:

```
{"token":"eyJldCI6IjEzODY0MzEwNjkiLCJwYXNzd29yZCI6IjAyM2FkMmVINmUyZmY1NGI1NDA4M2M2ZTAz\nMjM2NlIiwidXNlciI6ImFkbWluln0=\n","system_ip":"192.168.0.1"}
```

To Add a Second Node to the First Node

This REST API should be executed only when the Barracuda Web Application Firewall Vx is deployed on Microsoft Windows Azure.

URL: /v1/system/configuration_cluster

Method: POST

Description: Adds second node to the first node.



Parameter Name	Data Type	Mandatory	Description
Input Parameters:			
remote_cluster_shared_secret	Alphanumeric	Yes	The passcode specified in cluster_shared_secret of the first node.
remote_system_serial	Alphanumeric	Yes	The serial number of the first node.
remote_system_ip	Numeric	Yes	The WAN (system) IP address of the first node.

Example:**Request:**

```
curl http://192.168.0.1:8000/restapi/v1/system/configuration_cluster -u 'eyJldCI6IjEzODAyMzE2NjYiLCJwYXNzd29yZCI6ImZiODIjYjlyOWE5MzcyNTBiNTRkZDNmOTg3InYmlwMzBkIiwidXNlciI6ImFkbWluln0=\n:' -X POST -H Content-Type:application/json -d '{"remote_cluster_shared_secret":"abcdef","remote_system_serial":"123456","remote_system_ip":"10.11.11.1"}'
```

Response:

```
{"msg":"Configuration Updated","token":"eyJldCI6IjEzODAyMzE2NjYiLCJwYXNzd29yZCI6ImY1YmNlYjIxY2ZmMTdmYzBiZTZIMDExMmY3InMDE3M2IwIiwidXNlciI6ImFkbWluln0=\n"}
```

To add more nodes, perform ONLY step 2 and 3.

To Retrieve Details of Clustered Nodes

URL: /v1/system/configuration_cluster

Method: GET

Description: Lists all nodes that are in cluster with this unit.

Example 1:**Request:**

```
curl http://192.168.0.1:8000/restapi/v1/system/configuration_cluster -u 'eyJldCI6IjEzODAyMzE5OTUuIiLCJwYXNzd29yZCI6ImVhYTA1ZmFIMjkyN2FhNjk2NThiMDUxNDZkInNGM4NWNIiwiwidXNlciI6ImFkbWluln0=\n:' -X GET
```

Response:

```
{"parameters":null,"object":"ConfigurationCluster","data":[{"system_mode":"Active","id":"192.168.0.1","system_serial":"477393","system_ip":"192.168.0.1"}, {"system_mode":"Active","id":"10.11.25.190","system_serial":"477395","system_ip":"10.11.25.190"}],"limit":null,"token":"eyJldCI6IjEzODAyMzE5OTUuIiwidXNlciI6ImFkbWluln0=\n","offset":null}
```

Example 2:**Request:**

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```
curl http://192.168.0.1:8000/restapi/v1/system/configuration_cluster -u
'eyJldCI6IjEzODY0MzE5OTUiLCJwYXNzd29yZCI6ImVhYTA1ZmFIMjkyN2FhNjk2NThiMDUxNDZk\nNGM4NWNlliwiidX
NlciI6ImFkbWluln0=\n:' -X GET -G -d parameters=system_ip
```

Response:

```
parameters:["system_ip"],"object":"ConfigurationCluster","data":[{"system_ip":"192.168.0.1"},{"system_ip":"1
0.11.25.190"}],"limit":null,"token":"eyJldCI6IjEzODY0MzI0NjMiLCJwYXNzd29yZCI6IjM2NDE0M2M4NzM3MDhlZmFi
OWZkZjRlNjky\nOGNiOTU4IiwidXNlciI6ImFkbWluln0=\n","offset":null}
```

To Delete a Node from the Cluster

URL: /v1/system/configuration_cluster/{remote_serial}

Method: DELETE

Description: Deletes the node of the given serial number from the cluster.

Example:

Request:

```
curl http://192.168.0.1:8000/restapi/v1/system/configuration_cluster/354425 -u
'eyJldCI6IjEzODQ1NDE4ODUiLCJwYXNzd29yZCI6IjEwZDgzMGI5ZmQ5OTExYmYwYTlxNWlzMzZDZiZDdjliwiidXN
lciI6ImFkbWluln0=\n:' -X DELETE
```

Response:

```
{"msg":"Configuration
Updated","token":"eyJldCI6IjEzODQ1NDE4OTEiLCJwYXNzd29yZCI6ImZkZDEyMjc5Nzg3MzlhNzE4YWE1NDhkZjYw\
nZTQ1NGRlIiwidXNlciI6ImFkbWluln0=\n"}
```

