

How to Configure Network Objects for AWS and Azure Datacenter Networks

<https://campus.barracuda.com/doc/96026253/>

To be able to accurately reference the networks used by AWS and Azure, these networks can be imported automatically in a dynamic network object. Initial creation is triggered by command line script. After they are created, the network objects are automatically updated every hour. Note, however, that after they are created, it is only possible to disable the network objects in Barracuda Firewall Admin. Deleting the network objects is not possible. Importing dynamic network objects does not work with the Distributed Firewall service.

Before You Begin

Select the network object you want to create:

- **Cloud** – Create network objects for all data centers in AWS and Azure.
- **Azure** – Create network objects for all Azure data centers.
- **AWS** – Create network objects for all AWS data centers.
- **Datacenter Specific** – To create network objects for specific AWS or Azure regions, list all network objects names:

```
/opt/phion/bin/external-netobj-tool list
```

```
[2017-06-20 12:21 UTC] [-root shell-] [-Barracuda Networks-]
[root@DOC-NGCC1:~]# external-netobj-tool list
OnDemandNetworkObjects = Cloud
Cloud = Aws Azure
Azure = Azure.Datacenters
Azure.Datacenters = Azure.Datacenters.Asiaeast Azure.Datacenters.Asiasoutheast Azure.Datacenters.Australiaeast Azure.Datacenters.Australiasoutheast Azure.Datacenters.Brazilsouth Azure.Datacenters.Canadacentral Azure.Datacenters.Canadaeast Azure.Datacenters.Europenorth Azure.Datacenters.Europewest Azure.Datacenters.Indiacentral Azure.Datacenters.Indiasouth Azure.Datacenters.Indiawest Azure.Datacenters.Japaneast Azure.Datacenters.Japanwest Azure.Datacenters.Koreacentral Azure.Datacenters.Koreasouth Azure.Datacenters.Uksouth Azure.Datacenters.Ukwest Azure.Datacenters.Uscentral Azure.Datacenters.Uscentraleuap Azure.Datacenters.Useast Azure.Datacenters.Useast2 Azure.Datacenters.Useast2euap Azure.Datacenters.Usnorth Azure.Datacenters.Ussouth Azure.Datacenters.Uswest Azure.Datacenters.Uswest2 Azure.Datacenters.Uswestcentral
Aws = Aws.Datacenters
Aws.Datacenters = Aws.Datacenters.Ap-northeast-1 Aws.Datacenters.Ap-northeast-2 Aws.Datacenters.Ap-south-1 Aws.Datacenters.Ap-southeast-1 Aws.Datacenters.Ap-southeast-2 Aws.Datacenters.Ca-central-1 Aws.Datacenters.Cn-north-1 Aws.Datacenters.Cn-northwest-1 Aws.Datacenters.Eu-central-1 Aws.Datacenters.Eu-west-1 Aws.Datacenters.Eu-west-2 Aws.Datacenters.Eu-west-3 Aws.Datacenters.Global Aws.Datacenters.Sa-east-1 Aws.Datacenters.Us-east-1 Aws.Datacenters.Us-east-2 Aws.Datacenters.Us-gov-west-1 Aws.Datacenters.Us-west-1 Aws.Datacenters.Us-west-2
[2017-06-20 12:21 UTC] [-root shell-] [-Barracuda Networks-]
[root@DOC-NGCC1:~]#
```

For automatic updates to work, you must enable network object updates on the firewalls units:

1. Log into the CloudGen Firewall.
2. Go to **Box > Infrastructure Services > General Firewall Configuration**.
3. In the left menu, select **Operational**.
4. Click **Lock**.
5. Set **On-demand network objects update** to yes.
6. Click **Send Changes** and **Activate**.

Importing Azure and AWS Data Center Network Ranges

To import network objects from the cloud servers on a CloudGen Firewall, a command line tool must be executed manually on the firewall.

Importing network objects on managed firewalls requires you to execute the tool with the following arguments:

1. Log into the Control Center via SSH.
2. Create the dynamic network objects:
 - For all firewall services on the Control Center:

```
/opt/phion/bin/external-netobj-tool create  
PREDEFINED_CLOUD_NETWORK_OBJECT_NAME
```

```
[root@DOC-NGCC1:~]# external-netobj-tool create Azure  
[2017-06-20 12:44 UTC] [-root shell-] [-Barracuda Networks-]  
[root@DOC-NGCC1:~]#
```

- For all firewall services in a range:

```
/opt/phion/bin/external-netobj-tool create -r RANGE  
PREDEFINED_CLOUD_NETWORK_OBJECT_NAME
```

```
[2017-06-20 11:52 UTC] [-root shell-] [-Barracuda Networks-]  
[root@DOC-NGCC1:~]# external-netobj-tool create -r 1 Cloud  
[2017-06-20 11:52 UTC] [-root shell-] [-Barracuda Networks-]  
[root@DOC-NGCC1:~]#
```

- For all firewall services in a cluster:

```
/opt/phion/bin/external-netobj-tool create -r RANGE -c CLUSTER  
PREDEFINED_CLOUD_NETWORK_OBJECT_NAME
```

- For a specific firewall service:

```
/opt/phion/bin/external-netobj-tool create -r RANGE -c CLUSTER -s  
SERVER_SERVICE PREDEFINED_CLOUD_NETWORK_OBJECT_NAME
```

The cloud data center network objects are now available in the firewall services. It can take up to one hour for the network objects to be populated.

Aws		
Name	References	Filter
DYNAMIC		
Aws.Datacenters.Ap-northeast-1	1	
Aws.Datacenters.Ap-northeast-2	1	
Aws.Datacenters.Ap-south-1	1	
Aws.Datacenters.Ap-southeast-1	1	
Aws.Datacenters.Ap-southeast-2	1	
Aws.Datacenters.Ca-central-1	1	
Aws.Datacenters.Cn-north-1	1	
Aws.Datacenters.Cn-northwest-1	1	
Aws.Datacenters.Eu-central-1	1	https://co
Aws.Datacenters.Eu-west-1	1	
Aws.Datacenters.Eu-west-2	1	
Aws.Datacenters.Eu-west-3	1	
Aws.Datacenters.Global	1	
Aws.Datacenters.Sa-east-1	1	
Aws.Datacenters.Us-east-1	1	
Aws.Datacenters.Us-east-2	1	
Aws.Datacenters.Us-gov-west-1	1	
Aws.Datacenters.Us-west-1	1	
Aws.Datacenters.Us-west-2	1	
STATIC		
Aws	1	Ref: Aws.Datacenters
Aws.Datacenters	1	Ref: Aws.Datacenters.Ap-northeast-1 , Ref: Aws.Datacenters.Ap-northeast-2 ,

Figures

1. cloud_network_objects_01.png
2. cloud_network_objects_02.png
3. cloud_network_objects_03.png
4. cloud_network_objects_04.png

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