

## How to Configure Network Objects for AWS and Azure Datacenter Networks

<https://campus.barracuda.com/doc/70588230/>

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 NextGen Admin. Deleting the network objects is not possible.

### Before You Begin

Select the network object you want to create:

- **Cloud** – Create network objects for all datacenters in AWS and Azure.
- **Azure** – Create network objects for all Azure datacenters.
- **Aws** – Create network objects for all AWS datacenters.
- **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.Uscentraleu 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:~]#
```

### Importing Azure and AWS Datacenter Network Ranges

To import network objects from the cloud servers on a NextGen 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 datacenter network objects are now available in the firewall services. It might take up to one hour for the network objects to be populated.

Network objects		
Aws	Filter	Filter
Name	References	Entries
<span>▲</span> 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	
 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	
<span>▲</span> 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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