Clustering the Barracuda Load Balancer ADC Instances in Different Availability Zones

https://campus.barracuda.com/doc/62652475/

This article walks you through the steps to configure the Barracuda Load Balancer ADC instances for high availability in different availability zones in Amazon Web Services.

> Before you continue with the steps mentioned below, ensure that you have completed the configuration settings mentioned in the Clustering the Barracuda Load Balancer ADC Instances in Amazon Web Services article.

Step 1. Deploy Two Barracuda Load Balancer ADC Instances on Amazon Web Services

Follow the instructions mentioned in **Step 5. Deploy the Barracuda Load Balancer ADC on Amazon Web Services** in the Barracuda Load Balancer ADC Deployment and Quick Start Guide for Amazon Web Services article and deploy two Barracuda Load Balancer ADC instances in two different availability zones.

> Ensure you select the IAM role created in **Create an IAM Role** when deploying the Barracuda Load Balancer ADC instances.

Step 2. Allocate and Assign an Elastic IP Address to Your Instance

Follow the instructions mentioned in **Step 6. Allocate and Assign an Elastic IP Address to your Instance** in the Barracuda Load Balancer ADC Deployment and Quick Start Guide for Amazon Web Services article to allocate the elastic IP address to the deployed Barracuda Load Balancer ADC instances.

Step 3. License the Barracuda Load Balancer ADC

Follow the instructions mentioned in **Step 7. (BYOL Only) License the Barracuda Load Balancer ADC** in the Barracuda Load Balancer ADC Deployment and Quick Start Guide for Amazon Web Services to provision the deployed Barracuda Load Balancer ADC instances.

Step 4. Verify Your Configuration and Change the Password

Follow the instructions mentioned in **Step 8. Verify your Configuration and Change the Password** in the Barracuda Load Balancer ADC Deployment and Quick Start Guide for Amazon Web Services article to verify your configuration and change the password on both of the deployed Barracuda Load Balancer ADC instances.

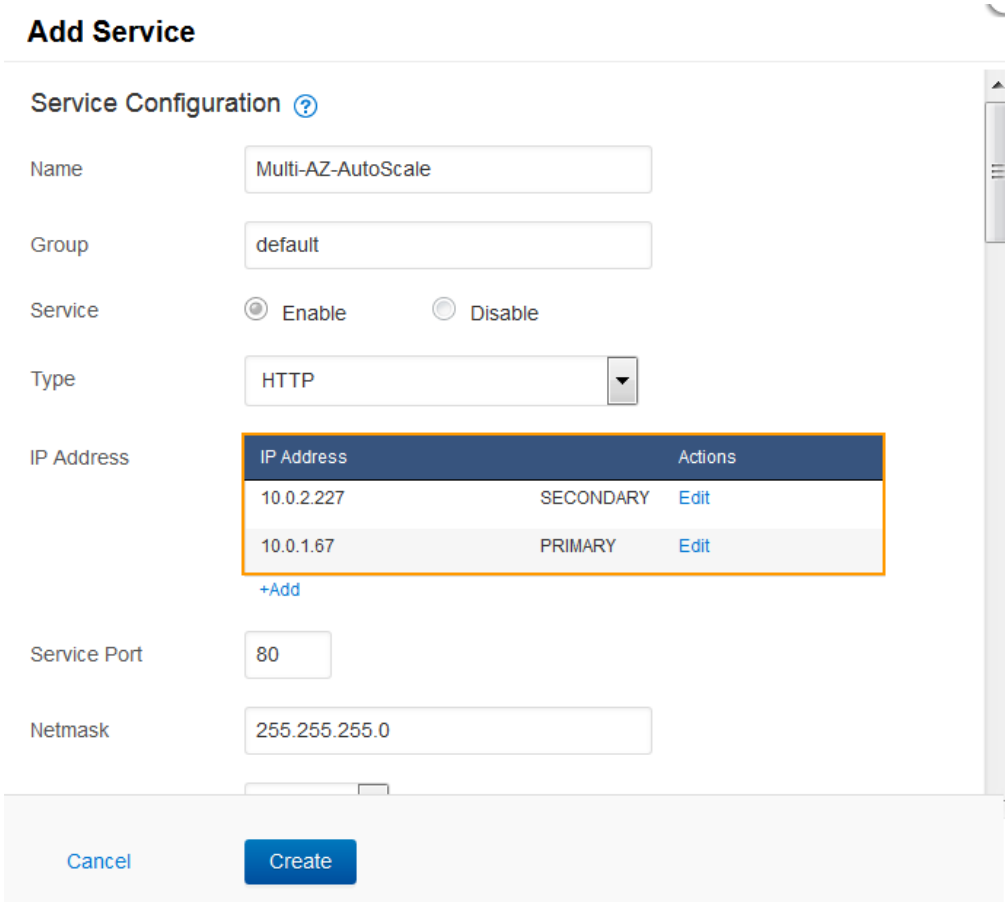
Step 5. Cluster the Deployed Barracuda Load Balancer ADC Instances

Follow the instructions mentioned in **Step 5: Cluster the Deployed Barracuda Load Balancer ADC Instances** in the Clustering the Barracuda Load Balancer ADC Instances in the Same Availability Zone article to deploy the instances.

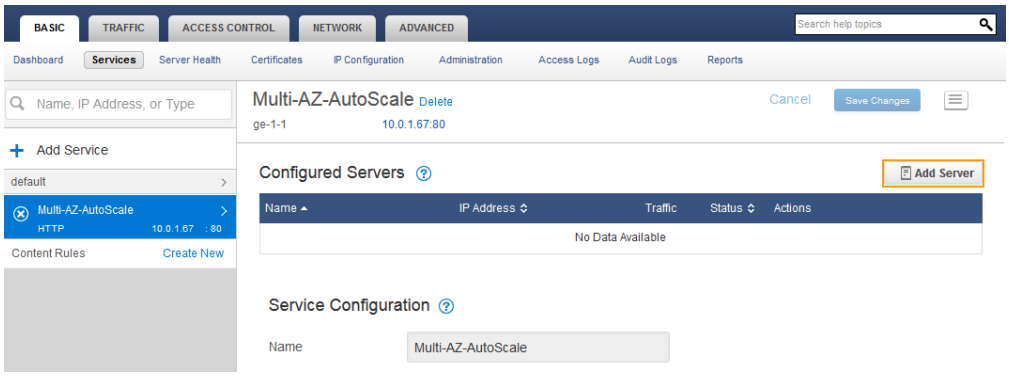
Step 6. Configure the Service(s) on the Barracuda Load Balancer ADC

If you have deployed the Barracuda Load Balancer ADC instance with two interfaces (i.e., mgmt (eth0) and ge-1-1 (eth1)), create the service by following the steps mentioned below:

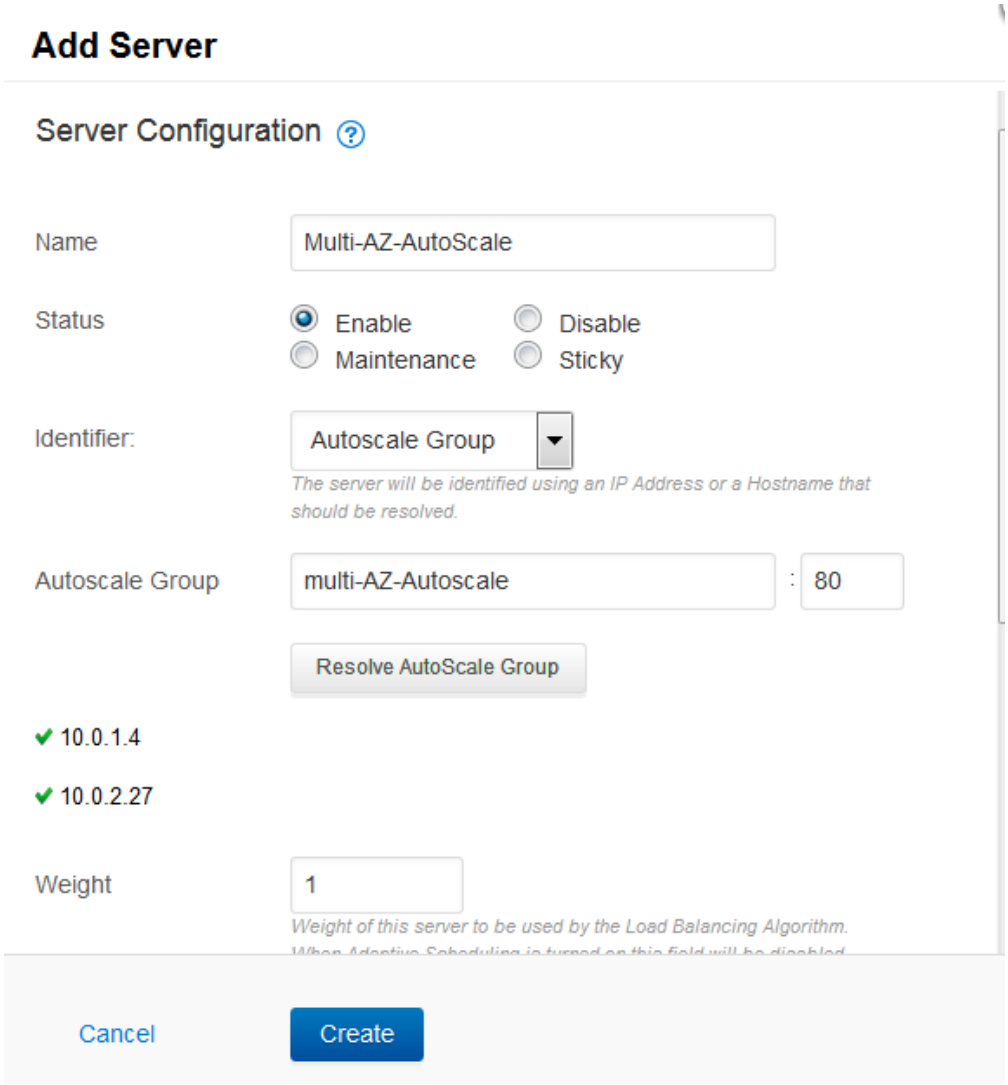
1. Log into the *Barracuda-LB-ADC1* (Primary/Active unit) web interface.
2. Use the private IP addresses assigned to both the instances as your VIP to create the service. Go to the **BASIC > Services** page, and click **Add Service**.
3. In the **Add Service** window, specify values for the following fields:
    1. **Name**: Enter a name for the service.
    2. **Group**: Enter the group name under which you want to create the service.
    3. **Service**: Select *Enable*.
    4. **Type**: Select the type of the service you want to create. For example: HTTP
    5. **IP Address**: Click **Add** and enter the private IP address of the primary instance (i.e. *Barracuda-LB-ADC1*) and click **Done Editing**. Click **Add** again, enter the private IP address of the secondary instance (i.e.*Barracuda-LB-ADC2*) and click **Done Editing**.
    6. **Service Port**: Enter the port for the service.
    7. **Netmask**: Enter the netmask of the IP address.
    8. **Interface**: Select the interface for the service.
    9. Click **Create**. For more information on how to add a service, click the **Help** button in the web interface.



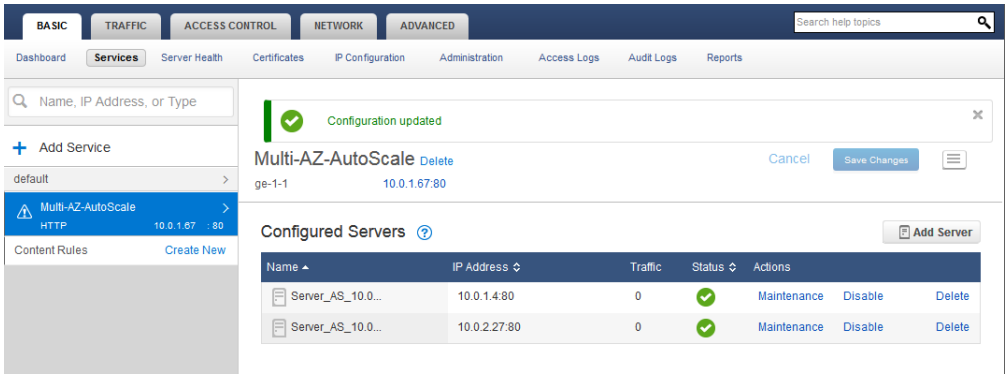
4. Go to the **NETWORK > Routes** page.
5. In the **Add Static Route** section:
    1. **IP Protocol Version** - Select *IPv4*
    2. **IP Address** - Enter *0.0.0.0*.
    3. **Netmask** - Enter *0.0.0.0*.
    4. **Gateway Address** - Enter *10.0.1.1*.
    5. **Network Interface** - Select *ge-1-1*.
6. Click **Save**.
7. Repeat step **5** and **6** to add another route. **Note**: The **Gateway Address** for this route should be the gateway address of the secondary instance.
8. Go to the **BASIC > Services** page, select the service you created in step **3** and click **Add Server**.



9. In the **Add Server** window, specify values for the following fields:
    1. **Name**: Enter a name for the server.
    2. **Status**: Select *Enable*.
    3. **Identifier**: Select *Autoscale Group*.
    4. **Port**: Enter the port for the auto scale group.
    5. **Autoscale Group**: Enter the auto scale group name created in **Step 1: Create an Auto Scaling Group**.
    6. Click **Resolve AutoScale Group**. This will resolve the server IP addresses added in the specified auto scale group.



7. Specify values for other parameters as required and click **Create**.


BASIC
TRAFFIC
ACCESS CONTROL
NETWORK
ADVANCED
Search help topics
Dashboard
Services
Server Health
Certificates
IP Configuration
Administration
Access Logs
Audit Logs
Reports
Name, IP Address, or Type
Add Service
default
Multi-AZ-AutoScale
HTTP 10.0.1.67 : 80
Content Rules
Create New
Configuration updated
Multi-AZ-AutoScale Delete
ge-1-1 10.0.1.67:80
Cancel
Save Changes
Configured Servers
Add Server
Name
IP Address
Traffic
Status
Actions
Server_AS_10.0...
10.0.1.4:80
0
Maintenance
Disable
Delete
Server_AS_10.0...
10.0.2.27:80
0
Maintenance
Disable
Delete

Figures

1. AddService1.png
2. Service.png
3. AddServer.png
4. AutoScaleGroupAdded.png