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## 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

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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

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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

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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

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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

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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

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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.

### Add Service

**Service Configuration** ?

Name

Group

Service  Enable  Disable

Type

IP Address

IP Address		Actions
10.0.2.227	SECONDARY	<a href="#">Edit</a>
10.0.1.67	PRIMARY	<a href="#">Edit</a>

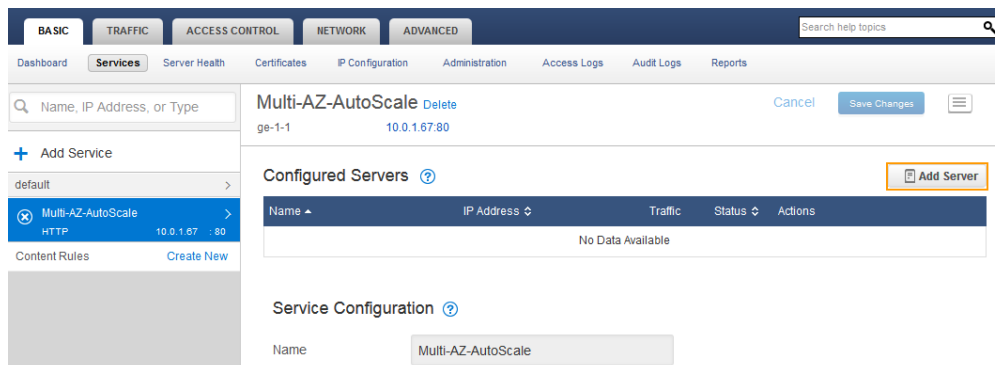
[+Add](#)

Service Port

Netmask

[Cancel](#) [Create](#)

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**.



The screenshot shows the 'Services' page in the Barracuda Load Balancer ADC interface. The 'Multi-AZ-AutoScale' service is selected, and the 'Add Server' button is highlighted. The service configuration shows the name 'Multi-AZ-AutoScale', group 'default', and type 'HTTP'. The IP address is '10.0.1.67' and the service port is '80'. The 'Configured Servers' table is empty, showing 'No Data Available'.

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.

### Add Server

Server Configuration ?

Name

Status  Enable  Disable  
 Maintenance  Sticky

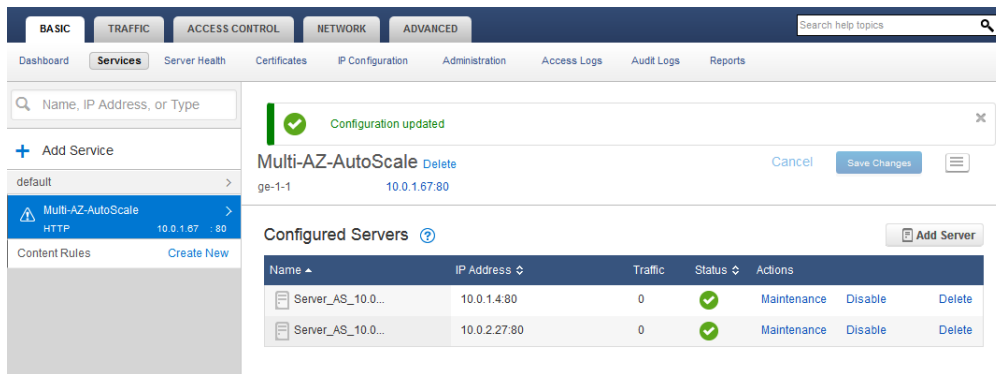
Identifier:  ▼  
The server will be identified using an IP Address or a Hostname that should be resolved.

Autoscale Group  :

✓ 10.0.1.4  
✓ 10.0.2.27

Weight   
Weight of this server to be used by the Load Balancing Algorithm. When Adaptive Scheduling is turned on this field will be disabled.

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



The screenshot displays the Barracuda Load Balancer ADC web interface. At the top, there are navigation tabs: BASIC, TRAFFIC, ACCESS CONTROL, NETWORK, and ADVANCED. Below these are sub-tabs: Dashboard, Services, Server Health, Certificates, IP Configuration, Administration, Access Logs, Audit Logs, and Reports. A search bar for help topics is located in the top right.

The main content area shows a notification: "Configuration updated" with a green checkmark. Below this, the service configuration for "Multi-AZ-AutoScale" is displayed, including a "Delete" link, "Cancel" button, and "Save Changes" button. The service ID is "ge-1-1" and the IP address is "10.0.1.67:80".

Under the "Configured Servers" section, there is an "Add Server" button and a table with the following data:

Name	IP Address	Traffic	Status	Actions
Server_AS_10.0...	10.0.14.80	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

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