Disk Expansion of the Barracuda Web Application Firewall for Amazon Web Services (AWS)
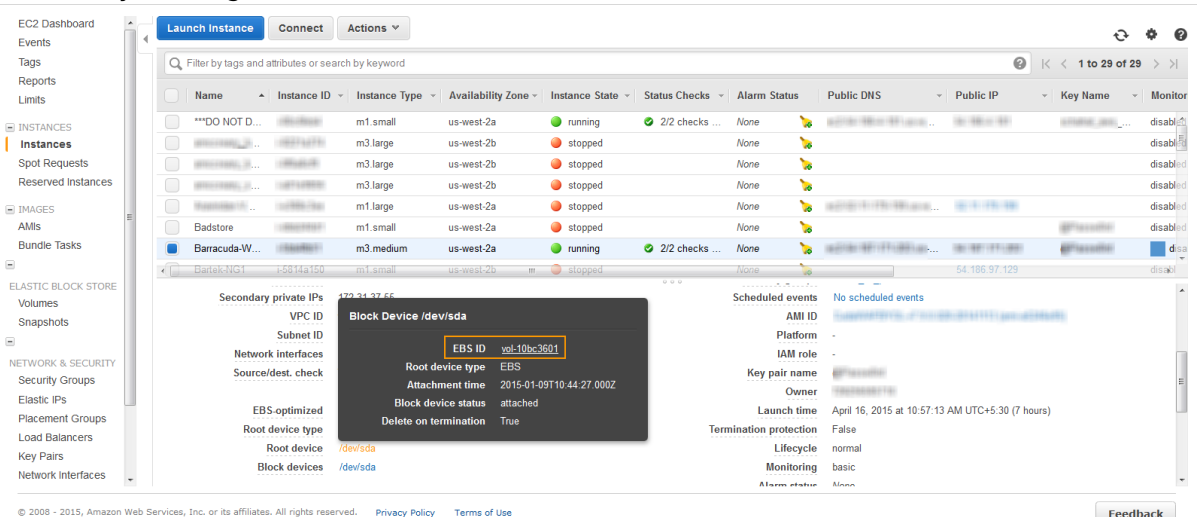
https://campus.barracuda.com/doc/44436662/

The Barracuda virtual machines (VMs) purchased through the Amazon Marketplace prior to April 28, 2015 do not support disk expansion. If you want to expand the disk for the virtual machines that were deployed prior to this date, you must re-deploy the VMs using the latest *Barracuda Web Application Firewall AMI* available in the Amazon Marketplace.

To increase the hard disk size of the deployed Barracuda Web Application Firewall on Amazon Web Services, do the steps below:
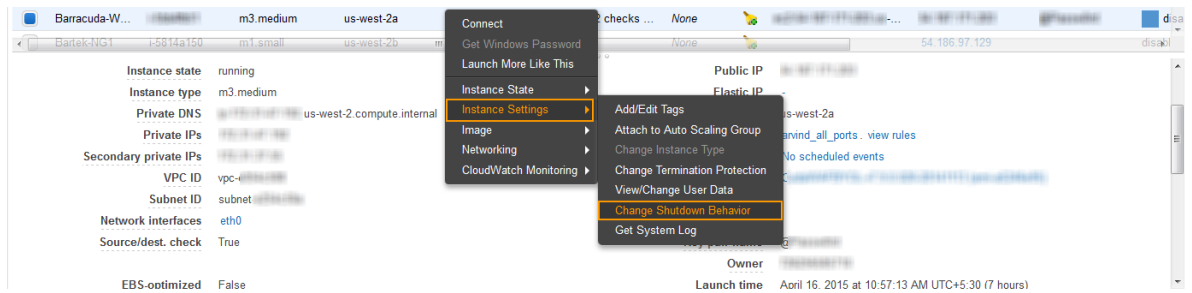
Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the instance

1. Log into the AWS EC2 Management Console.
2. From the EC2 dashboard, select **Instance** under **INSTANCES**.
3. In the **Instances** table, select the Barracuda Web Application Firewall requiring increased disk size and note the following:
   1. **Instance ID**
   2. **Availability Zone**
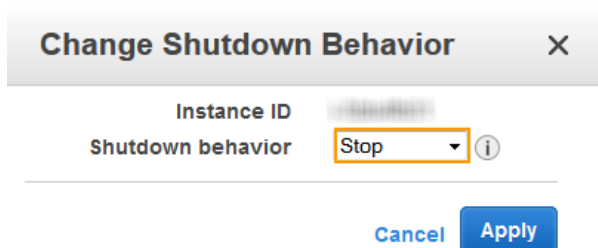   3. **EBS ID** by clicking on the **Root device** value.

4. If the instance is running, ensure you shut down the instance by following the steps below:
   1. Right click on the instance, select **Instance Settings** and then select **Change Shutdown Behavior**.

2. In the **Change Shutdown Behavior** window, select **Stop** from the **Shutdown behavior** list and click **Apply**.

6. If the **Shutdown behavior** is already set to **Stop**, then choose **Cancel**.

Step.2: Create a Snapshot of the Volume

1. From the EC2 dashboard, select **Volumes** under **ELASTIC BLOCK STORE**.
2. In the search filter, enter the **EBS ID** noted in step **3.c** under Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the instance.
3. Right click on the volume, and select **Create Snapshot**.
4. In the **Create Snapshot** window, enter a name and description, and click **Create**.
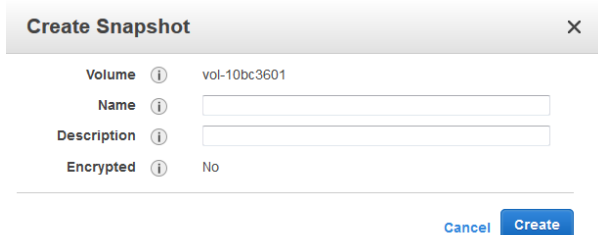
5. Note the snapshot ID.
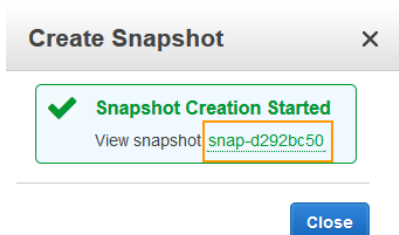
Step.3: Create a New Volume for the Snapshot

1. From the EC2 dashboard, select **Snapshots** under **ELASTIC BLOCK STORE**.
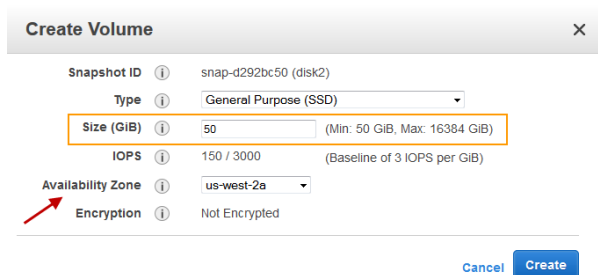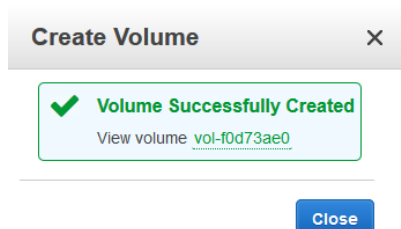2. In the search filter, enter the snapshot ID noted in step **5** under Step.2: Create a Snapshot of the Volume.
3. Right click on the snapshot when **Status** displays **completed**, and click **Create Volume**.
4. In the **Create Volume** window, do the following:
    1. Select the desired volume type and enter a new volume size.
    2. Ensure the **Availability Zone** matches the instance **Availability Zone** noted in step **3.b** under Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the instance.
    3. Click **Create**.

5. Note the volume ID.

Step.4 Detach the Old Volume from the Instance

1. From the EC2 dashboard, select **Volumes** under **ELASTIC BLOCK STORE**.
2. In the search filter, enter the **EBS ID** noted in step **3.c** under Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the instance.
3. Right click on the volume, and select **Detach Volume**.
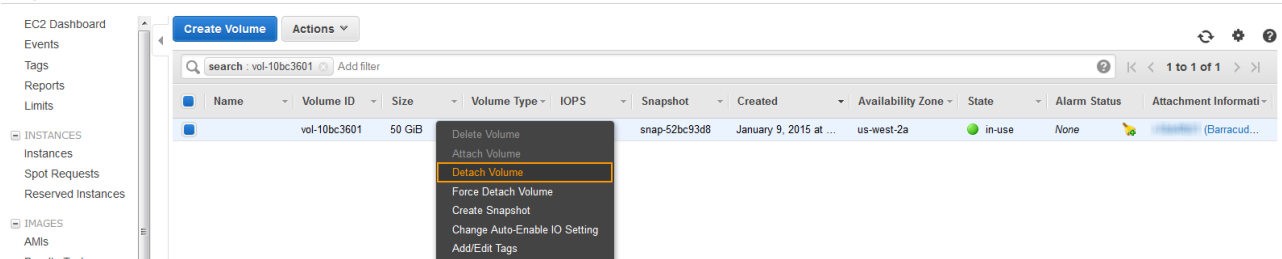
4. In the **Detach Volume** window, click **Yes, Detach** to confirm.

Step.5: Attach the New Volume to the Instance

1. From the EC2 dashboard, select **Volumes** under **ELASTIC BLOCK STORE**.
2. In the search filter, enter the volume ID noted in step **5** under Step.3: Create a New Volume for the Snapshot.
3. Right click on the volume, and select **Attach Volume**.
4. In the **Attach Volume** window, do the following:
   1. Enter the name or instance ID in the **Instance** field, and select the instance noted in step **3.a** under Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the instance.
   2. Ensure the device name is **/dev/xvda**.
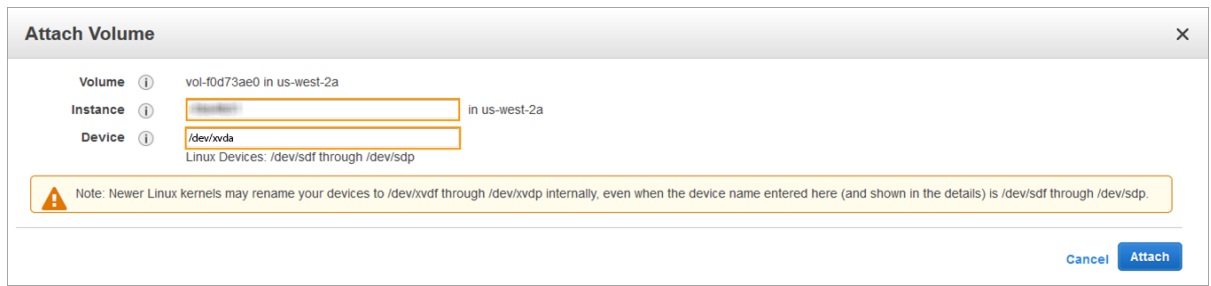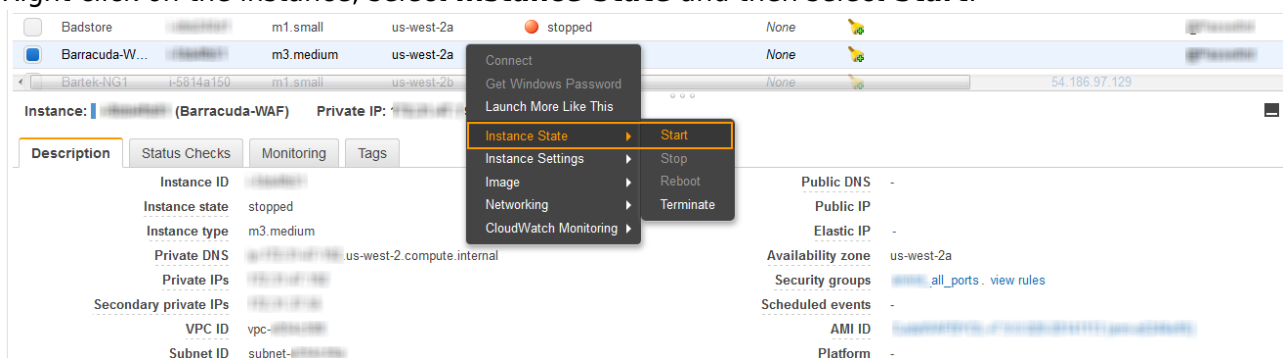   3. Click **Attach**.

Attach Volume   ✕

Volume ⓘ	vol-f0d73ae0 in us-west-2a
Instance ⓘ	in us-west-2a
Device ⓘ	/dev/xvda
	Linux Devices: /dev/sdf through /dev/sdp

⚠ Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel   **Attach**

Step.6: Restart the Instance to Apply the New Volume

1. From the EC2 dashboard, select **Instance** under **INSTANCES**.
2. In the **Instances** table, select the Barracuda Web Application Firewall instance to which the new volume was attached in step **4** under Step.5: Attach the New Volume to the Instance.
3. Right click on the instance, select **Instance State** and then select **Start**.

☐ Badstore		m1.small	us-west-2a	🔴 stopped	None	🟡		
☑ Barracuda-W...		m3.medium	us-west-2a		None	🟡		
◀ Bartek-NG1	i-5814a150	m1.small	us-west-2b		None	🟡	54.186.97.129	

Instance: | (Barracuda-WAF)   **Private IP:**   🖳

Description	Status Checks	Monitoring	Tags

		Connect		
Instance ID		Get Windows Password	Public DNS	-
Instance state	stopped	Launch More Like This	Public IP	-
Instance type	m3.medium	**Instance State** ▶ **Start**	Elastic IP	-
Private DNS	us-west-2.compute.internal	Instance Settings ▶ Stop	Availability zone	us-west-2a
Private IPs		Image ▶ Reboot	Security groups	all_ports . view rules
Secondary private IPs		Networking ▶ Terminate	Scheduled events	-
VPC ID	vpc-	CloudWatch Monitoring ▶	AMI ID	
Subnet ID	subnet-		Platform	

4. In the **Start Instances** window, choose **Yes, Start**. If the instance fails to start, and the volume being expanded is a root volume, verify that you attached the expanded volume using the same device name as the original volume, i.e **/dev/xvda**.

Figures

1. EBS_ID.png
2. Stop_the_Instance.png
3. Shutdown_Behavior.png
4. Snapshot.png
5. Snapshot_Created.png
6. Create_Volume.png
7. Volume_Created.png
8. Detach_Volume.png
9. attach_volume.png
10. Restart the instance.png