

Disk Expansion on Amazon Web Services

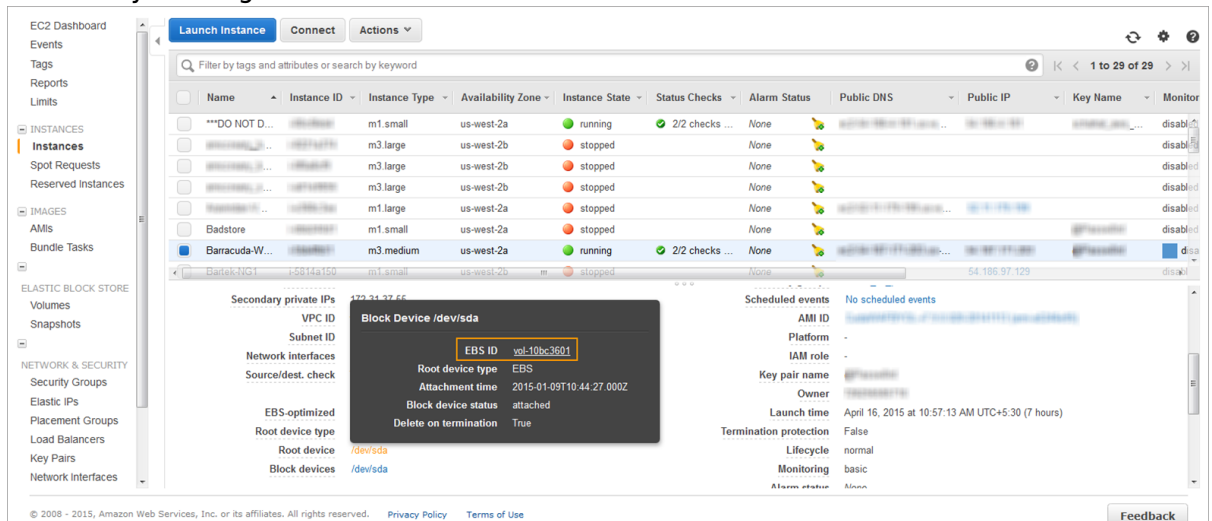
<https://campus.barracuda.com/doc/46892153/>

Virtual machines (VMs) deployed from Amazon Marketplace prior to April 28, 2015 do not support Disk Expansion. If you deployed prior to this date and want to expand the disk, you must re-deploy using the latest VM AMI available in the Amazon Marketplace.

Perform the steps below to expand the disk of the deployed Barracuda Email Security Gateway on Amazon Web Services.

Step 1: Note the disk size of the Barracuda Email Security Gateway 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 Email Security Gateway for which you want to increase the disk size and note the following:
 1. **Instance ID**
 2. **Availability Zone**
 3. **EBS ID** by clicking on the **Root device** value.

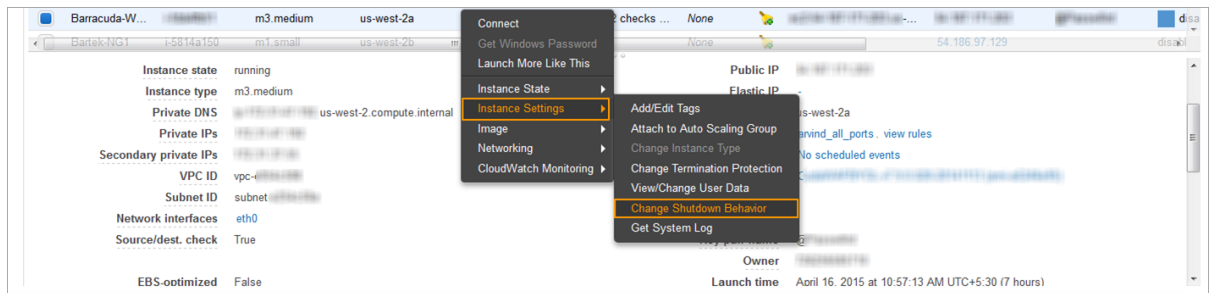


The screenshot shows the AWS EC2 Management Console. The left sidebar contains navigation links for INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main area displays a table of instances. One instance, 'Barracuda-W...', is selected. A modal window is open showing details for the root device '/dev/sda'. The modal includes the following information:

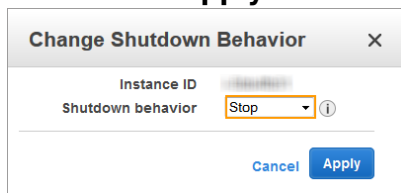
- Block Device /dev/sda
- EBS ID: vol-10bc3601
- Root device type: EBS
- Attachment time: 2015-01-09T10:44:27.000Z
- Block device status: attached
- Delete on termination: True

The modal also shows the instance's state as 'running' and the root device as '/dev/sda'.

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**.



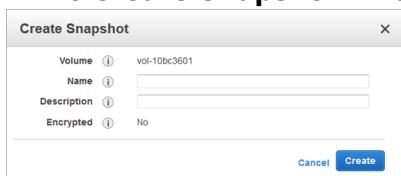
2. In the **Change Shutdown Behavior** window, select **Stop** from the **Shutdown behavior** list and click **Apply**.



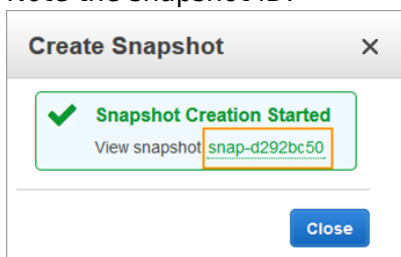
5. If the **Shutdown behavior** is already set to **Stop**, then choose **Cancel**.

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 Email Security Gateway 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**.



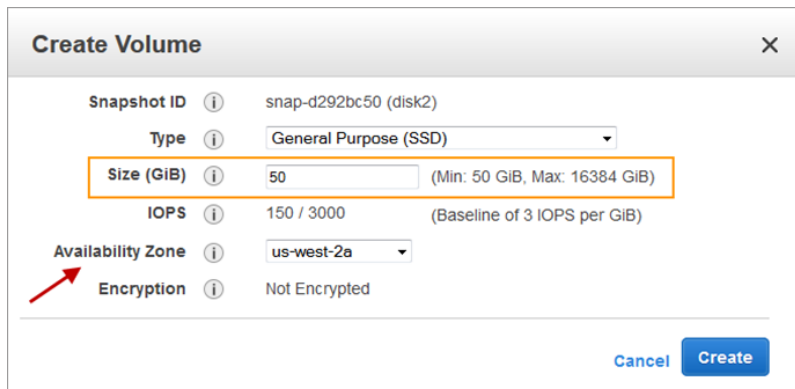
5. Note the snapshot ID.



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 Email Security Gateway and stop the instance.*
 3. Click **Create**.

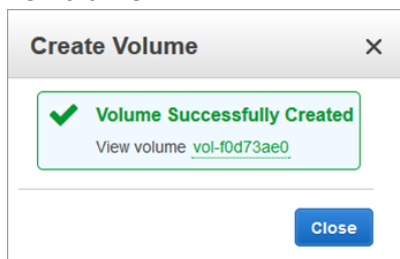


The 'Create Volume' dialog box shows the following configuration:

- Snapshot ID: snap-d292bc50 (disk2)
- Type: General Purpose (SSD)
- Size (GiB): 50 (Min: 50 GiB, Max: 16384 GiB)
- IOPS: 150 / 3000 (Baseline of 3 IOPS per GiB)
- Availability Zone: us-west-2a
- Encryption: Not Encrypted

Buttons: Cancel, Create

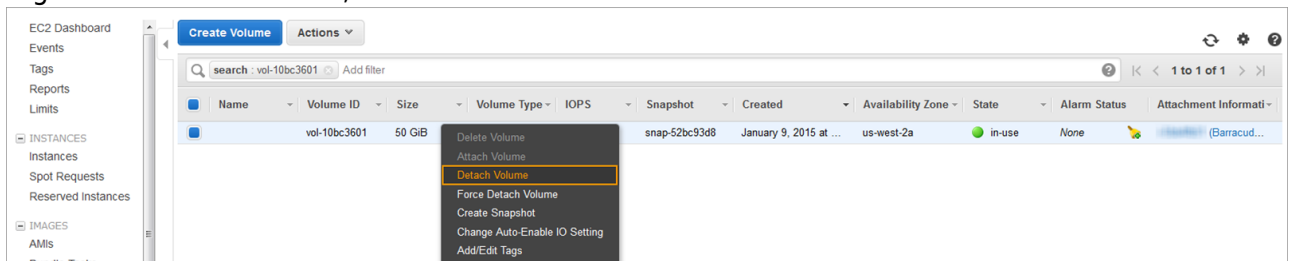
5. Note the volume ID.



A green checkmark icon is followed by the text 'Volume Successfully Created'. Below this, it says 'View volume vol-f0d73ae0'. A 'Close' button is at the bottom right.

Step 4: Detach the Old Volume from the Instance

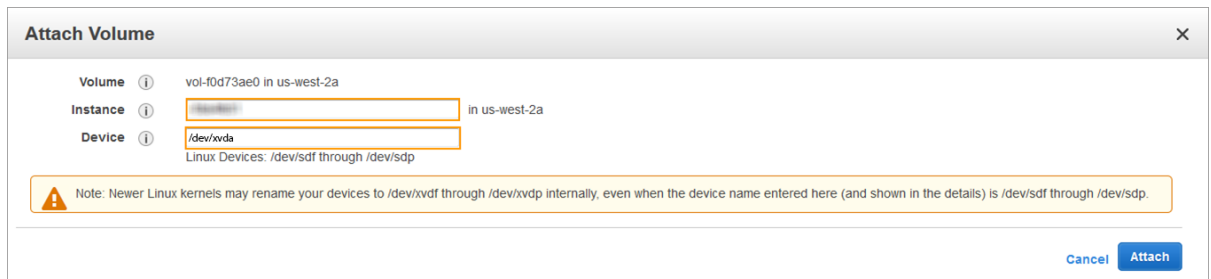
1. From the EC2 dashboard, select **Volumes** under **ELASTIC BLOCK STORE**.
2. In the search filter, enter the **EBS ID** noted in step **3.c** under *Step.1: Note the disk size of the Barracuda Email Security Gateway and stop the instance.*
3. Right click on the volume, and select **Detach Volume**.



4. In the **Detach Volume** window, click **Yes, Detach** to confirm.

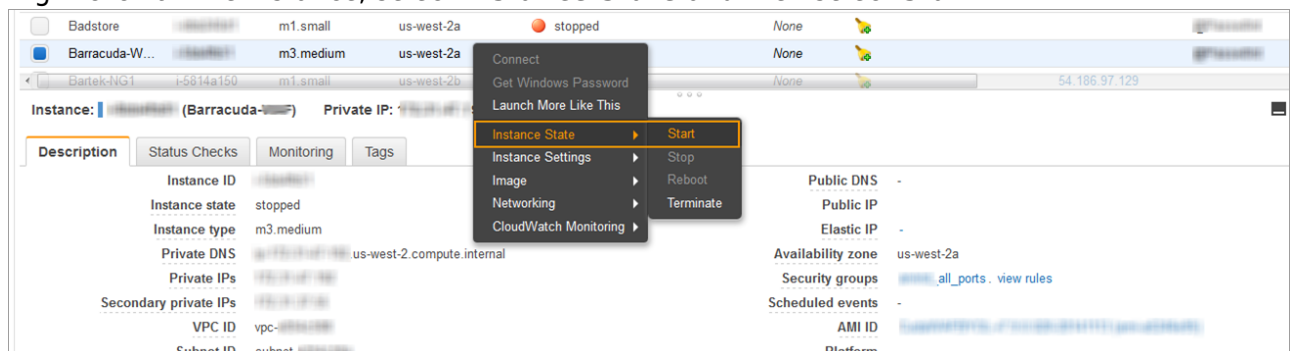
Step 5: Attach the New Volume to the Instance

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 Email Security Gateway and stop the instance*.
 2. Ensure the device name is **/dev/xvda**.
 3. Click **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 Email Security Gateway 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**.



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

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2. change_shutdown.png
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6. create_volume.png
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8. detach_volume.png
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