

Disk Expansion on Amazon Web Services

https://campus.barracuda.com/doc/6649/

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 <u>AWS EC2 Management Console</u>.
- 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.



- 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**.



📒 В	arracuda-W	1001001	m3.medium	us-west-2a	Connect	checks	None	2	10-11-10-10-10-10-10-10-10-10-10-10-10-1	10-07-17-00	dina sa si
- B	artek-NG1	i-5814a150	m1.small	us-west-2b m			None			54.186.97.129	
	Ins	stance state	running		Launch More Like This) O		Public IP	0.001011000		
		stance type	m3.medium		Instance State			Elastic IP			
	F	Private DNS	A-110-10-10-100	us-west-2.compute.internal	Instance Settings	Add/Edit	Tags		is-west-2a		
		Private IPs	11-11-12-120		Image 🔹 🕨			aling Group	arvind_all_ports . view rul	es	
	Secondary	private IPs	120-12-12-10		Networking)				No scheduled events		
		VPC ID	vpc-(CloudWatch Monitoring)			n Protectior	COMPARENT OF THE OWNER	0.011111.000.00046	191
		Subnet ID	subnet				ange User				
	Networl	k interfaces	eth0			Get Sys	Shutdown	Benavior	_		
	Source/	/dest. check	True			Get Sys	tem Log		ā		
								Owner	78674668719		
	EBS	S-optimized	False				La	unch time	April 16. 2015 at 10:57:13	3 AM UTC+5:30 (7 hours)	

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.

~	Snapshot C	reation Started	٦
		snap-d292bc50	

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.

Crea	te Volume	Ð			×
	Snapshot ID	(j	snap-d292bc50 (di	sk2)	
	Туре	(\mathbf{i})	General Purpose	(SSD) 🔻	
	Size (GiB)		50	(Min: 50 GiB, Max: 16384 GiB)	
	IOPS	()	150 / 3000	(Baseline of 3 IOPS per GiB)	
Avai	lability Zone	(j)	us-west-2a 🗸		
<u> </u>	Encryption	i	Not Encrypted		
				Cancel	Create

5. Note the volume ID.

Crea	te Volume	×
•	Volume Successfully Created View volume vol-f0d73ae0	
	Close	

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**.

EC2 Dashboard	Create	Volume	Ac	tions ♥												÷	φ.
Tags	Q sea	rch : vol	-10bc360	1 💿 Add fi	lter									0	< < 1	I to 1 of 1	> >
Reports Limits	Na	ime	~ \	olume ID	- Size	Volume Type - IOPS	Ŧ	Snapshot -	Created	*	Availability Zone -	State	- Ala	irm Status	Atta	achment Ir	format
INSTANCES			v	ol-10bc3601	50 GiB	Delete Volume		snap-52bc93d8	January 9, 2015 a	at	us-west-2a	🥚 in-use	Nor	ne 1		(Ba	rracud
Instances						Attach Volume											
Spot Requests						Detach Volume											
Reserved Instances						Force Detach Volume											
						Create Snapshot											
IMAGES						Change Auto-Enable IO Setting											
AMIs						Add/Edit Tags											

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:
 - 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**.

Instance	(i)	(Augustan)	in us-west-2a
Device	(i)	/dev/xvda	
		Linux Devices: /dev/sdf through /dev/sdp	
Note: Newe	r Linux	kernels may rename your devices to /dev/xvdf th	rrough /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sd

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**.

	Badstore	m1.small	us-west-2a	stopped			None	6		and the second second
	Barracuda-W	m3.medium	us-west-2a	Connect		1	None	6		En accesso
•	Bartek-NG1 i-5814a1	0 m1.small	us-west-2b	Get Windows Passw	vord	000	None	10	54.186.97.129	
Inst	ance: Barra	uda-IIIIF) Private I	P: 1	Launch More Like Th	iis					
				Instance State	•	Start				
De	scription Status Check	s Monitoring Ta	gs	Instance Settings	►	Stop				
	Instance I	D		Image		Reboot	Public		-	
	Instance stat	e stopped		Networking		Terminate	Pub	lic IP		
	Instance typ	e m3.medium		CloudWatch Monitori	ing 🕨		Elas	tic IP		
	Private DN	S US-W	est-2.compute.ir	nternal	_		Availability	zone	us-west-2a	
	Private IF	S					Security g	roups	all_ports . view rules	
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	VPC I	D vpc-						MI ID	Compared Terring of Terring St. 80441111 (process) (st.	1991
	Subnet I	D subnet-					Pla	tform		

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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