

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 <u>Amazon Marketplace</u> 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 <u>Amazon Marketplace</u>.

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

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Tags	Q	Filter by tags and a	ttributes or searc	h by keyword						0	< 1 to 29 of 29	• > >
Reports Limits		Name 🔺	Instance ID 👻	Instance Type 👻	Availability Zone -	Instance State ~	Status Checks 👻	Alarm Status	Public DNS -	Public IP	- Key Name -	Monit
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-		Matural	subnet ID		EBS ID vol-10bc36	i01		IAM role				
NETWORK & SECURITY				Root de	vice type EBS							
Security Groups		Source/	dest. check		nent time 2015-01-09	9T10:44:27.000Z		Key pair name Owner				
Elastic IPs		50/		Block dev	ice status attached							
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Load Balancers			levice type				lern	nination protection				
Key Pairs				dev/sda				Lifecycle				
Network Interfaces		Blo	ock devices /	dev/sda				Monitoring				

- 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**.



Barracuda-W	m3.medium	us-west-2a	Connect	checks	None	6	Berlin Brith 1881 188	101-001-011-000	an second	
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Instance state	running		Launch More Like This	0	Pu	ublic IP	4-10111-001			
Instance type	m3.medium		Instance State		Ela	astic IP	-			
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Source/dest. check	True			Get Syster	n Log		ā			
						Owner	70030000710			
EBS-optimized	False					ch time	April 16, 2015 at 10:57:13	AM UTC+5:30 (7 hours)		

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

Change Shutdown	Behavior	×
Instance ID Shutdown behavior	Stop • (j	
	Cancel App	ly

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 <u>Step.1</u>: <u>Note the disk size of the</u> <u>Barracuda Web Application Firewall and stop the instance</u>.
- 3. Right click on the volume, and select **Create Snapshot**.
- 4. In the Create Snapshot window, enter a name and description, and click Create.

	Create Snap	shot		×
	Volume	(j)	vol-10bc3601	
	Name	(j)		
	Description	(i)		
	Encrypted	(j)	No	
5.	Note the s	nap	Cancel Create	
	Create Sn	apsł	not X	
	Snap:	shot C	Creation Started ot snap-d292bc50	

Step.3: Create a New Volume for the Snapshot



- 1. From the EC2 dashboard, select **Snapshots** under **ELASTIC BLOCK STORE**.
- In the search filter, enter the snapshot ID noted in step 5 under <u>Step.2: Create a Snapshot of</u> 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.
 - Ensure the Availability Zone matches the instance Availability Zone noted in step 3.b under <u>Step.1: Note the disk size of the Barracuda Web Application Firewall and stop the</u> <u>instance</u>.
 - 3. Click Create.

Crea	te Volum	e			×
	Snapshot ID	(j)	snap-d292bc50 (di	sk2)	
	Туре	(j)	General Purpose	(SSD) 🔹	
	Size (GiB)	i	50	(Min: 50 GiB, Max: 16384 GiB)	
	IOPS	(j)	150 / 3000	(Baseline of 3 IOPS per GiB)	
Avai	ilability Zone	(i)	us-west-2a 🗸		
/	Encryption	(j)	Not Encrypted		

Cancel 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 <u>Step.1: Note the disk size of the</u> <u>Barracuda Web Application Firewall and stop the instance</u>.
- 3. Right click on the volume, and select **Detach Volume**.

EC2 Dashboard	•	Create Volum	e	Actions *												Ð	¢ @
Tags		Q search : w	ol-10bc	:3601 💿 Add filter										0	< < 1 to	o 1 of 1	> >
Reports Limits		Name	Ŧ	Volume ID -	Size	✓ Volume Type ✓ IOPS	Ŧ	Snapshot	Created	-	Availability Zone -	State	- Alarn	n Status	Attach	ment In	formati -
INSTANCES				vol-10bc3601	50 GiB	Delete Volume		snap-52bc93d8	January 9, 2	015 at	us-west-2a	🥚 in-use	None	1		(Bar	racud
Instances						Attach Volume											
Spot Requests						Detach Volume											
Reserved Instances						Force Detach Volume											
IMAGES						Create Snapshot Change Auto-Enable IO Setting											
AMIs Bundle Tasks						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.
- In the search filter, enter the volume ID noted in step 5 under <u>Step.3: Create a New Volume for</u> the <u>Snapshot</u>.
- 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 <u>Step.1: Note the disk size of the Barracuda Web Application Firewall and stop</u> the instance.
 - 2. Ensure the device name is /dev/xvda.
 - 3. Click **Attach**.

Volume	(i)	vol-f0d73ae0 in us-west-2a	
Instance	(i)	(Baceler)	in us-west-2a
Device	(j)	/dev/xvda Linux Devices: /dev/sdf through /dev/sdp	
Note: Ne	wer Linu	x 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/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 Web Application Firewall instance to which the new volume was attached in step **4** under <u>Step.5: Attach the New Volume to the Instance</u>.
- 3. Right click on the instance, select **Instance State** and then select **Start**.

	Badstore	1000000	m1.small	us-west-2a	🥥 stopped			None	0		an anni a
	Barracuda-W	V	m3.medium	us-west-2a	Connect		1	None	74		#Phasement
	Bartek-NG1	i-5814a150	m1.small	us-west-2b				None	00	54.186.97.129	
nst	ance:	(Barracuc	la-WAF) Privat	te IP: 1	Launch More Like Th	is	000				
					Instance State	•	Start				
De	scription	Status Checks	Monitoring	Tags	Instance Settings	•	Stop				
		Instance ID	104440		Image		Reboot	Put	lic DNS	-	
		Instance state	stopped		Networking		Terminate	P	ublic IP		
		Instance type	m3.medium		CloudWatch Monitori	ng 🕨			lastic IP		
		Private DNS	.u	s-west-2.compute.in	ternal	_		Availabil	ity zone	us-west-2a	
		Private IPs	120-1212-120					Security	groups	all_ports . view rules	
	Secon	dary private IPs	19.00.00					Scheduled	l events	-	
		VPC ID	vpc-						AMI ID	Landonetworks (2710) (001-001-111) (001-00	
		Subnet ID	subnet-					F	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

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- 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

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