

AWS Essentials Assignment -2

Working with EBS (Elastic Block Storage) Volumes. Create a new custom volume and attaching to an existing instance

- Select the Volumes from the Elastic block store options in the EC2 console

The screenshot shows the AWS Management Console interface. On the left, the navigation sidebar is visible with the 'Elastic Block Store' section expanded, and the 'Volumes' link is circled in red. A red arrow points from this link to the 'Volumes' entry in the 'Resources' table on the right. The 'Resources' table lists various EC2 resources in the US East (Ohio) Region:

Resource	Count
Instances (running)	1
Dedicated Hosts	0
Elastic IPs	0
Instances	1
Key pairs	5
Load balancers	0
Placement groups	0
Security groups	2
Snapshots	0
Volumes	1

- We can see that one volume is already existing . For creating a new volume click on the “Create Volume”.

The screenshot shows the 'Create Volume' page in the AWS Management Console. The left sidebar shows the navigation menu with 'Elastic Block Store' expanded and 'Volumes' selected. The main content area shows the 'Create Volume' button and a table of existing volumes. The table has columns for Name, Volume ID, Size, Volume Type, IOPS, Throughput, and Snapshots. One volume is listed with ID 'vol-09c397d3...' and size '8 GiB'.

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshots
	vol-09c397d3...	8 GiB	gp2	100	-	snap-0...

- Select Volume type as “General purpose SSD”, change the size, and select the Availability Zone similar to the existing instance that we are going to attach this Volume. Then Click on Create Volume.

aws

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Q

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[Alt+S]

SUNEER_AWS ▾

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Volumes > Create Volume

Create Volume

Volume Type

General Purpose SSD (gp2) ▾

i

Size (GiB)

100

(Min: 1 GiB, Max: 16384 GiB)

i

IOPS

300 / 3000

(Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS)

i

Throughput (MB/s)

Not applicable

i

Availability Zone*

us-east-2b ▾

i

Snapshot ID

Select a snapshot ▾

C

i

Encryption

☐ Encrypt this volume

Key

(128 characters maximum)

Value

(256 characters maximum)

This resource currently has no tags

Choose the Add tag button or [click to add a Name tag](#)

Add Tag

50 remaining

(Up to 50 tags maximum)

* Required

Cancel

Create Volume

- New Volume is successfully created. Now close and go back to Volumes.

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Volumes > Create Volume

Create Volume

✔ Volume created successfully

Volume ID vol-05c426262d811a561

Close

- In Volumes , 2 Volumes are available and 1 is attached to the instance.

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information (SUNEER_AWS, Ohio). The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, and Instances. The main content area displays the 'Volumes' page with a 'Create Volume' button and an 'Actions' dropdown. A table lists two volumes:

Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Info
nap-0350fa19...	September 14, 2021 ...	us-east-2b	in-use	None	i-017206108c8c...
	September 14, 2021 ...	us-east-2b	available	None	

- To connect the new volume to the instance, select the volume and click on **Action -> Attach Volume**.

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Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshots
	vol-09c397d3...	8 GiB	gp2	100	-	snap-0...
	vol-05c42626...	100 GiB	gp2	300	-	

- Now Select the instance and click on **Attach** button.

Attach Volume

Volume ⓘ
vol-05c42626d811a561 in us-east-2b

Instance ⓘ
 in us-east-2b

Device ⓘ

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](#)

- Volume is successfully attached to the instance. Now we can see that the state of both volumes are “in-use”.

Create Volume **Actions** ⓘ

Filter by tags and attributes or search by keyword ⓘ

	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State
26...	100 GiB	gp2	300	-		September 14, 2021 ...	us-east-2b	in-use
d3...	8 GiB	gp2	100	-	snap-0350fa19...	September 14, 2021 ...	us-east-2b	in-use

Volumes: