EXPERIMENT-6:Create an Amazon Elastic Block Store (EBS) volume, attach it to an Amazon EC2

Steps:

Creating a New EBS Volume
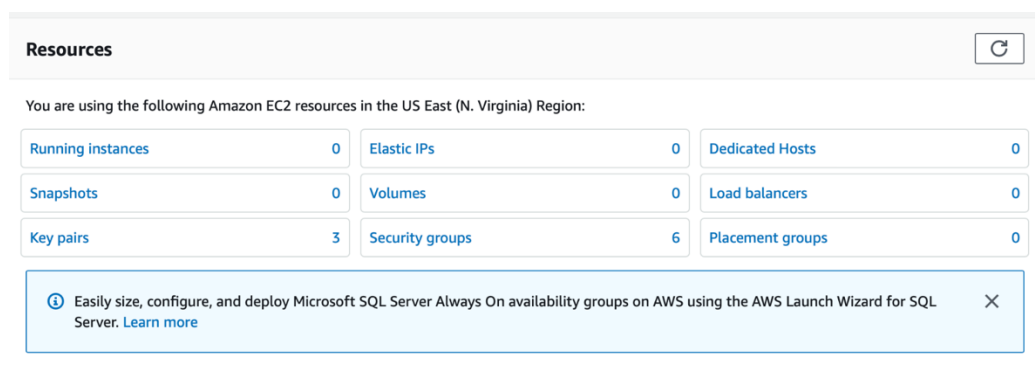
To create a new volume,

1. Login to an AWS account and select the desired region in the top right corner of the browser. Click on "Services" at the top left corner of the screen and select "EC2."

2. In the left navigation pane, under "EC2 Dashboard," locate the "Elastic Block Store" subsection and select "Volumes." A dialog displays. Click "Create Volume".

3. In the pop-up window, customize the volume (type, size, IOPS or throughput), select the desired Availability Zone, and decide whether or not to use encryption. Click "Create".

2. Attach an EBS Volume to an EC2 Instance

To attach an EBS volume to an Amazon EC2 instance, right-click it and select "Attach". Please note that the volume will need to be formatted inside the operating system being used.

Screenshots:

You do not have any EBS volumes in this region.

Click the Create Volume button to create your first volume.

Create Volume

Volume Type	General Purpose SSD (gp2) ▼ ⓘ	
Size (GiB)	100	(Min: 1 GiB, Max: 16384 GiB) ⓘ
IOPS	300 / 3000	(Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS) ⓘ
Availability Zone*	us-east-1a ▼ ⓘ	
Throughput (MB/s)	Not applicable ⓘ	
Snapshot ID	Select a snapshot ▼ C ⓘ	
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**

Create Volume

✔ **Volume created successfully**

Volume ID   vol-05e55d0312dcc6e59

Close

Create Volume   Actions ▾

🔍 Filter by tags and attributes or search by keyword

☑	Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitori
☑		vol-05e55d0...	100 GiB	gp2	300		November 26, 2019...	us-east-1a	● available	None	🖉	

Create Volume   Actions ▾

🔍 Filter by tags and attributes or search by keyword

☑	Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitori
☑		vol-05e55d0...	100 GiB	gp2	300		ember 26, 2019...	us-east-1a	● available	None	🖉	

Modify Volume
Create Snapshot
Delete Volume
Attach Volume
Detach Volume
Force Detach Volume
Change Auto-Enable IO Setting
Add/Edit Tags

Attach Volume   ✕

Volume	ⓘ	vol-05e55d0312dcc6e59 in us-east-1a
Instance	ⓘ	i-0acbccfd9bb0bd93d in us-east-1a
Device	ⓘ	i-0acbccfd9bb0bd93d (stopped)

Cancel   **Attach**

Attach Volume

Volume (i)   vol-05e55d0312dcc6e59 in us-east-1a

Instance (i)   `i-0acbccfd9bb0bd93d`   in us-east-1a

Device (i)   `/dev/sdf`

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**

Attach Volume

Volume (i)

vol-05e55d0312dcc6e59 in us-east-1a

Instance (i)

`i-0acbccfd9bb0bd93d`   in us-east-1a

Device (i)

`/dev/xvda`

Attach

Launch Instance ▾   Connect   Actions ▾

🔍 Filter by tags and attributes or search by keyword   1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Na
	i-0acbccfd9bb0bd93d	t2.micro	us-east-1a	🟢 running	⧗ Initializing	None	ec2-54-165-150-70.co...	54.165.150.70	-	sgoyal