

# AWS Solutions Architect Training

## Assignment 2: EC2 and EBS Assignment

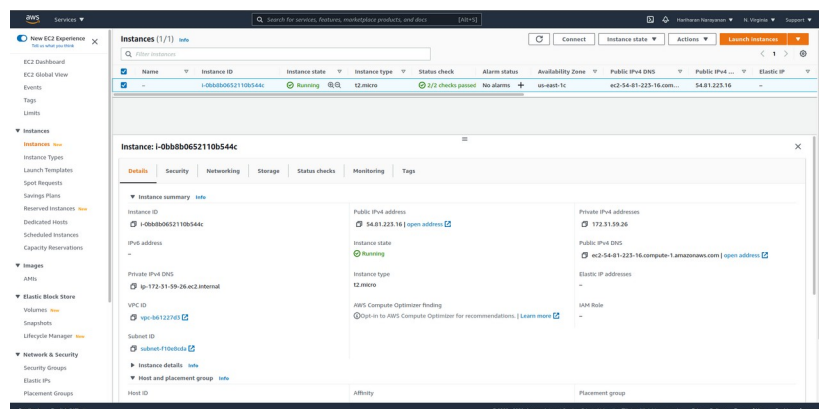
### Instructions

1. Launch a Linux EC2 instance
2. Create an EBS volume with 20gb of storage and attach it to the created EC2 instance.
3. Resize the attached volume and make sure it reflects in the connected instance.

### Implementation

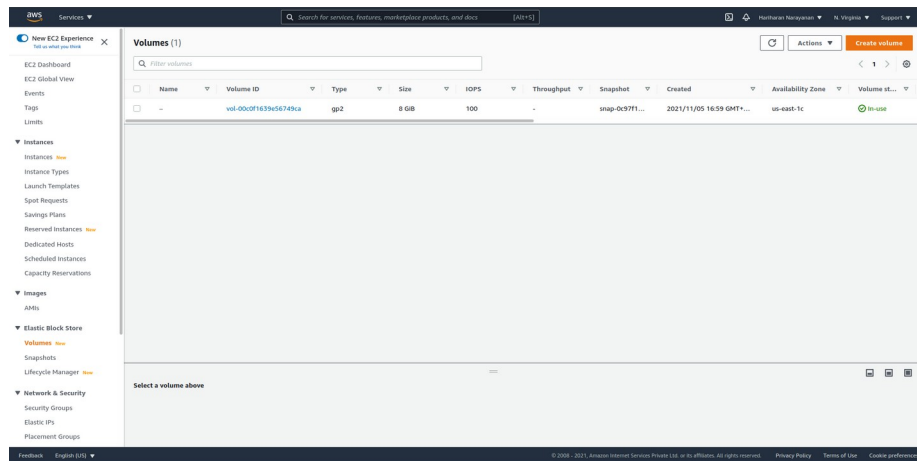
1. Launching an EC2 instance

An Ubuntu VM was already created as a new EC2 instance as part of Assignment-1. I reused the same instance for this assignment.

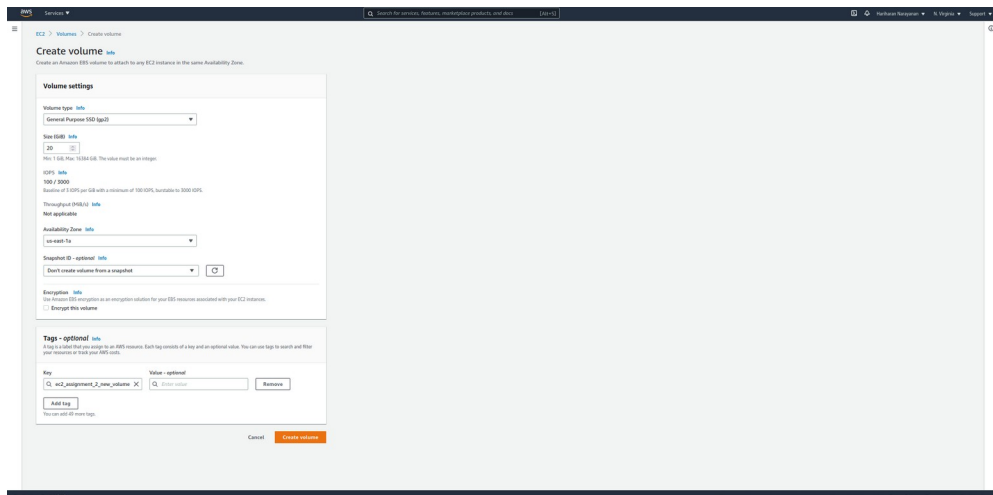


## 2 Creating an EBS volume of size 20gb

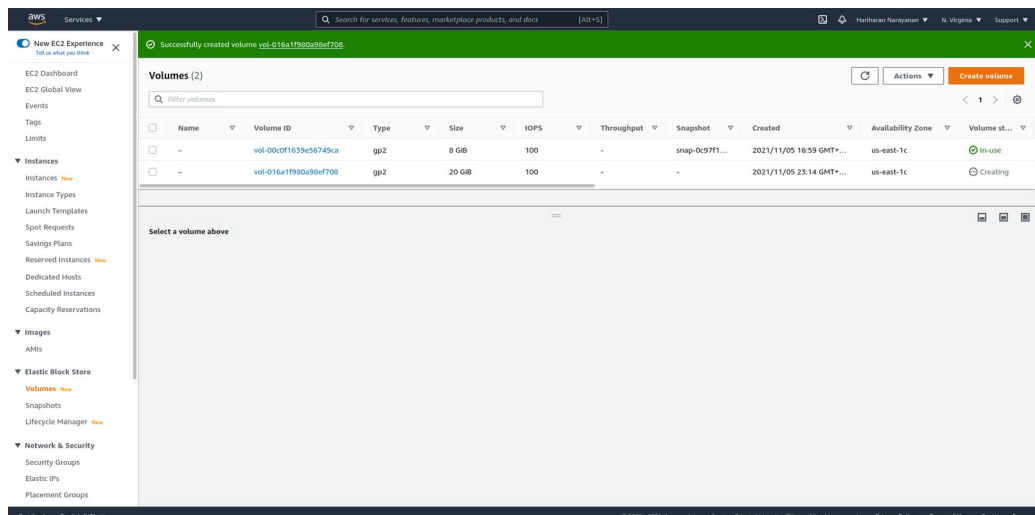
### 2.1 Open *Volumes* Window in AWS console. Verify that default volume is present.



### 2.2 Create new volume by clicking on “Create Volume” button in above image.

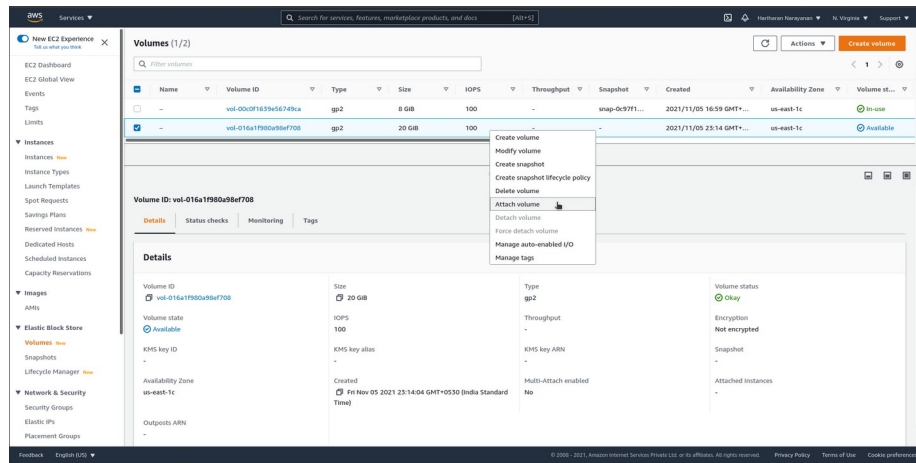


### 2.3 Verify in *Volumes* window that new volume is created. Wait until it's *Volume Status* value changes to *Available*.

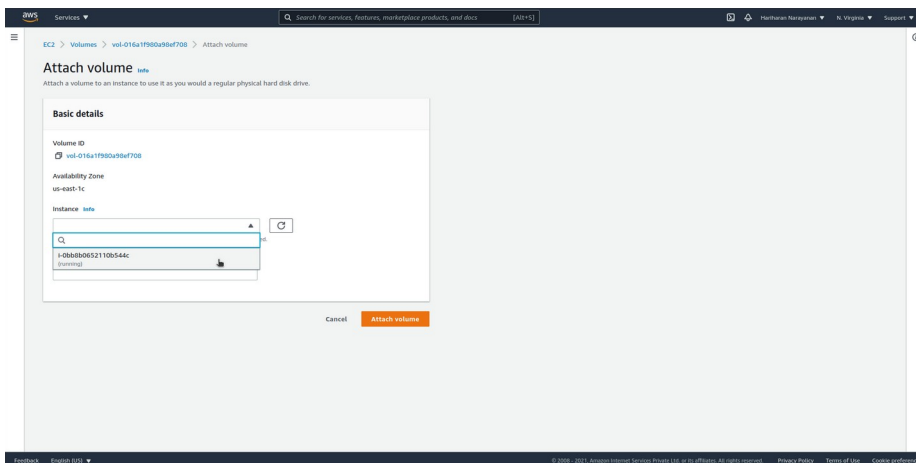


### 3 Attaching the EBS volume to the EC2 instance created in (1)

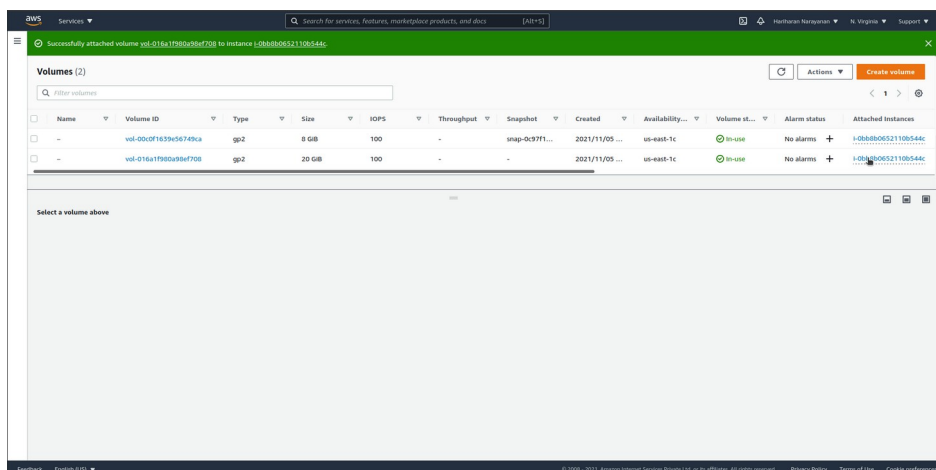
#### 3.1 Right-click on the 20gb volume in *Volumes* window. Select *Attach Volume*.



#### 3.2 Select the instance-id of the EC2 instance from the drop-down list created in (1). Leave the device name to the default value of */dev/sdf*. Select *Attach Volume*.

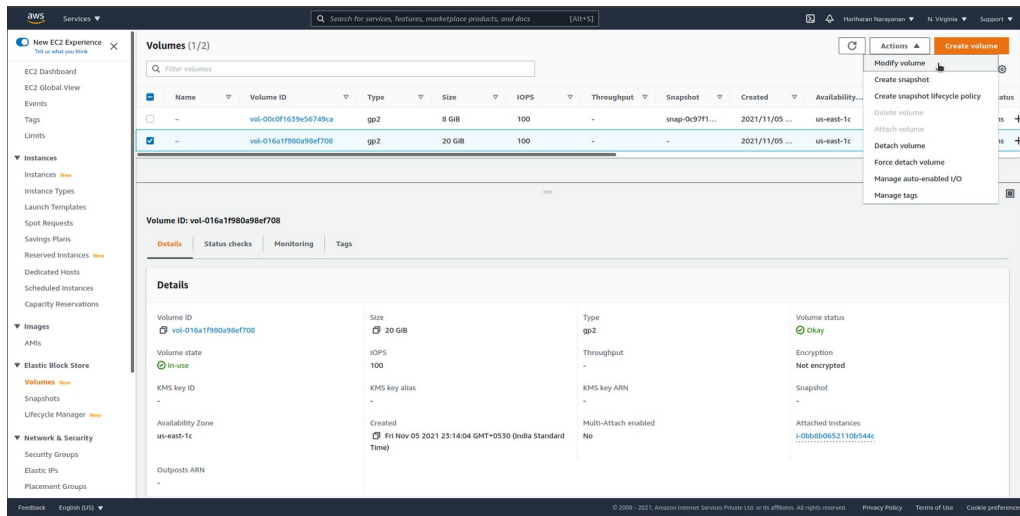


#### 3.3 Go back to Volumes window and validate that new 20gb volume is attached to the same instance (refer column Attached Instances) as selected.

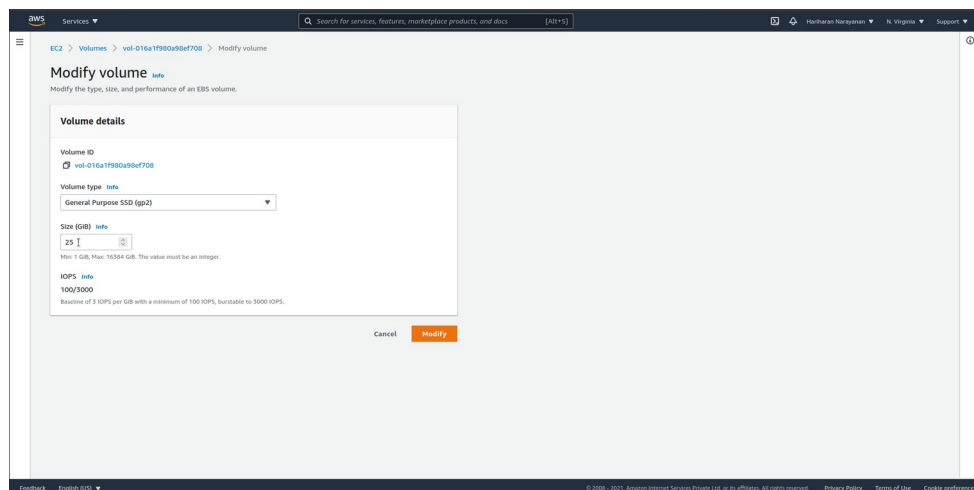


## 4 Resizing the volume

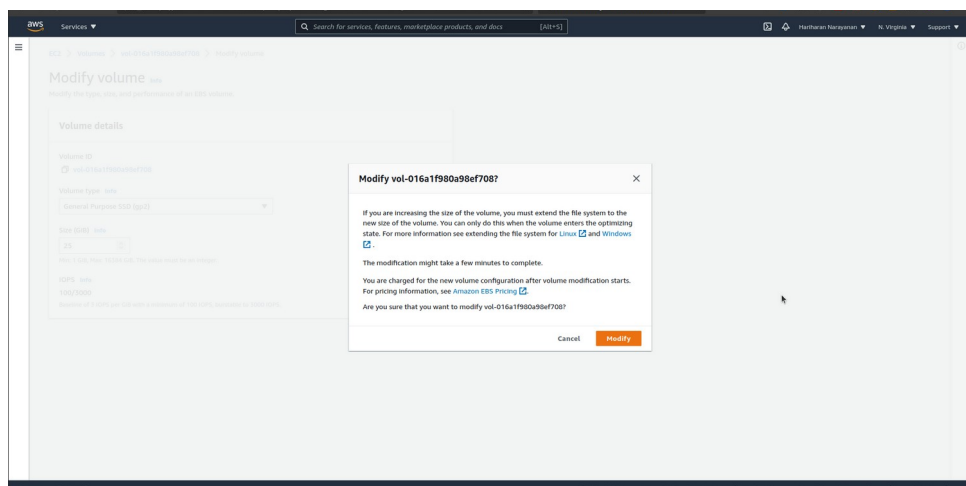
### 4.1 Select the new 20gb volume created in (3) and select *Actions > Modify Volume*.



### 4.2 In the *Modify Volume* window, change size to 25gb and select *Modify*.

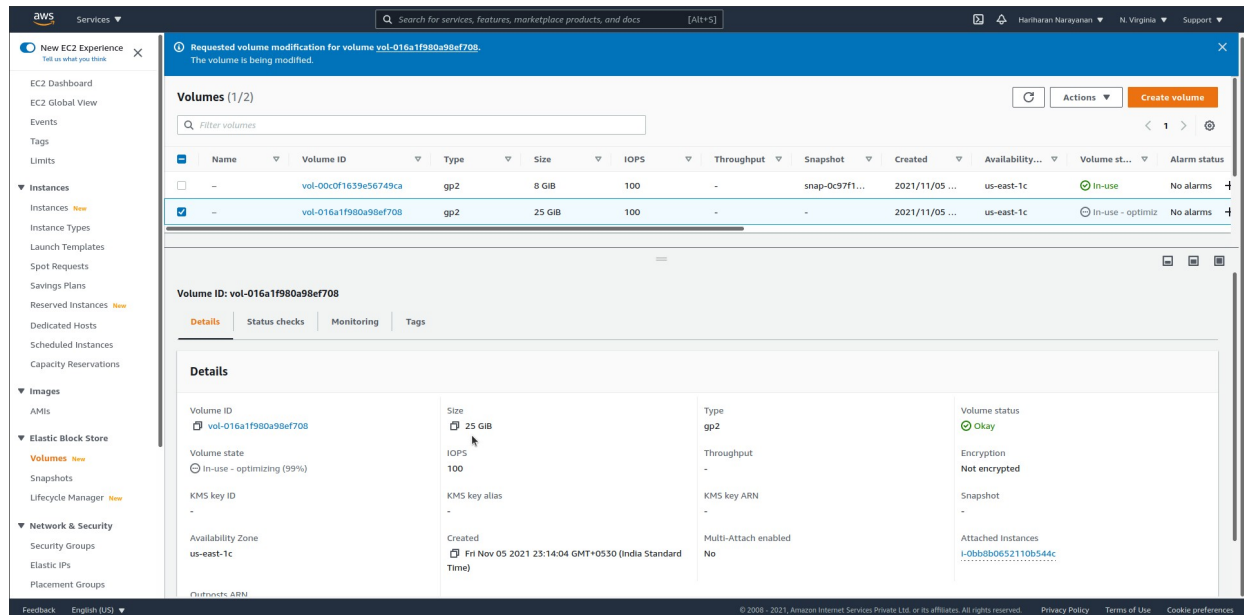


### 4.3 Click *Modify* in the new pop-up window.



## 5 Validating that the new size reflects in the connected instance

### 5.1 Open *Volumes* window and verify that the new size (25gb) is reflecting correctly.



**Requested volume modification for volume vol-016a1f980a98ef708.**  
The volume is being modified.

**Volumes (1/2)**

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability...	Volume st...	Alarm status
-	vol-00c0f1639e56749ca	gp2	8 GiB	100	-	snap-0c97f1...	2021/11/05 ...	us-east-1c	<span>in-use</span>	No alarms
<input checked="" type="checkbox"/>	vol-016a1f980a98ef708	gp2	25 GiB	100	-	-	2021/11/05 ...	us-east-1c	<span>in-use - optimiz</span>	No alarms

**Volume ID: vol-016a1f980a98ef708**

**Details**

Volume ID vol-016a1f980a98ef708	Size 25 GiB	Type gp2	Volume status <span>Okay</span>
Volume state <span>In-use - optimizing (99%)</span>	IOPS 100	Throughput -	Encryption <b>Not encrypted</b>
KMS key ID -	KMS key alias -	KMS key ARN -	Snapshot -
Availability Zone us-east-1c	Created Fri Nov 05 2021 23:14:04 GMT+0530 (India Standard Time)	Multi-Attach enabled No	Attached instances i-0bb8b0652110b544c

This is the end of the assignment.