

Note

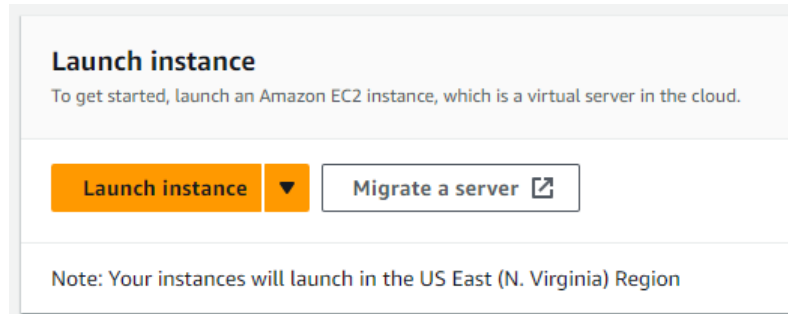
Problem Statement:

You work for XYZ Corporation. Your corporation wants to launch a new web-based application using AWS Virtual Machines. Configure the resources accordingly with appropriate storage for the tasks.

Tasks To Be Performed:

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

I'll log in to my AWS account and go to **EC2 Dashboard** and click **Launch instance**.



I'll name the instance **Assig2** and keep the defaults

Instances (2) Info				
<input type="text" value="Find instance by attribute or tag (case-sensitive)"/>				
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type
<input type="checkbox"/>	Assig2	i-0a8921cdbcb8e882b	Running	t2.micro

To create an **EBS** I'll go to Elastic Block Store > Volumes > Create volume

I'll keep the default except for **Size** and click **Create Volume**



The Volume is ready


To attach the volume I select it and in Actions > Attach volume

I make sure I select the right instance

Attach volume [Info](#)

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details


Volume ID
 `vol-046de6403f24e5363`

Availability Zone
us-east-1a

Instance [Info](#)

i-0a8921cdbcb8e882b

▼




Only instances in the same Availability Zone as the selected volume are displayed.

Device name [Info](#)

/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume. /dev/sd[f-p] for data volumes.

 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`.

I'll connect to the instance using **EC2 Instance Connect** to check the newly attached **Volume** by running `lsblk`

```
[ec2-user@ip-172-31-38-152 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda        202:0    0   8G  0 disk
└─xvda1      202:1    0   8G  0 part /
└─xvda127    259:0    0   1M  0 part
└─xvda128    259:1    0  10M  0 part
xvdf        202:80   0  20G  0 disk
[ec2-user@ip-172-31-38-152 ~]$
```

Shows `xvdf` with expected size of 20GB

Now we resize the Volume by going back to Elastic Block Store > Volumes > Actions > Modify volume .

Size (GiB) [Info](#)

30

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)

100/3000

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

Cancel

Modify

We change it to 30Gib

We wait for the changes to complete. Progress shown in column Volume State.

Then I check again in the EC2 instance

```
[ec2-user@ip-172-31-38-152 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda        202:0    0   8G  0 disk
├─xvda1     202:1    0   8G  0 part /
├─xvda127   259:0    0   1M  0 part
└─xvda128   259:1    0  10M  0 part
xvdf        202:80    0  30G  0 disk
```

We confirmed the new size is reflected