

## TASK 2 - EBS

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.

ANSWER:

1)

The screenshot displays the AWS Management Console interface. At the top, there's a navigation bar with 'Services', a search bar, and user information. The left sidebar shows the 'Instances' menu item selected. The main content area is titled 'Instances (1/1) Info'. It features a table with one instance listed: 'Task 2' with Instance ID 'i-03bf32902a94f5827', in a 'Running' state, of type 't2.micro'. Below the table, the 'Instance: i-03bf32902a94f5827 (Task 2)' details are shown in a card format. This card includes fields for Instance ID, Public IPv4 address (3.111.57.235), Private IPv4 addresses (172.31.15.22), Instance state (Running), Public IPv4 DNS (ec2-3-111-57-235.ap-south-1.compute.amazonaws.com), Hostname type (IP name: ip-172-31-15-22.ap-south-1.compute.internal), Private IP DNS name (ip-172-31-15-22.ap-south-1.compute.internal), Answer private resource DNS name (IPv4 (A)), and Instance type (t2.micro).

2)

Elastic block store volumes then click create volume

Select Availability Zone carefully

Select Availability zone where your instance is running

aws Services Search [Alt+S] Mumbai sasi

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events

▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Capacity Reservations

▼ Images  
AMIs  
AMI Catalog

▼ Elastic Block Store  
Volumes

Successfully created volume vol-0a18de54d63dbad95.

Volumes (2) Info

Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	<a href="#">vol-01c3a8d688386376c</a>	gp3	8 GiB	3000	125	snap-0318706...	2023/09/25 22:33 GMT+5:...
<input type="checkbox"/>	-	<a href="#">vol-0a18de54d63dbad95</a>	gp2	20 GiB	100	-	-	2023/09/25 22:40 GMT+5:...

Select a volume above

aws Services Search [Alt+S] Mumbai sasi

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

Basic details

Volume ID  
[vol-0a18de54d63dbad95](#)

Availability Zone  
ap-south-1b

Instance [Info](#)  
[i-03bf32902a94f5827](#)

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](#).

Cancel Attach volume

Click on attach the volume





```

[root@ip-172-31-15-22 my-data]# mkdir /20GBDRIVE
[root@ip-172-31-15-22 my-data]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M  2.9M  188M   2% /run
/dev/xvda1       8.0G  1.5G   6.5G  19% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128     10M   1.3M   8.7M  13% /boot/efi
tmpfs           95M    0   95M   0% /run/user/1000
[root@ip-172-31-15-22 my-data]# mount /dev/xvdf1 /20GBDRIVE/
[root@ip-172-31-15-22 my-data]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M  2.9M  188M   2% /run
/dev/xvda1       8.0G  1.5G   6.5G  19% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128     10M   1.3M   8.7M  13% /boot/efi
tmpfs           95M    0   95M   0% /run/user/1000
/dev/xvdf1       20G  156K   19G   1% /20GBDRIVE
[root@ip-172-31-15-22 my-data]#

```

aws Services Search [Alt+S]

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events

▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Capacity Reservations

▼ Images  
AMIs  
AMI Catalog

▼ Elastic Block Store  
Volumes

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Task 2	i-03bf32902a94f5827	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-3-111-57-23

Instance: i-03bf32902a94f5827 (Task 2)

▼ Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-01c3a8d688386376c	/dev/xvda	8	Attached	2023/09/25 22:33 GMT+5:30	No	-
vol-0a18de54d63dbad95	/dev/sdf	20	Attached	2023/09/25 22:42 GMT+5:30	No	-

▼ Recent root volume replacement tasks

3)

**Modify volume** [Info](#)

Modify the type, size, and performance of an EBS volume.

**Volume details**

Volume ID  
 vol-0a18de54d63dbad95 (my volume)

Volume type [Info](#)  
 General Purpose SSD (gp2)

Size (GiB) [Info](#)  
 40  
 Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)  
 120/3000  
 Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Cancel **Modify**

**Requested volume modification for volume vol-0a18de54d63dbad95.**  
 The volume is being modified.

**Volumes (2)** [Info](#)

Actions Create volume

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	<a href="#">vol-01c3a8d6f88386376c</a>	gp3	8 GiB	3000	125	snap-0318706...	2023/09/25 22:33 GMT+5:...
<input type="checkbox"/>	my volume	<a href="#">vol-0a18de54d63dbad95</a>	gp2	40 GiB	120	-	-	2023/09/25 22:40 GMT+5:...

Select a volume above

[illegible]

```
Last login: Mon Sep 25 17:13:35 2023 from 13.233.177.5
```

```
[ec2-user@ip-172-31-15-22 ~]$ sudo -i
```

```
[root@ip-172-31-15-22 ~]# df -h
```

```
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M    0   4.0M   0% /dev
tmpfs            475M    0   475M   0% /dev/shm
tmpfs            190M  2.9M  188M   2% /run
/dev/xvda1       8.0G  1.5G  6.5G  19% /
tmpfs            475M    0   475M   0% /tmp
/dev/xvda128     10M  1.3M  8.7M  13% /boot/efi
tmpfs            95M    0    95M   0% /run/user/1000
/dev/xvdf1       20G  156K   19G   1% /20GBDRIVE
[root@ip-172-31-15-22 ~]#
```