

# AWS Task-4

## Task Description:

Launch an EC2 instance (Linux and Windows) along with a web server. Then, create an EBS volume of 5 GB, attach it to an EC2 machine (Linux and Windows), and take a snapshot. Finally, create an EBS volume using the taken snapshot.

### 1) Launching an EC2 instance (Linux and Windows):

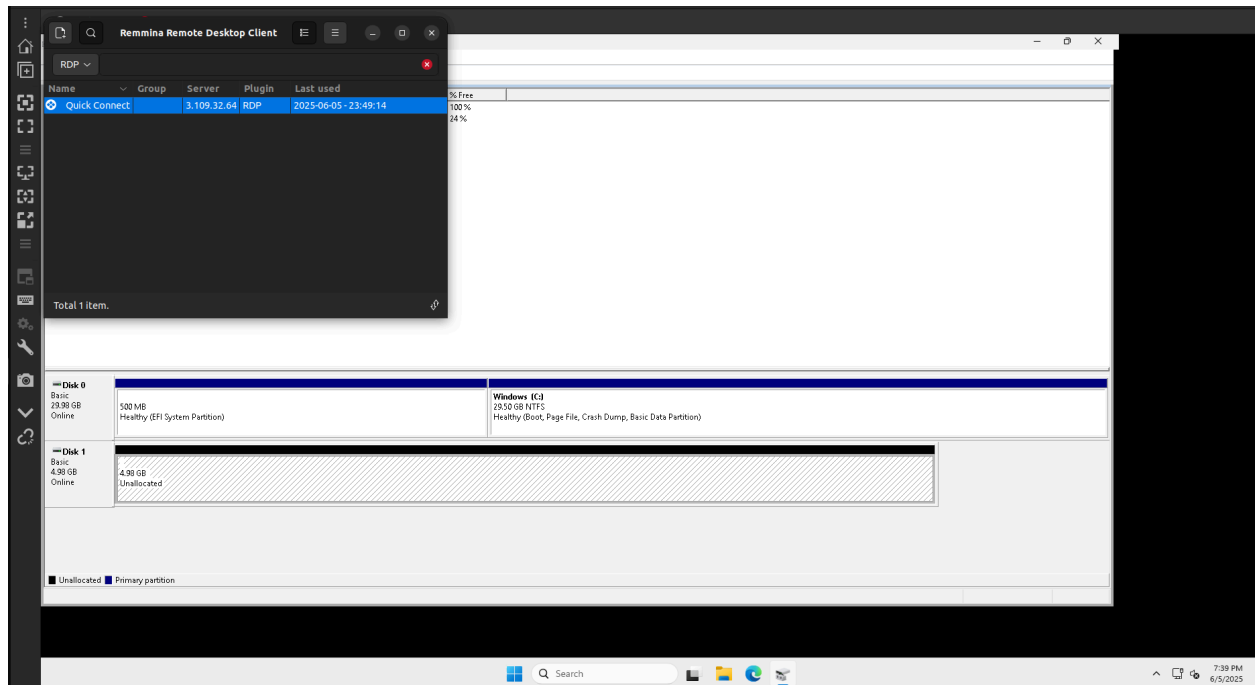
The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left sidebar shows the navigation menu with categories like EC2, Images, Elastic Block Store, Network & Security, and Load Balancing. The main content area is titled 'Instances (1/2)' and shows a table of running EC2 instances. Two instances are listed: 'Linux-web-ser...' and 'Windows-web-...'. Below the table, the details for the 'Linux-web-ser...' instance (ID: i-0bf89fe055f06a114) are shown, including its state (Running), instance type (t2.micro), and a list of attached EBS volumes. The volumes table shows two volumes: 'vol-0a33032d1eb184273' (8 GiB, /dev/xvda) and 'vol-0b4b1bf880154d1f0' (5 GiB, /dev/sdf). The bottom section shows 'Volume monitoring (0)' with a 'No widget on this dashboard' message.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP v4 DNS	Public IP v4 ...	Elastic
Linux-web-ser...	i-0bf89fe055f06a114	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-43-204-211-99.ap-...	43.204.211.99	-
Windows-web-...	i-0b51bf7b7bf009107	Running	t3.micro	3/3 checks passed	View alarms +	ap-south-1a	ec2-3-109-32-64.ap-so...	3.109.32.64	-

Volume ID	Device name	Volume size (GiB)	Volume State	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0a33032d1eb184273	/dev/xvda	8	In-use	Attached	2025/06/05 19:54 GMT+5:30	No	-
vol-0b4b1bf880154d1f0	/dev/sdf	5	In-use	Attached	2025/06/05 23:40 GMT+5:30	No	-

## Windows Web Server:



## Linux Web Server:

```
ec2-user@ip-172-31-4-248 ~]$ sudo systemctl status httpd
[ec2-user@ip-172-31-4-248 ~]$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Thu 2025-06-05 14:28:39 UTC; 5h 10min ago
     Docs: man:httpd.service(8)
   Main PID: 3898 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
    Tasks: 177 (limit: 1111)
   Memory: 13.0M
     CPU: 10.568s
   CGroup: /system.slice/httpd.service
           └─3898 /usr/sbin/httpd -DFOREGROUND
             └─3999 /usr/sbin/httpd -DFOREGROUND
               └─4005 /usr/sbin/httpd -DFOREGROUND
                 └─4006 /usr/sbin/httpd -DFOREGROUND
                   └─4007 /usr/sbin/httpd -DFOREGROUND

Jun 05 14:28:39 ip-172-31-4-248.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Jun 05 14:28:39 ip-172-31-4-248.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Jun 05 14:28:39 ip-172-31-4-248.ap-south-1.compute.internal httpd[3898]: Server configured, listening on: port 80
[ec2-user@ip-172-31-4-248 ~]$
```

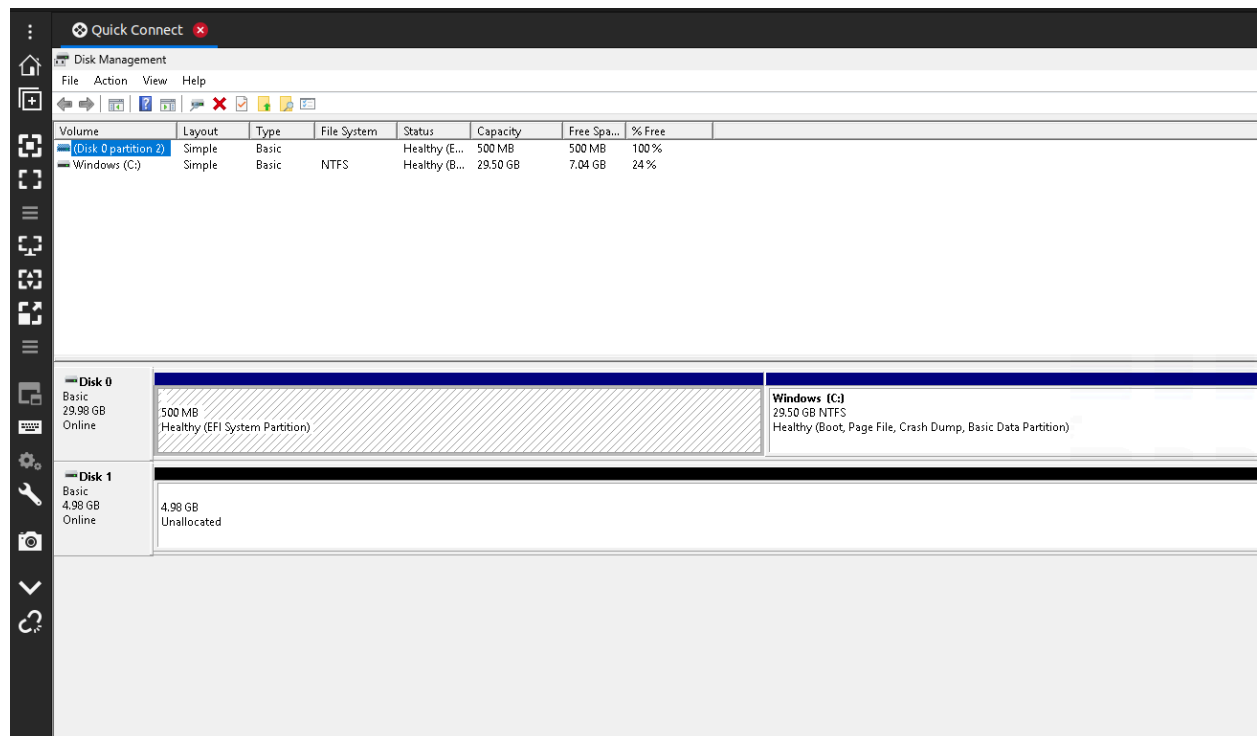
## 2) Creating an EBS volume of 5 GB:

Volumes (5) <span>Info</span>											
Last updated less than a minute ago <span>Actions</span> <span>Create volume</span>											
Saved filter sets <span>Choose filter set</span> <span>Search</span>											
<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state	AL
<input type="checkbox"/>		vol-0223d584f094ff941	gp3	5 GiB	3000	125	-	2025/06/05 23:41 GMT+5:...	ap-south-1a	<span>In-use</span>	Nc
<input type="checkbox"/>		vol-0a33032d1eb184273	gp3	8 GiB	3000	125	snap-07196e6...	2025/06/05 19:54 GMT+5:...	ap-south-1b	<span>In-use</span>	Nc
<input type="checkbox"/>		vol-08794517502b323d	gp3	30 GiB	3000	125	snap-068c3d5...	2025/06/05 19:55 GMT+5:...	ap-south-1a	<span>In-use</span>	Nc
<input type="checkbox"/>		vol-0a44c4df07273029b	gp3	12 GiB	3000	125	snap-0803180...	2025/06/05 23:57 GMT+5:...	ap-south-1a	<span>Available</span>	Nc
<input type="checkbox"/>		vol-0b4b1bf880154d1f0	gp3	5 GiB	3000	125	-	2025/06/05 23:36 GMT+5:...	ap-south-1b	<span>In-use</span>	Nc

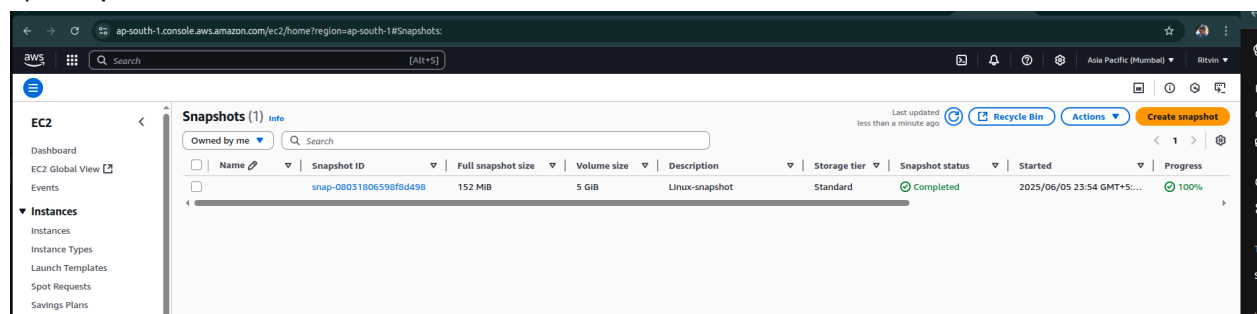
Attaching EBS volume to linux machine:

```
[ec2-user@ip-172-31-4-248 ~]$ 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 /boot/efi
└─xvdf      202:80   0    5G  0 disk /data
```

Attaching EBS volume to windows machine:



3) Snapshot creation:



4) EBS volume creation using the taken snapshot.

Volumes (5)

Info

Last updated less than a minute ago

Actions

Create volume

Saved filter sets

Choose filter set

Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state	Al
<input type="checkbox"/>		vol-0223d584f094ff941	gp3	5 GiB	3000	125	-	2025/06/05 23:41 GMT+5:...	ap-south-1a	In-use	Nc
<input type="checkbox"/>		vol-0a33032d1eb184273	gp3	8 GiB	3000	125	snap-07196e6...	2025/06/05 19:54 GMT+5:...	ap-south-1b	In-use	Nc
<input type="checkbox"/>		vol-087945175022b323d	gp3	30 GiB	3000	125	snap-068c3d5...	2025/06/05 19:55 GMT+5:...	ap-south-1a	In-use	Nc
<input type="checkbox"/>		vol-0a44cfd07273029b	gp3	12 GiB	3000	125	snap-0803180...	2025/06/05 23:57 GMT+5:...	ap-south-1a	Available	Nc
<input type="checkbox"/>		vol-0b4b1bf880154d1f0	gp3	5 GiB	3000	125	-	2025/06/05 23:36 GMT+5:...	ap-south-1b	In-use	Nc