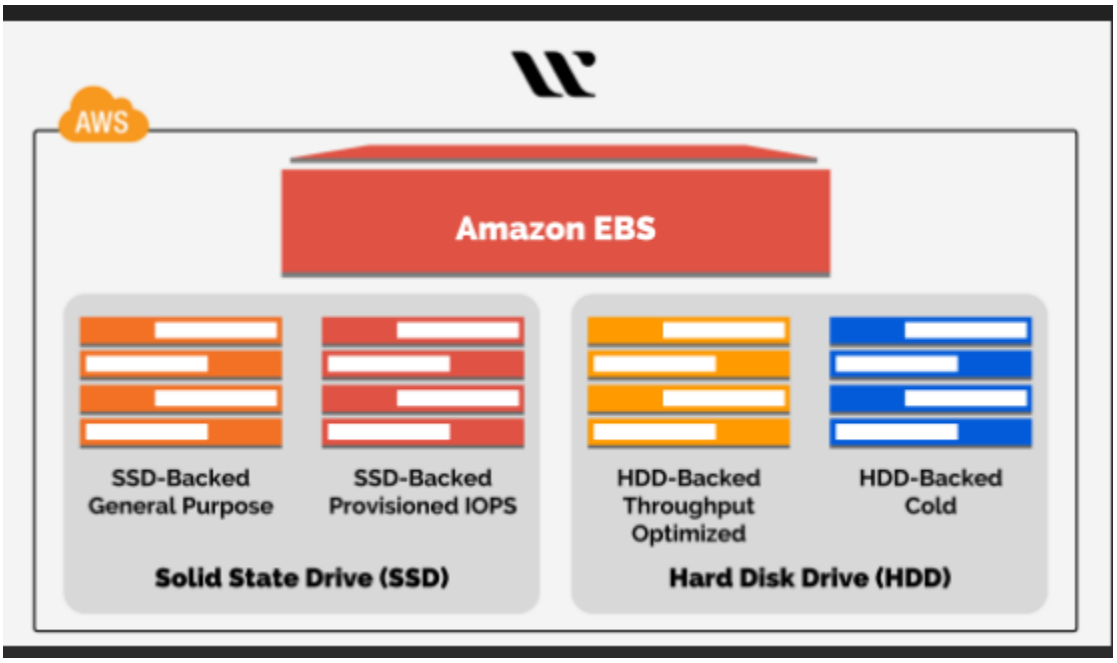
EBS[ELATIC BLOCK STORE]



What is EBS(Elastic Block Store) in AWS

- AWS EBS is a cloud-based storage services that provides durable, high-performance block storage for use with Amazon EC2 instances.
  It works like a virtual hard drive, allowing you to store and access data even when your EC2 instances are stopped or terminated.
- Amazon EBS is a block storage services designed to be used with EC2(Elastic Compute Cloud) instances. It provides persistent storage volumes that can be attached to EC2 instances.
- This service is used for hosting database (e.g., MySQL, PostgreSQL), storing files and logos with durability, taking automatic backups using snapshots.

Lab Steps

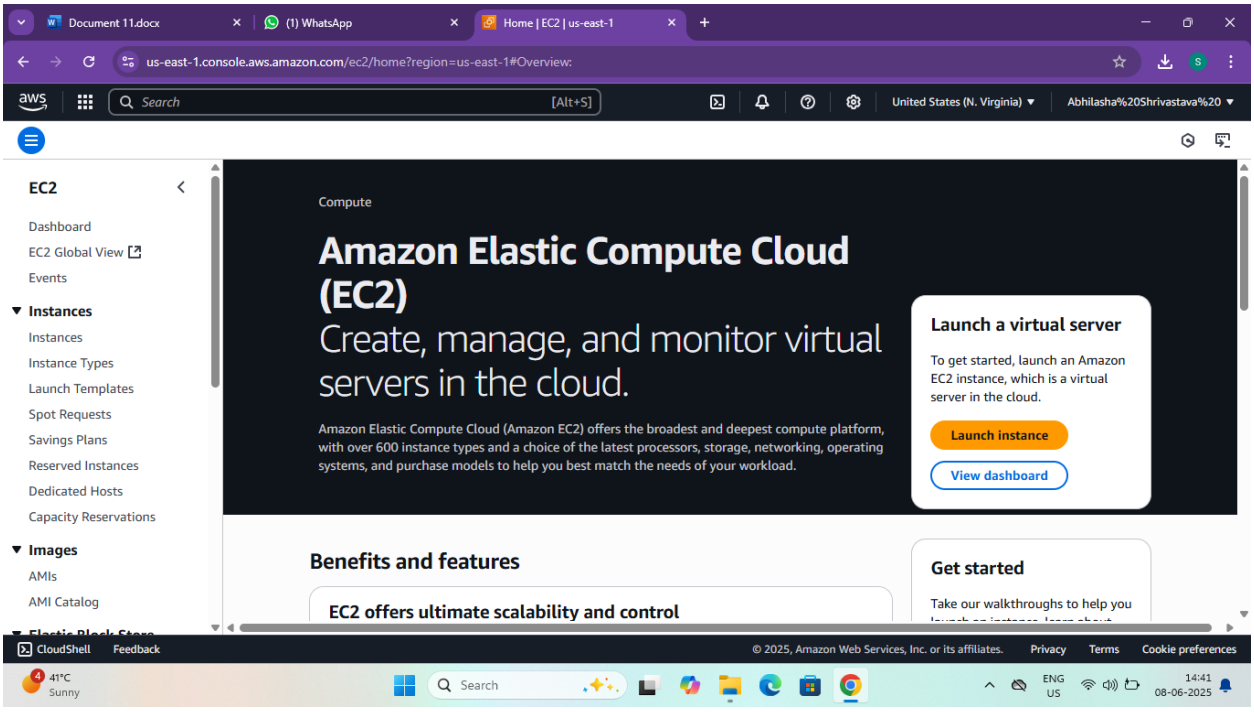
Task 1: Sign in to AWS Management Console

1. Click on the open console button, and you will get redirected to AWS console in a new browser tab.

2. On the AWS sign-in page,
    - Leave the Account ID as default. Never edit/remove the 12-digit Account ID present in the AWS console. Otherwise, you cannot proceed with the lab.
    - Now copy your username and password in the lab console to the IAM username and password in AWS console and click on the sign-in button.
3. Once signed in to the AWS Management Console, make the default AWS Region as US East (N. Virginia) us-east-1.

Task 2: Open EC2 Dashboard

1. In the AWS search bar, type EC2 and click on it.
2. You will enter the EC2 Dashboard.



Task 3: Launch an Instances

1. Click the “Launch Instances” button.
2. Fill out the following:

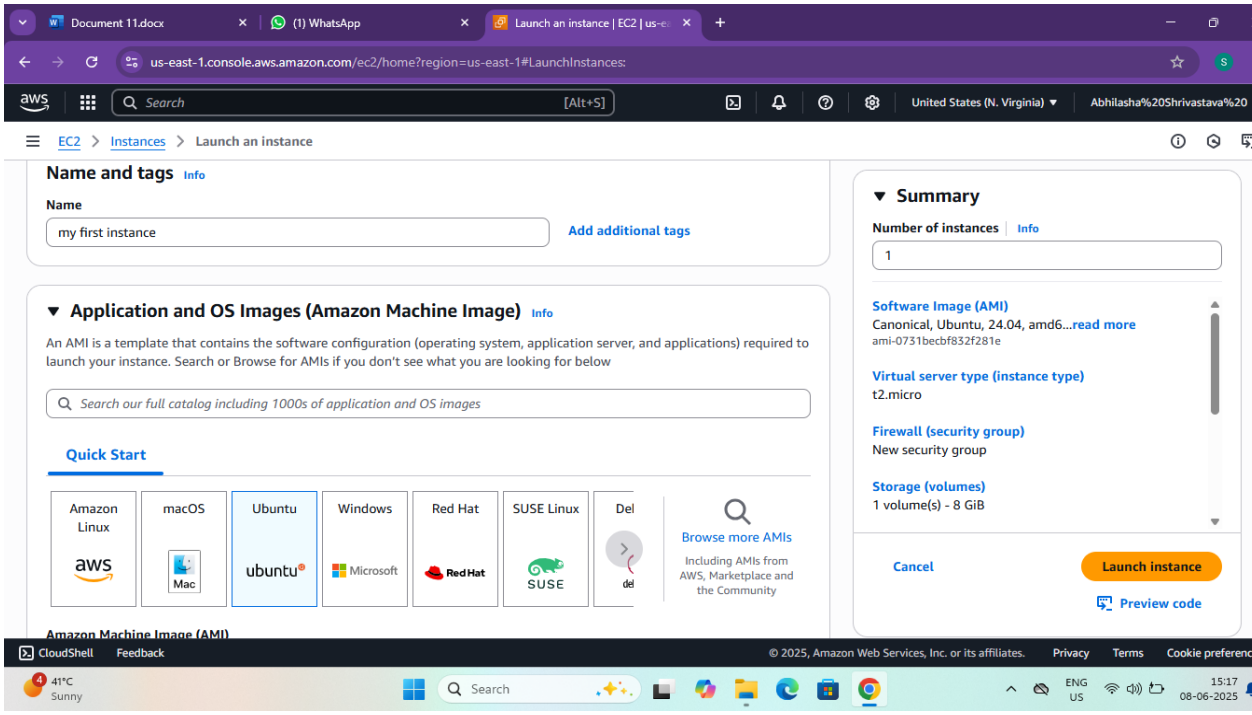
21. Name and Tags

- Give your instance a name (My first Instance).

2. Application and OS Images (AMI)

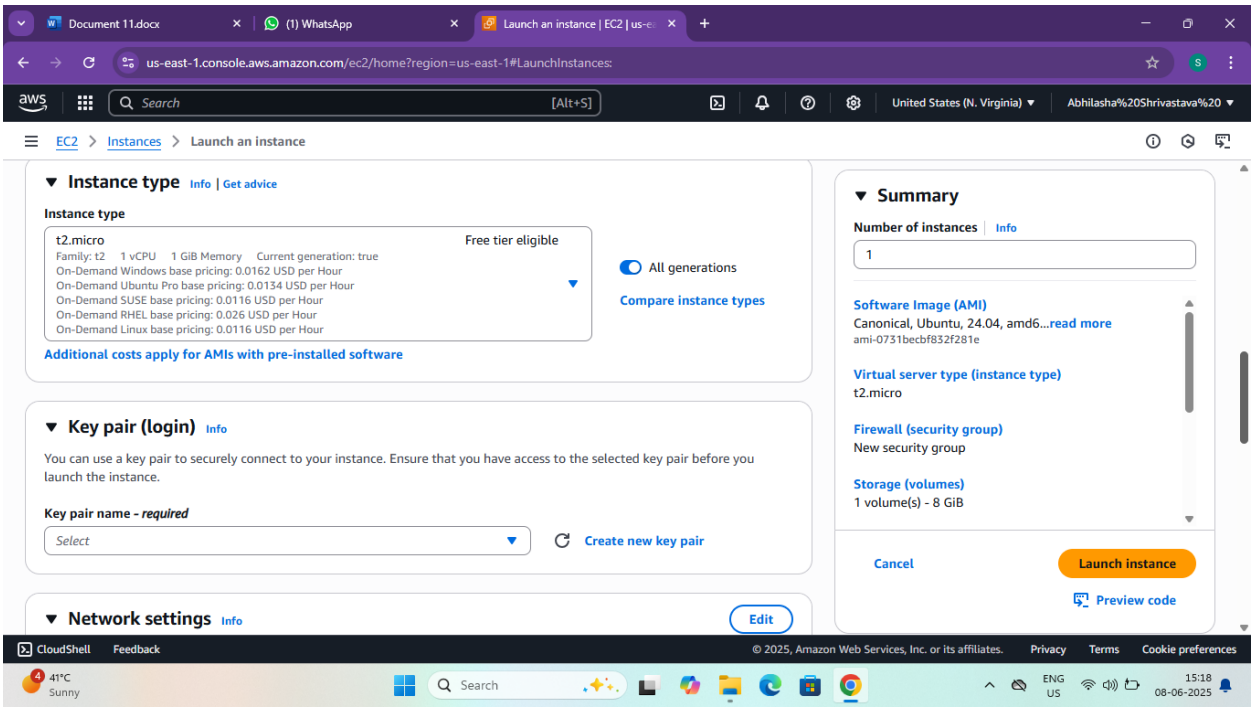
- Choose an AMI (Amazon Machine Image):

  - Example: ubuntu, windows etc.



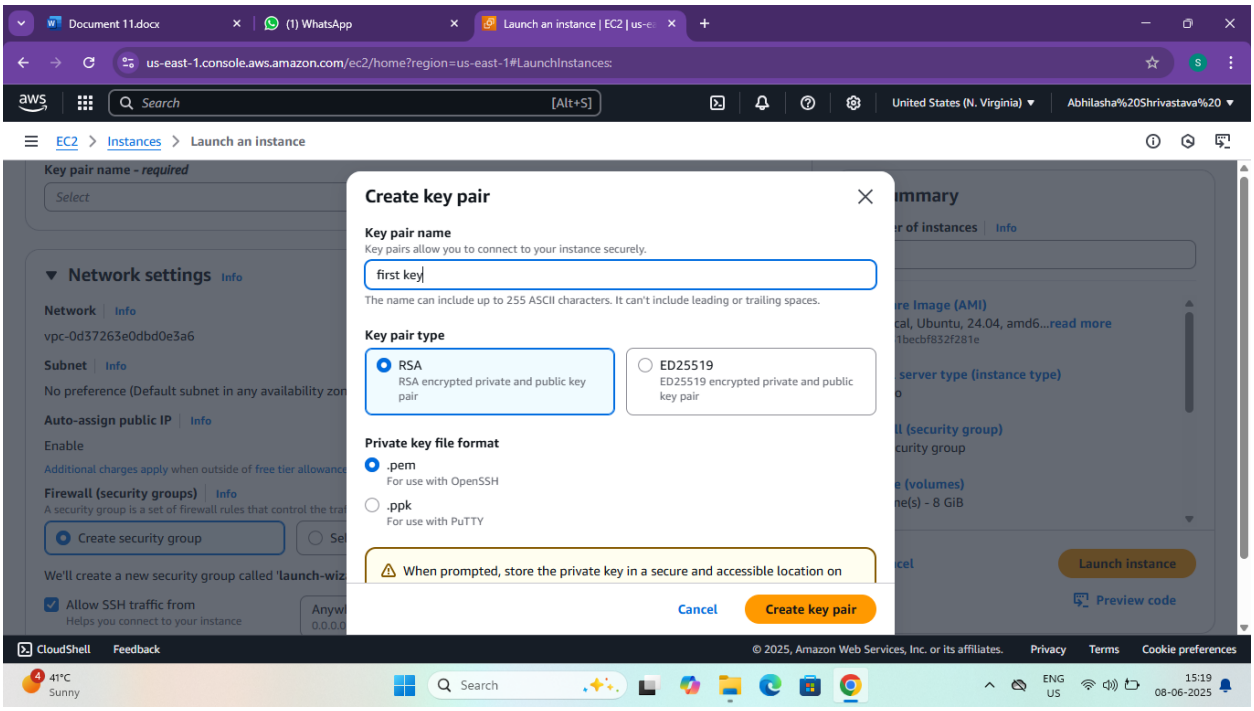
3.Instance Type

- Choose an Instances type (default is t2. micro- Free Tier eligible).



4. Key Pair (login)

- Create a new key pair (if you don't have one)
- Download the. pem file- this is needed for SSH access.



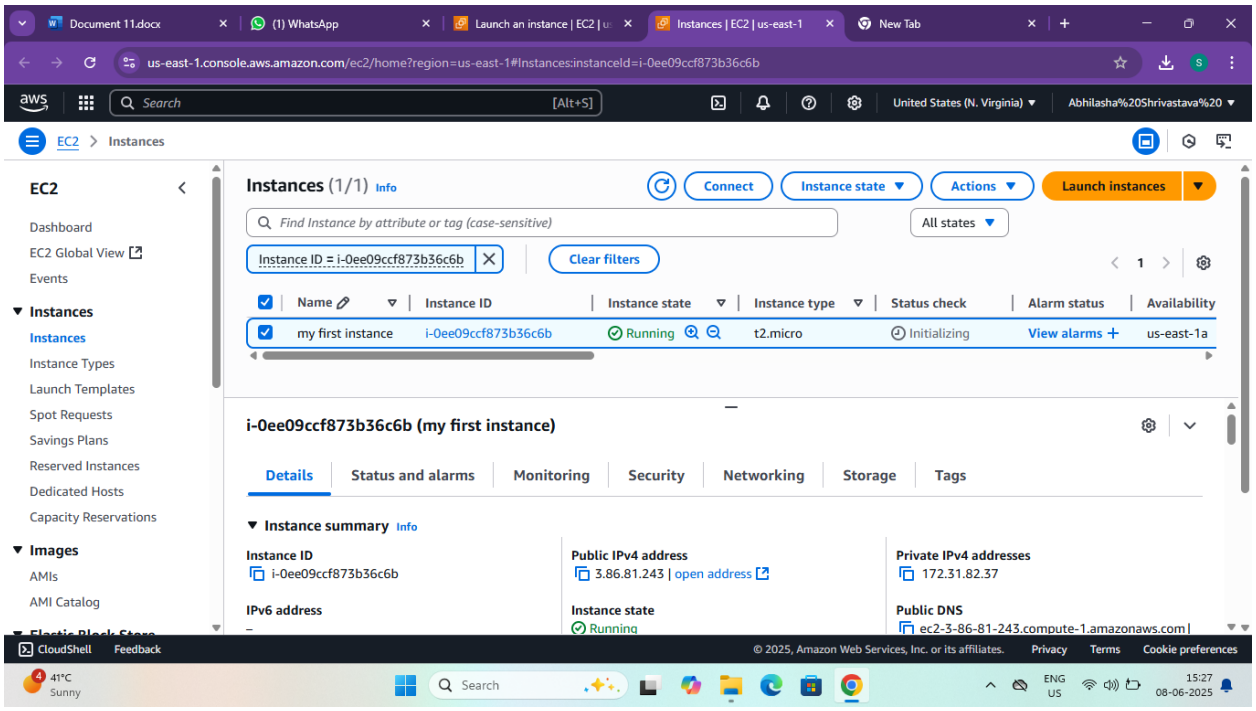
Task 4: Launch the Instance

1. Click “Launch Instances”.

Task 5: Connect to the Instances

For Linux:

1. Go to the Instances-> Select your Instances-> Connect.

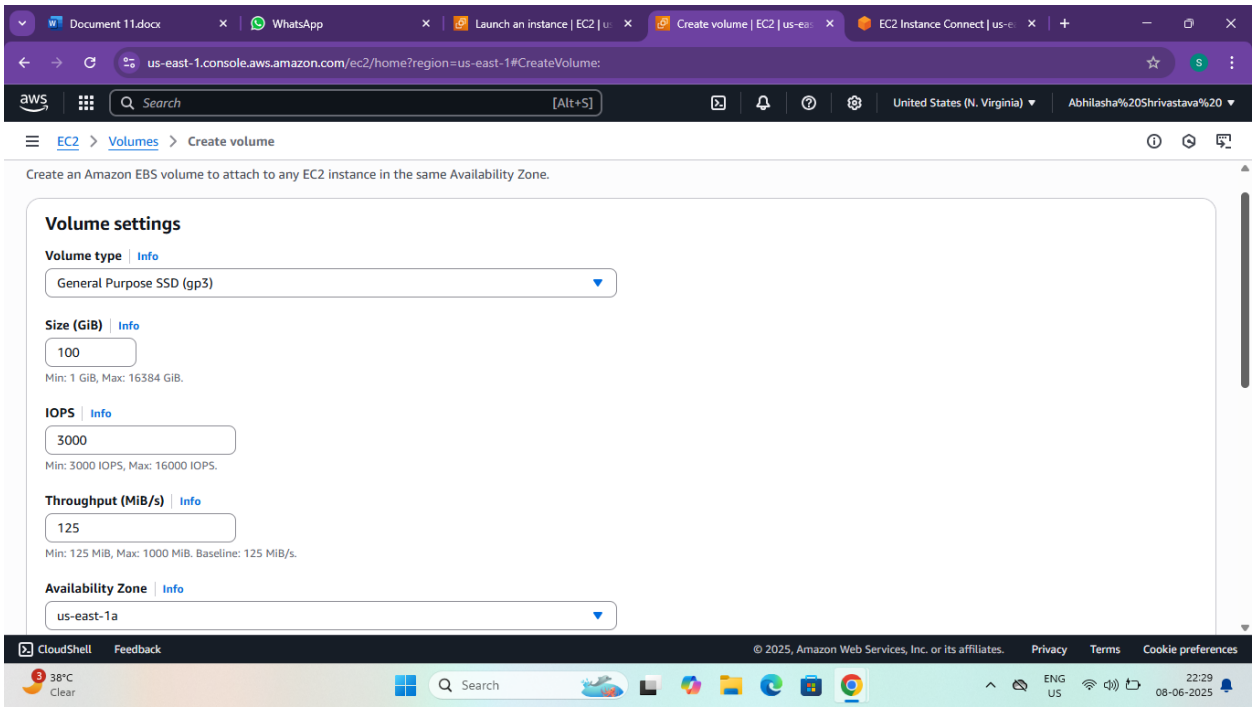


Task 6: Go to EC2 Dashboard

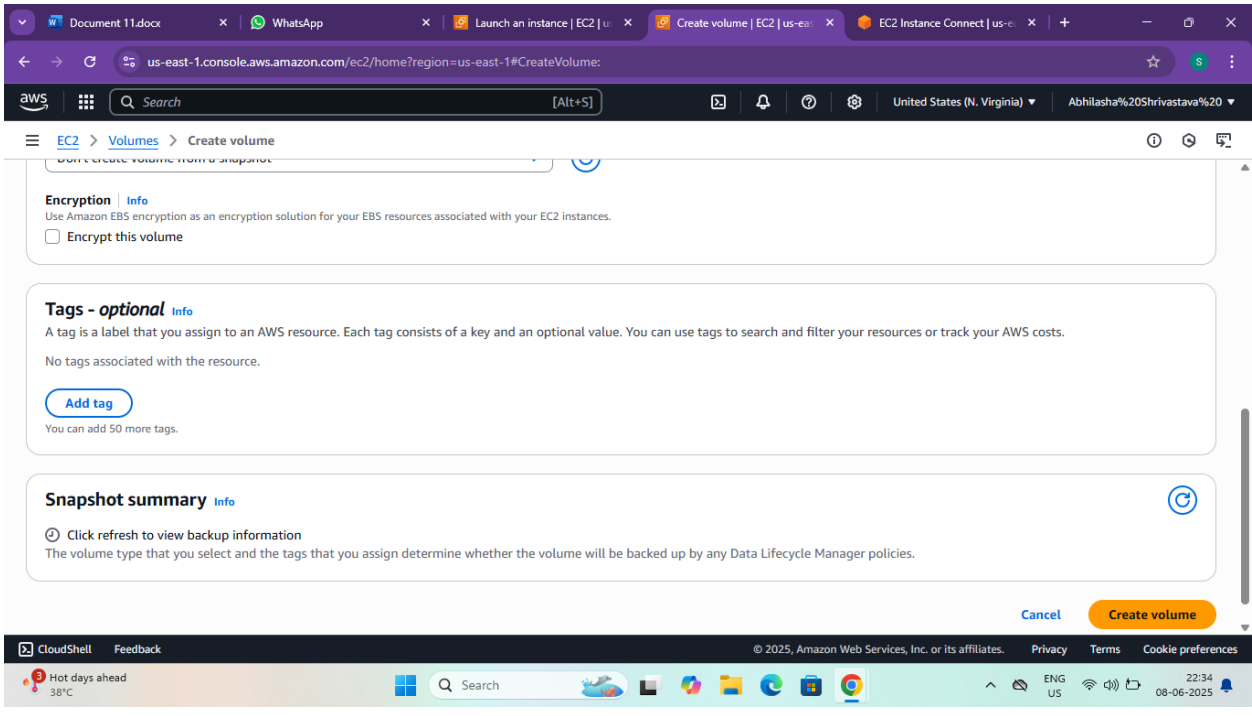
- In the AWS search bar, type “EC2” and select EC2.
- In the left menu, scroll to Elastic Block Store and click "volumes”.

Task 7: Create a volume

- Click the “create volume” button.
- Fill the following details:
  1. Volume type- gp3(general purpose SSD)
  2. Size-10 GiB (or more as needed)



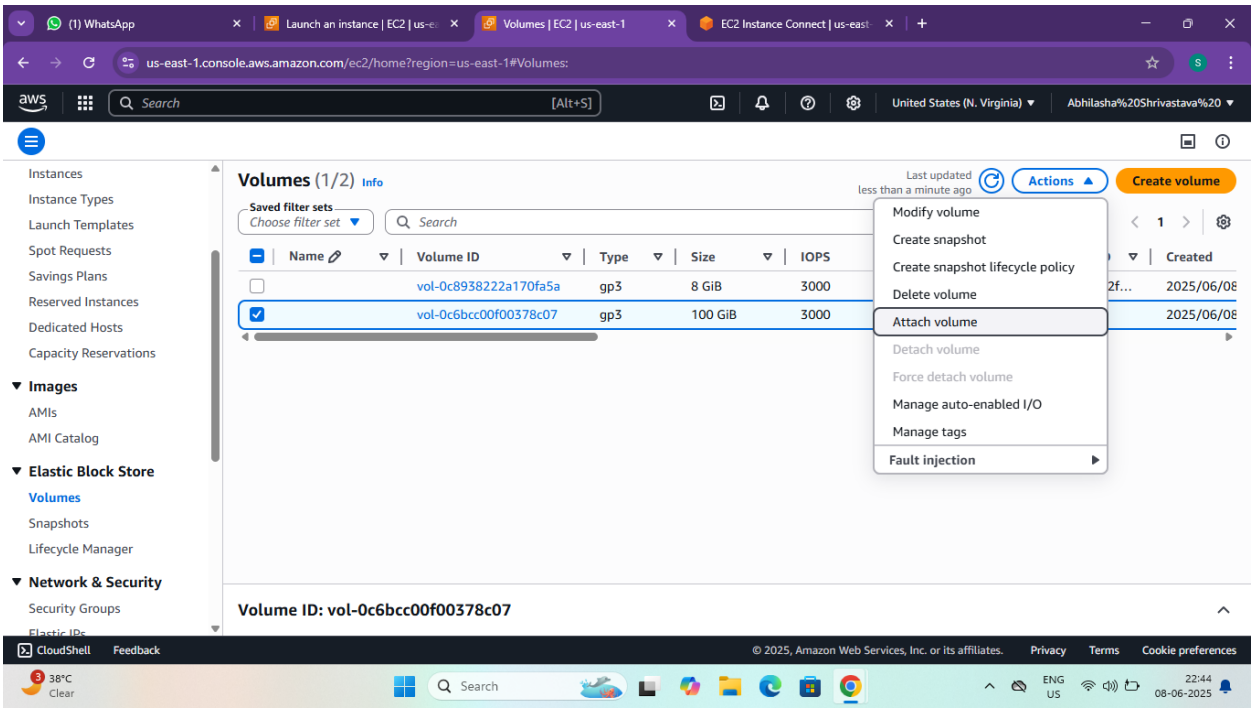
3. Availability Zone-Same as your EC2(e.g., us-east-1a)
4. Encrypted-Optional (choose if you want encryption)



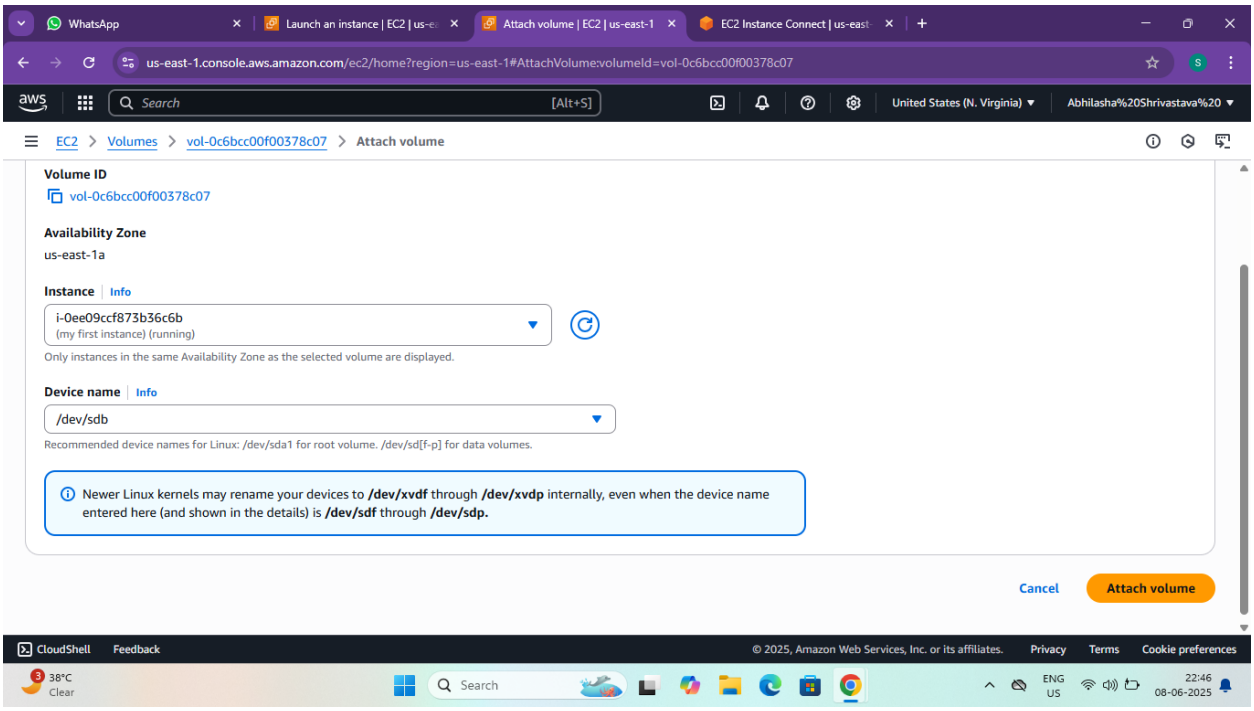
- Click create Volume.

Task 8: Attach Volume to EC2 Instance

1. After creation, Select the new volume.
2. Click Actions-> Attach volume.



3. Choose the EC2 instances (must be in the same availability zone).
4. Click Attach.


WhatsApp
Launch an instance | EC2 | us-e
Attach volume | EC2 | us-east-1
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AttachVolume:volumeId=vol-0c6bcc00f00378c07
Search
[Alt+S]
United States (N. Virginia)
Abhilasha%20Shrivastava%20
EC2 > Volumes > vol-0c6bcc00f00378c07 > Attach volume
Volume ID
vol-0c6bcc00f00378c07
Availability Zone
us-east-1a
Instance | Info
i-0ee09ccf873b36c6b
(my first instance) (running)
Only instances in the same Availability Zone as the selected volume are displayed.
Device name | Info
/dev/sdb
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
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
38°C
Clear
Search
ENG
US
22:46
08-06-2025