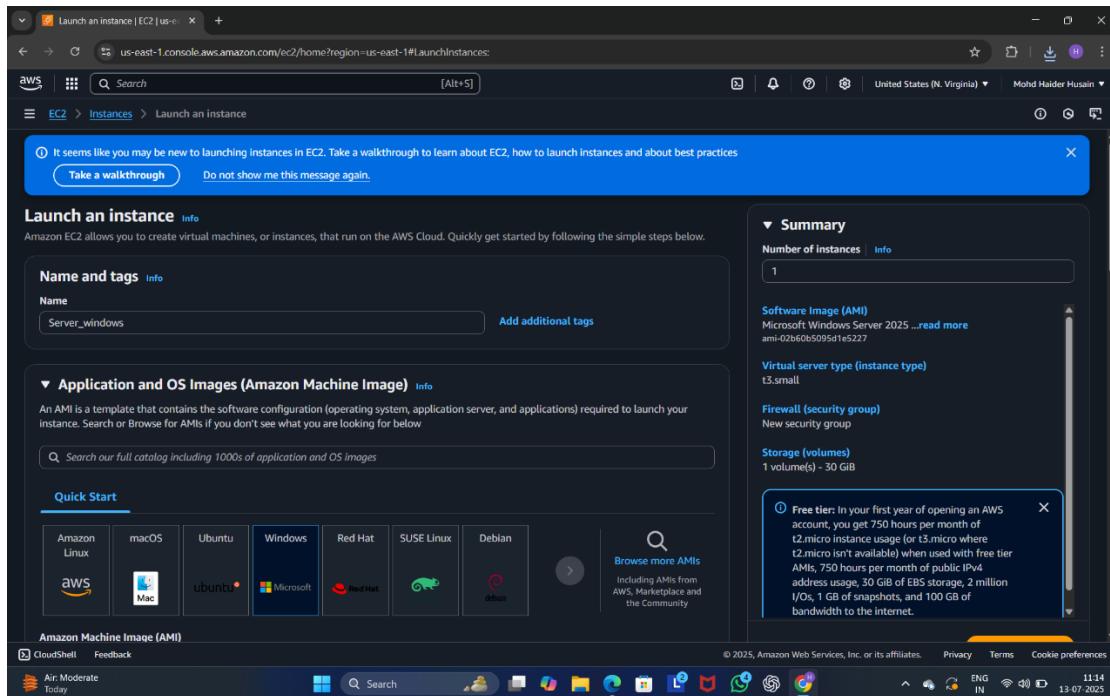


Copy EBS Snapshot to Another Region & Attach to New Instance

💡 Step-by-Step with Screenshot References

💡 Step 1: Launch Original EC2 Instance

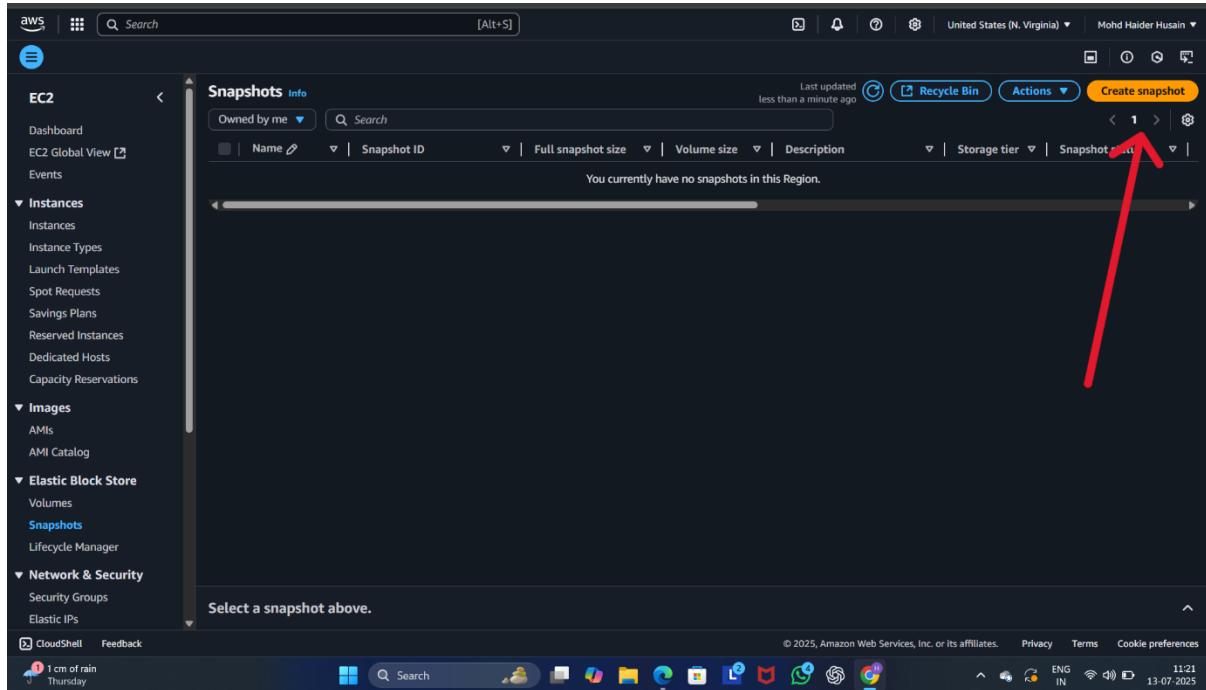


Launch a Windows EC2 instance in **N. Virginia (us-east-1)**.

- This creates an **EBS volume** automatically (e.g., 30 GiB).

💡 Step 2: Create Snapshot of EBS Volume

- Go to **EC2 > Snapshots** and click **Create snapshot**.
- You can select the option creation via instance(for multi-volumes) or a single volume , as per your choice



- Go to **EC2 > Snapshots** and click **Create snapshot**.
- Select the volume attached to your instance.

Step 3: Create Volume from Snapshot

- Go to **EC2 > Snapshots** in the region where the snapshot exists.
 - Select your desired snapshot from the list.
 - Click on Actions → Create volume from snapshot.
 - This will take you to the Create Volume page pre-filled with the snapshot ID.
- 💡 Ensure you choose the correct Availability Zone matching the instance you plan to attach it to later.**

Snapshots (1/1) Info

Last updated less than a minute ago

Owned by me

Search

Actions

Create snapshot

Create volume from snapshot

Create image from snapshot

Copy snapshot

Launch copy duration calculator

Delete snapshot

Manage tags

Snapshot settings

Archiving

Snapshot ID: snap-0b93bea1a50128245

Details Snapshot settings Storage tier Tags

Snapshot ID: snap-0b93bea1a50128245 Full snapshot size: 28.55 GiB Progress: 100% Snapshot status: Completed

Owner: 355746353093 Started: Sun Jul 13 2025 11:23:21 GMT+0530 (India Standard Time)

Description: - Product codes: - Fast snapshot restore: -

Source volume Volume ID: vol-03a8efab0ae4bc069 Volume size: 30 GiB

CloudShell Feedback

Step 4: Create Volume & select size

Create volume Info

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Snapshot ID: snap-0b93bea1a50128245

Volume type: General Purpose SSD (gp3)

Size (GiB): 32

IOPS: 3000

Throughput (MiB/s): 125

Availability Zone: us-east-1a

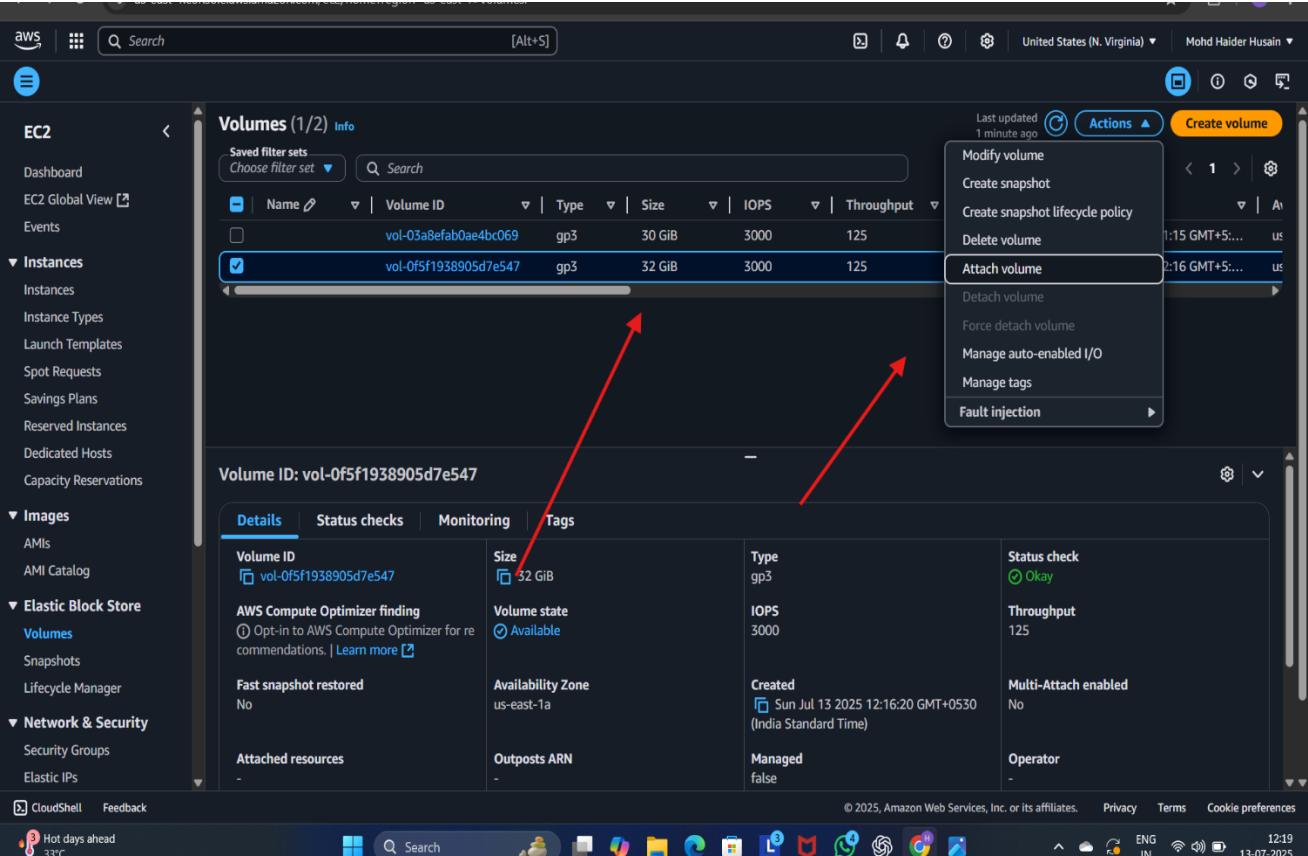
Fast snapshot restore: Not enabled for selected snapshot

CloudShell Feedback

- Make sure you have correctly selected the volume type.

- Size can be adjusted by you

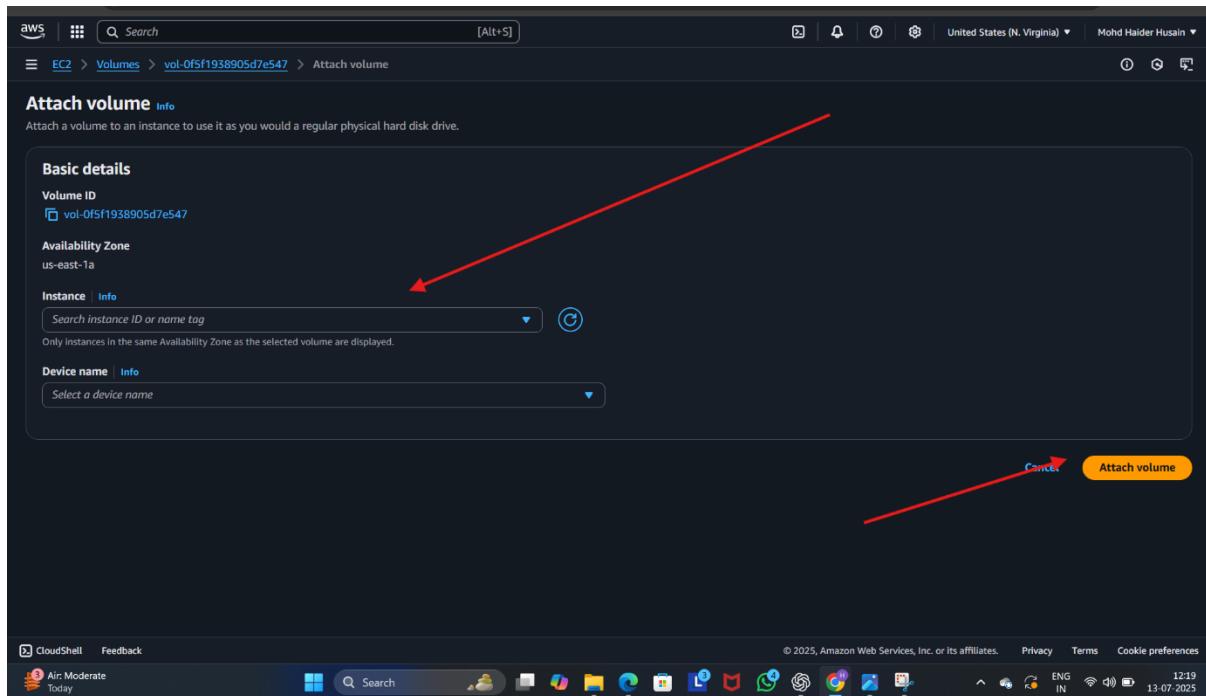
Step 5: Attach volume to created snapshot



The screenshot shows the AWS EC2 Volumes page. In the left sidebar, under 'Elastic Block Store', the 'Volumes' option is selected. The main area displays a table of volumes. A red arrow points from the 'Actions' button in the top right corner of the volume list to the 'Attach volume' option in the dropdown menu. Another red arrow points from the 'Actions' button in the bottom right corner of the detailed view for the selected volume to the same 'Attach volume' option in the dropdown menu. The volume details shown include Volume ID (vol-0f5f1938905d7e547), Size (32 GiB), Type (gp3), Status check (Okay), and Volume state (Available).

- Go to **Volumes**, select the new volume (e.g., 32 GiB).
- Click **Actions > Attach volume**.

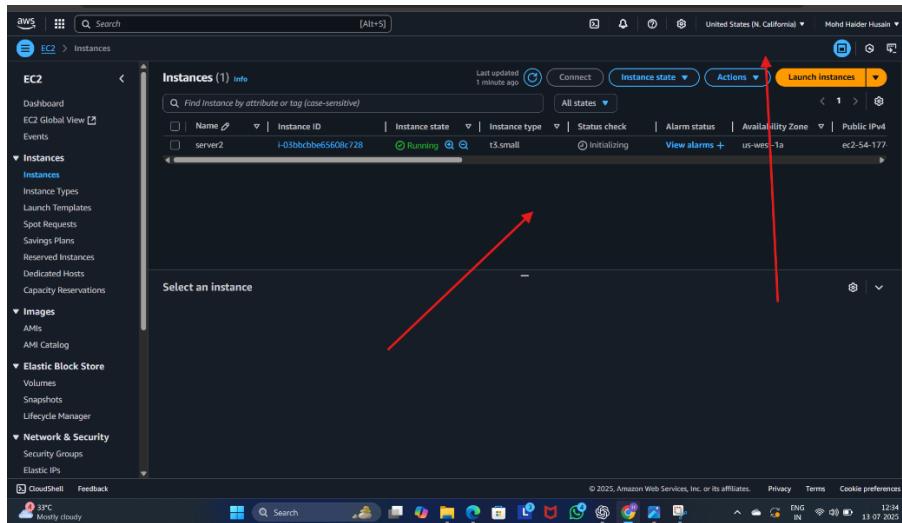
Step 6: Attach Volume to Target Instance



In Attach Volume:

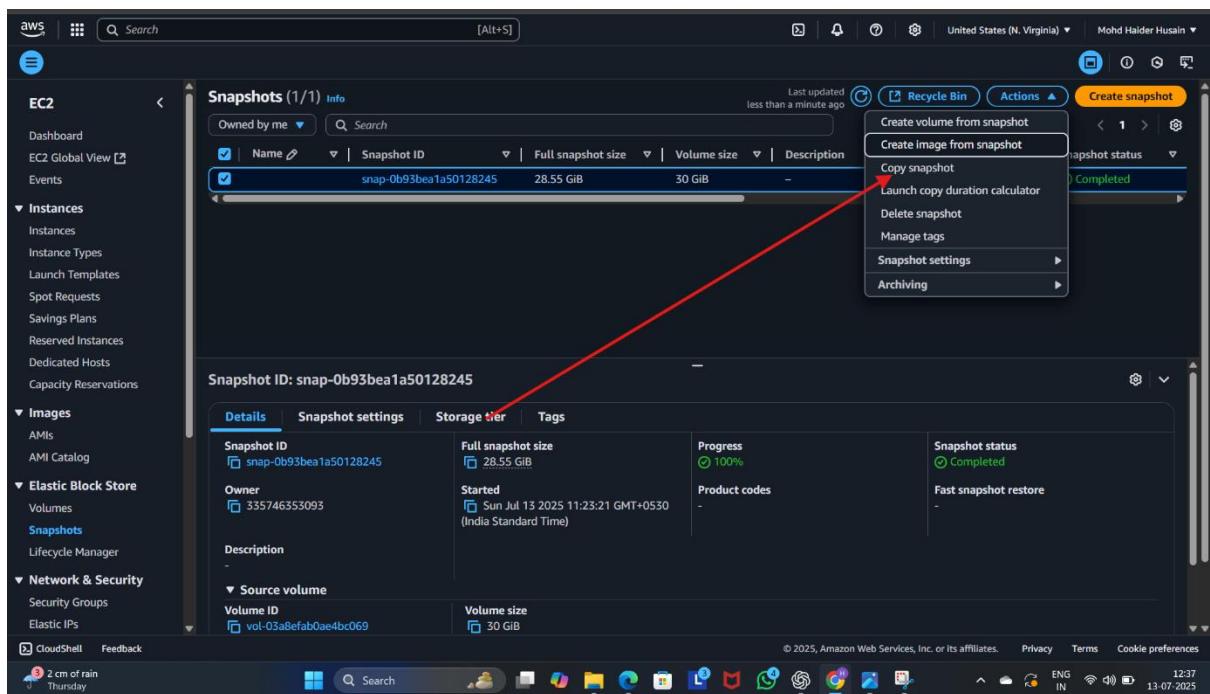
- Select your EC2 instance (in same **Availability Zone**).
- Set a device name like /dev/sdf.
- Click **Attach volume**.

Step 7: Open new EC2 Instance in California Region (Target)



- This instance (server2) in **us-west-1 (California)** is where you'll attach the volume.
- It must be in the **same Availability Zone (e.g., us-west-1a)** as the new volume.

Step 8: Copy Snapshot to Another Region

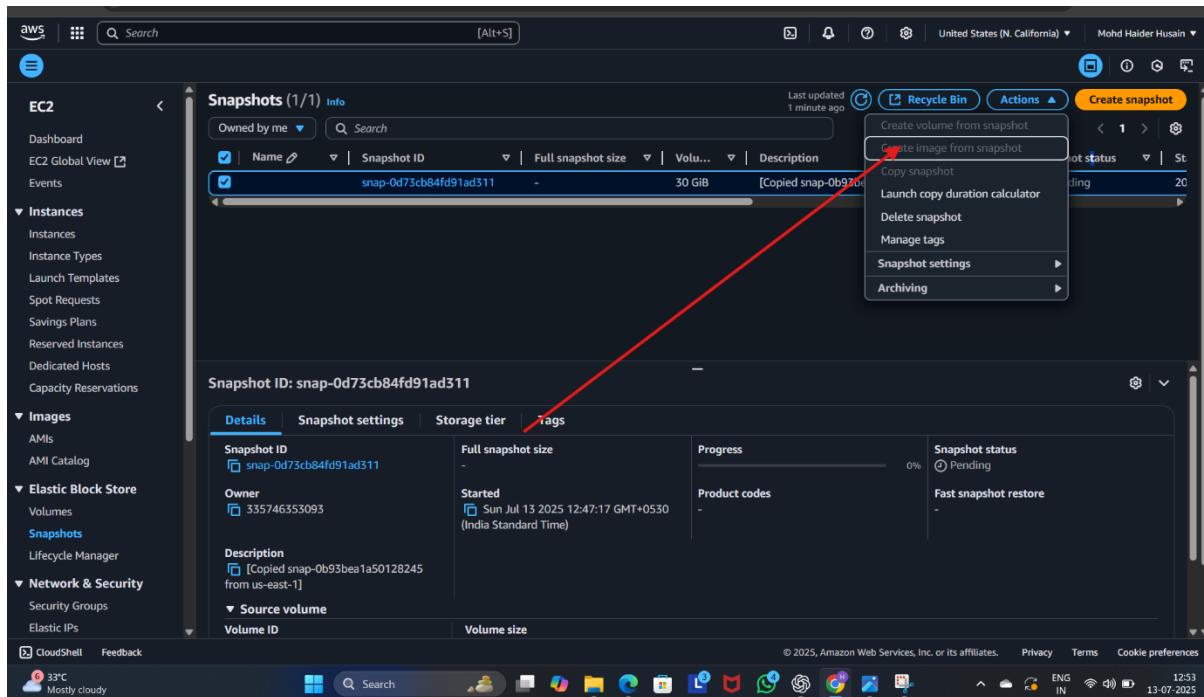


- In your **source region** (e.g., us-east-1, N. Virginia), go to **EC2 → Snapshots**.
- Select the **completed snapshot** you want to copy.
- Click on **Actions → Copy snapshot**.

- A form will open — choose the **destination region** (e.g., us-west-1, N. California).
- You can optionally provide a name and description.
- Click **Copy snapshot**.

 This action replicates the snapshot to another AWS region, allowing you to use it there for volume creation or AMI generation.

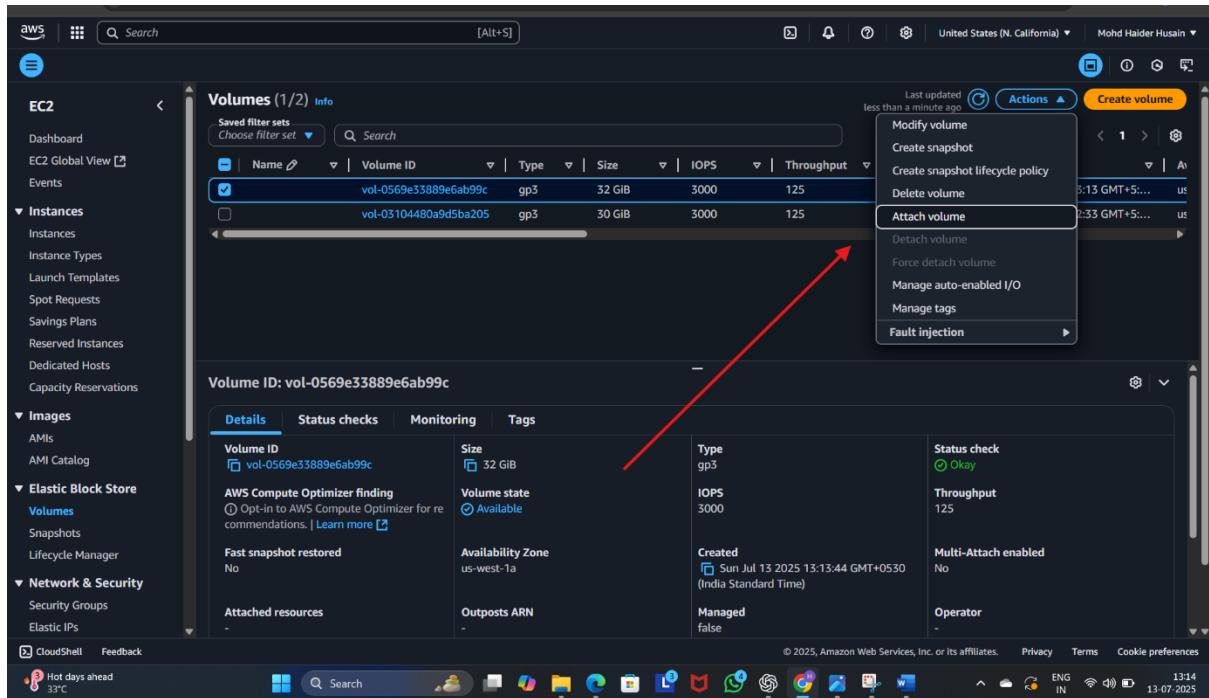
Step 9: Verify Copied Snapshot in Destination Region



- Switch to the **destination region** (e.g., us-west-1, N. California) in the **top-right dropdown**.
- Navigate to **EC2 → Snapshots**.
- You'll now see the **copied snapshot** listed with a description like: **"[Copied snap-0b93bea1a50128245 from us-east-1]"**
- The **snapshot status** may initially show as **Pending**. Wait until it changes to **Completed** before creating a volume or instance from it.

- ✓ This confirms the snapshot has been successfully copied across regions and is now available for use in the target location.

10 Step 10: Attach Volume Created from Copied Snapshot to Instance

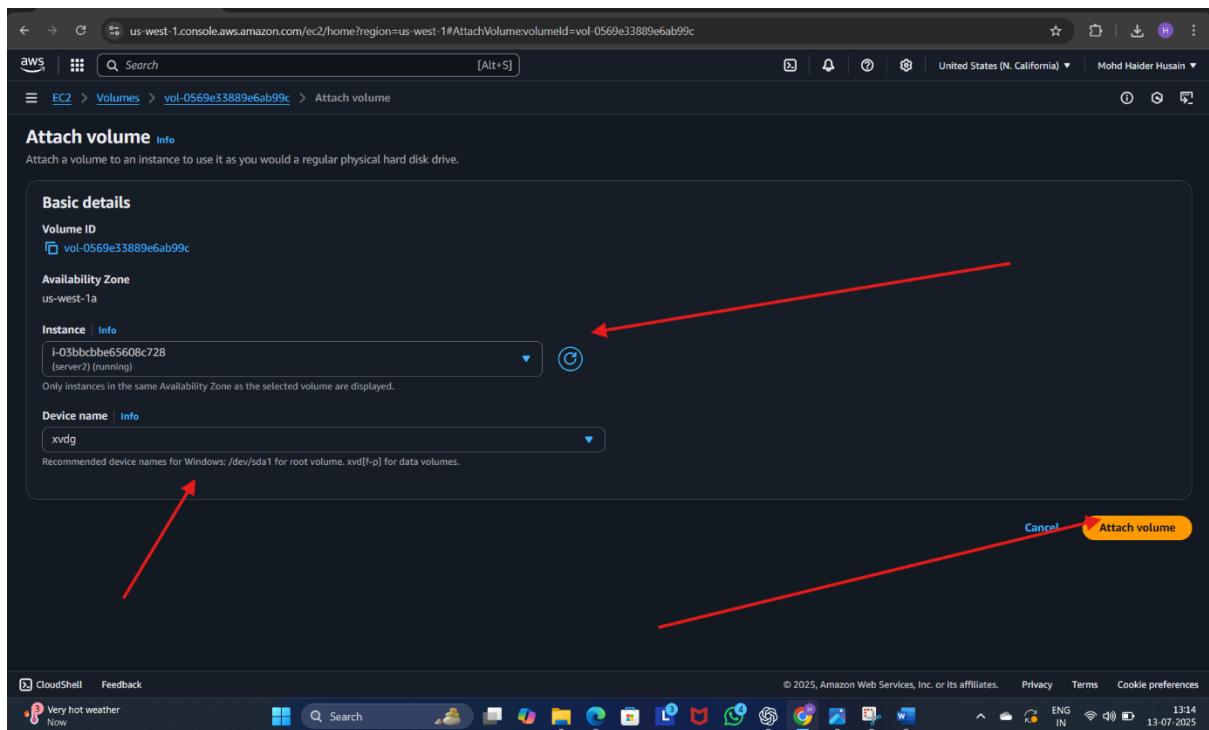


10 Step 10: Attach Volume Created from Copied Snapshot to Instance

- In the destination region (e.g., N. California), go to EC2 → Volumes.
- Locate the volume that was previously created from the copied snapshot.
- Select the volume and click Actions → Attach volume.
- In the Attach volume dialog:
 - Choose the target EC2 instance (e.g., server2).
 - Select a device name (e.g., /dev/sdf for Linux or xvdf, xvgd, etc., depending on your platform).
- Click Attach volume.

✓ This completes the process of reusing the snapshot in a new region and attaching it to your instance.

Step 11: Attach the Newly Created Volume to the EC2 Instance (California Region)



- Navigate to EC2 → Volumes in the destination region (e.g., N. California).
- Select the newly created volume (e.g., vol-0f5f1938905d7e547).
- Click Actions → Attach volume.
- In the Attach volume screen:
 - Choose the target EC2 instance (e.g., server2) from the dropdown.

- Optionally, select a device name (e.g., /dev/sdf).
 - Click Attach volume.
-  The volume is now connected to your EC2 instance and can be mounted or used as needed.

Benefits of Copying and Attaching EBS Snapshots Across Regions

1. Cross-Region Disaster Recovery

- Protects your critical data by storing a copy in a different geographic location.
- If the primary region fails or experiences downtime, you can restore data and launch instances in another region quickly.

2. Quick Deployment in New Regions

- You can spin up EC2 instances with preloaded data or configurations in a different AWS region without starting from scratch.
- Useful for expanding business to new geographic markets or availability zones.

3. Efficient Backup & Restore

- Snapshot copies serve as versioned backups of volumes.
- You can restore the volume from any copied snapshot and attach it to new or existing instances.

4. Reusability of Configuration or Data

- Ideal for sharing pre-configured OS, software stacks, or datasets across teams or regions.
- Save time by reusing existing setups instead of rebuilding environments.

 **5. Data Security with Encryption**

- **Snapshots (original or copied) can be encrypted using KMS keys.**
 - **You can maintain compliance and secure your data during cross-region transfers.**
-

 **6. Supports Multi-Region Architectures**

- **Enables multi-region app architecture where your app can run in multiple regions for redundancy, latency optimization, or regional compliance.**