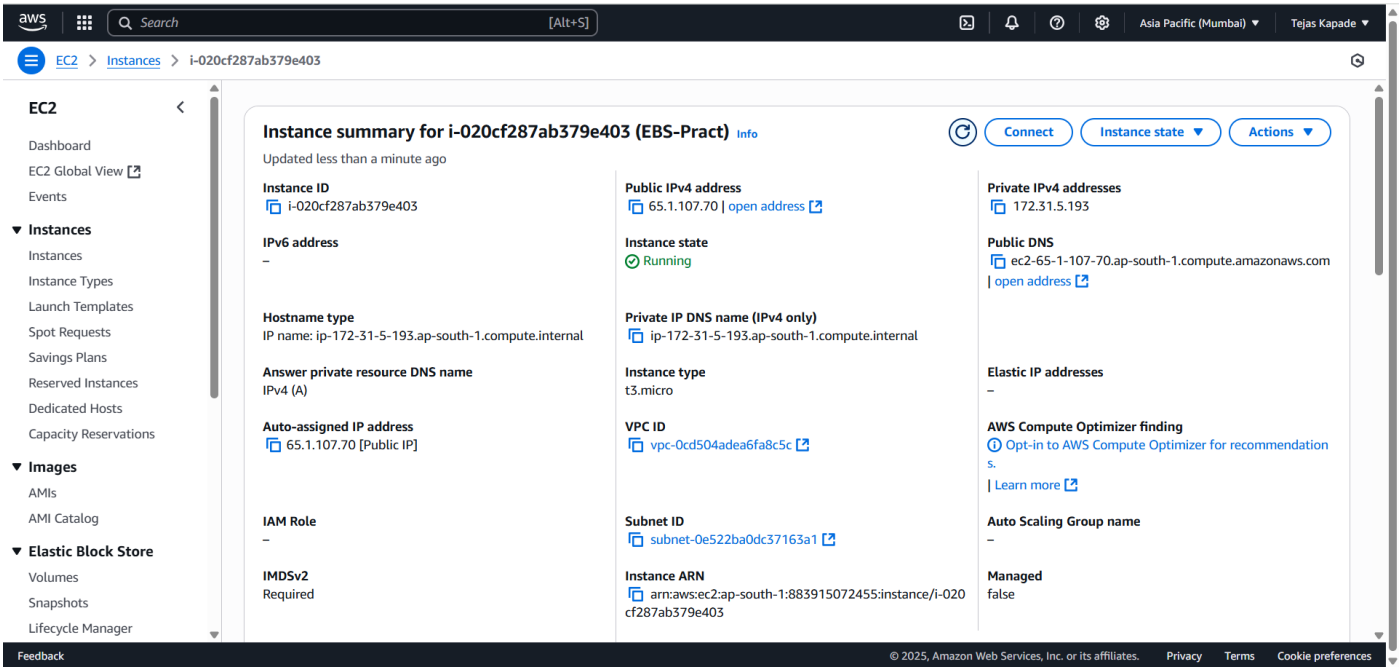
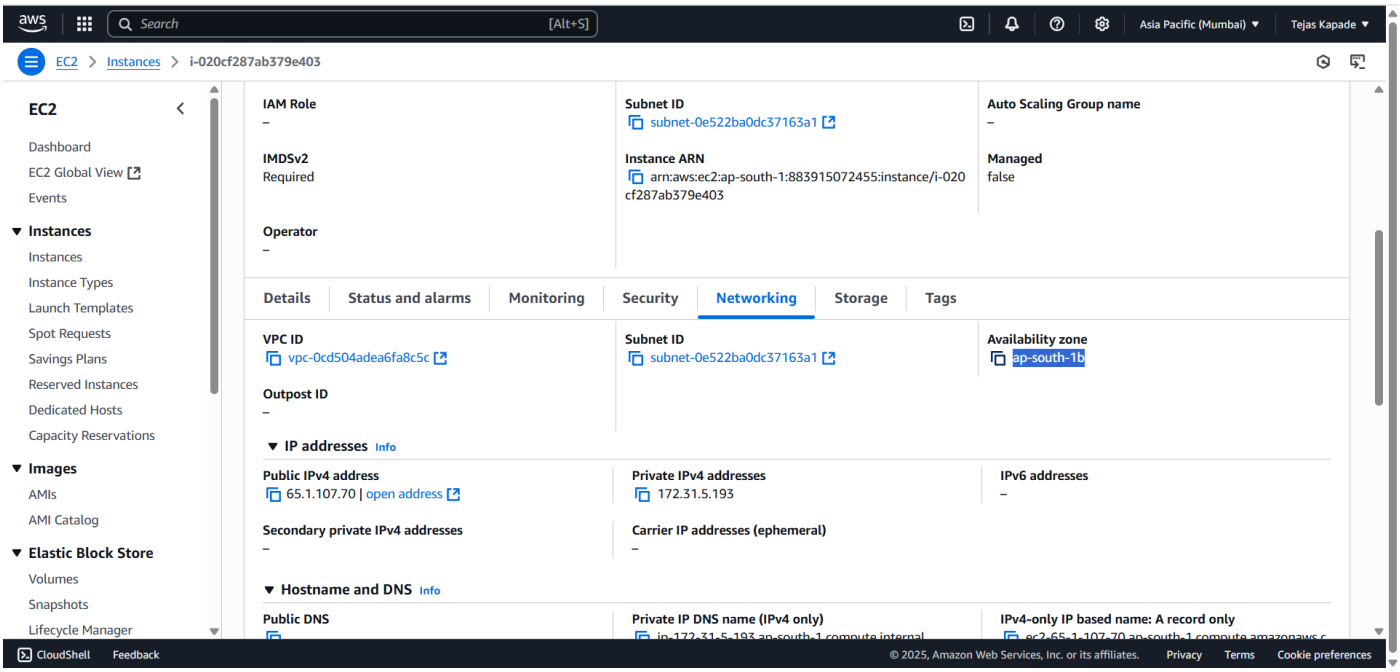
AWS, EBS and Snapshot

06-08-2025

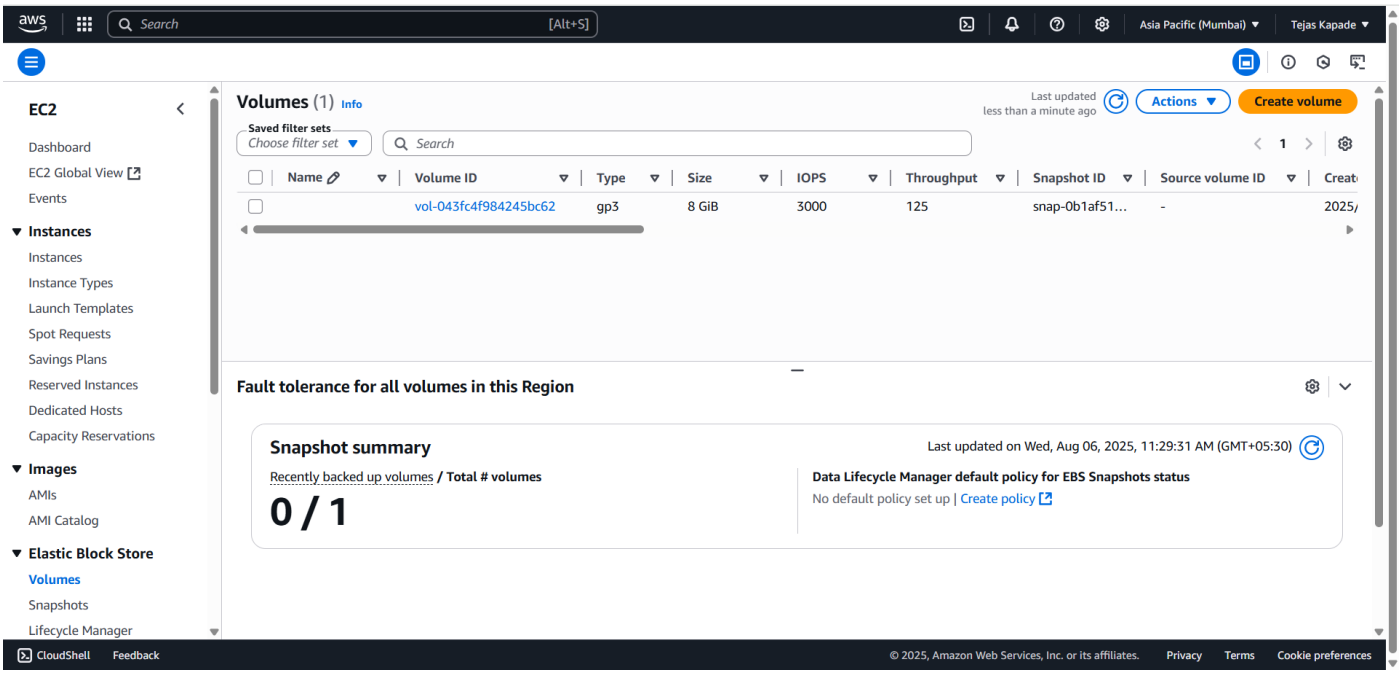
Tejas Kapade.

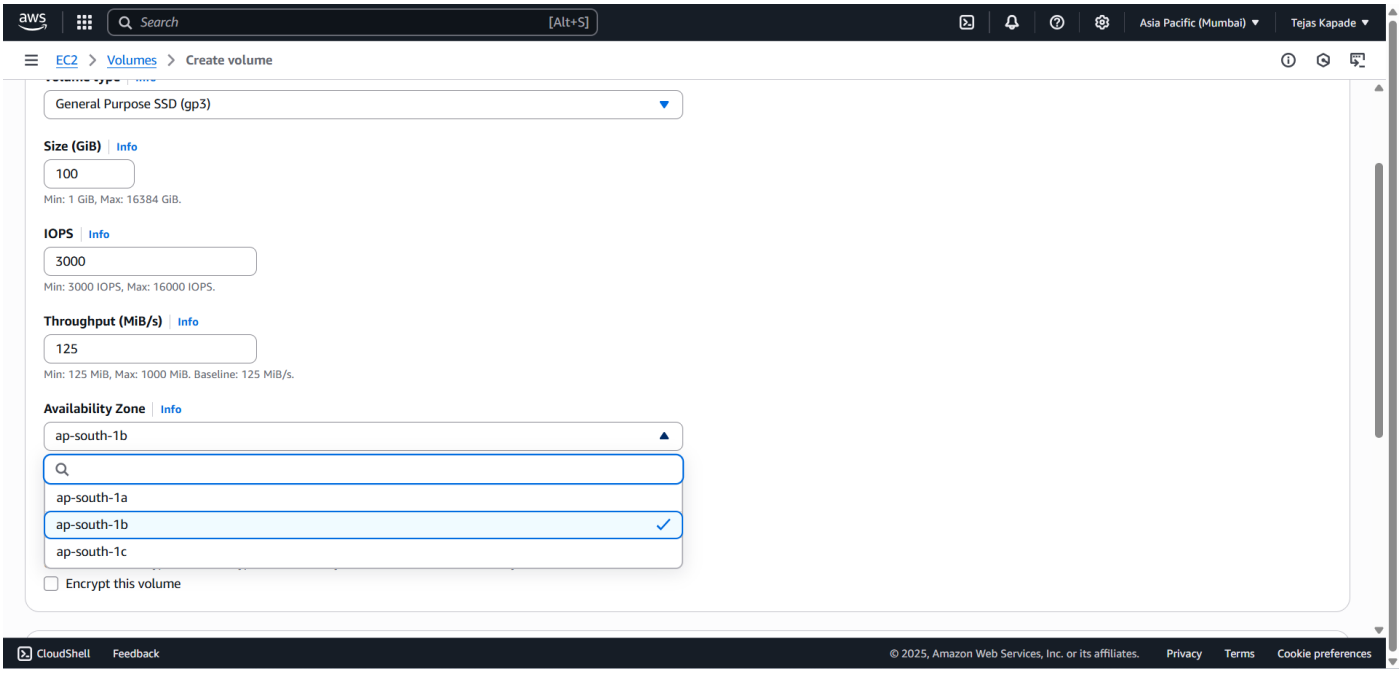
1. Create EC2 Instance. Default volume (EBS)(storage drive) will be created and attached.



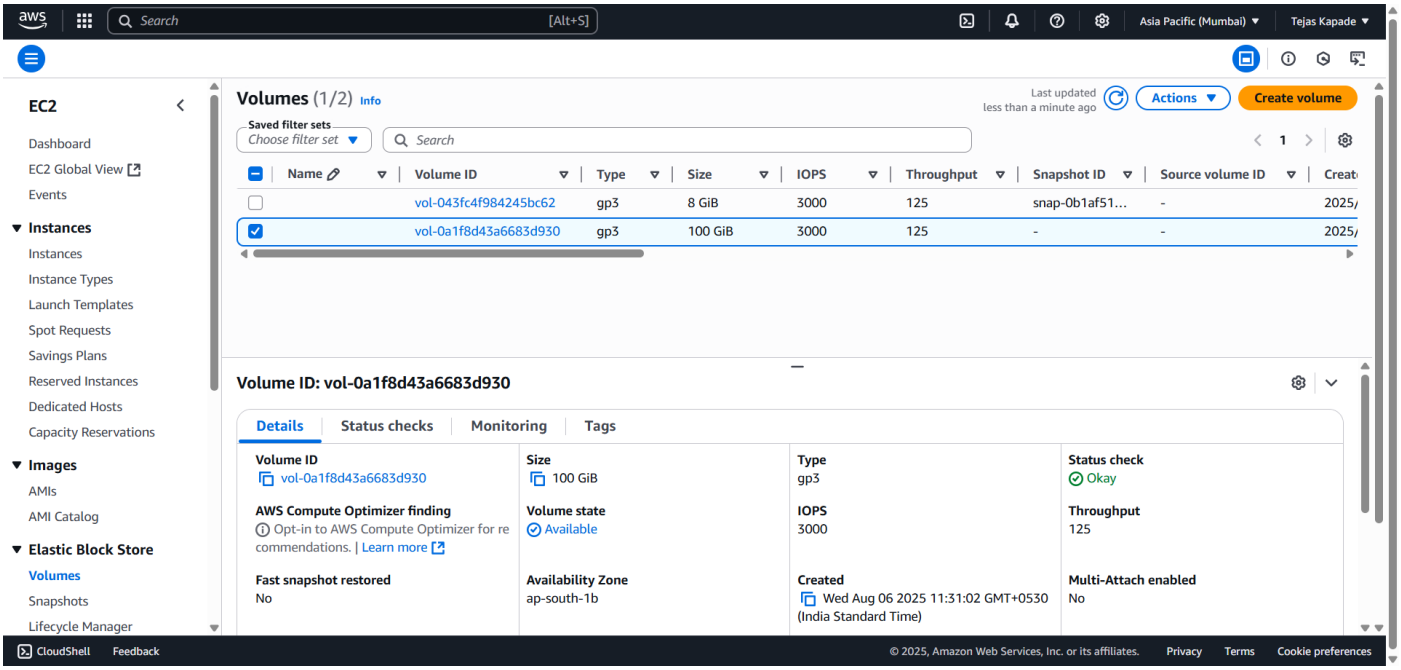



2. Create new Volume (EBS, Storage drive) In same zone as instance. So it can be attached to EC2.

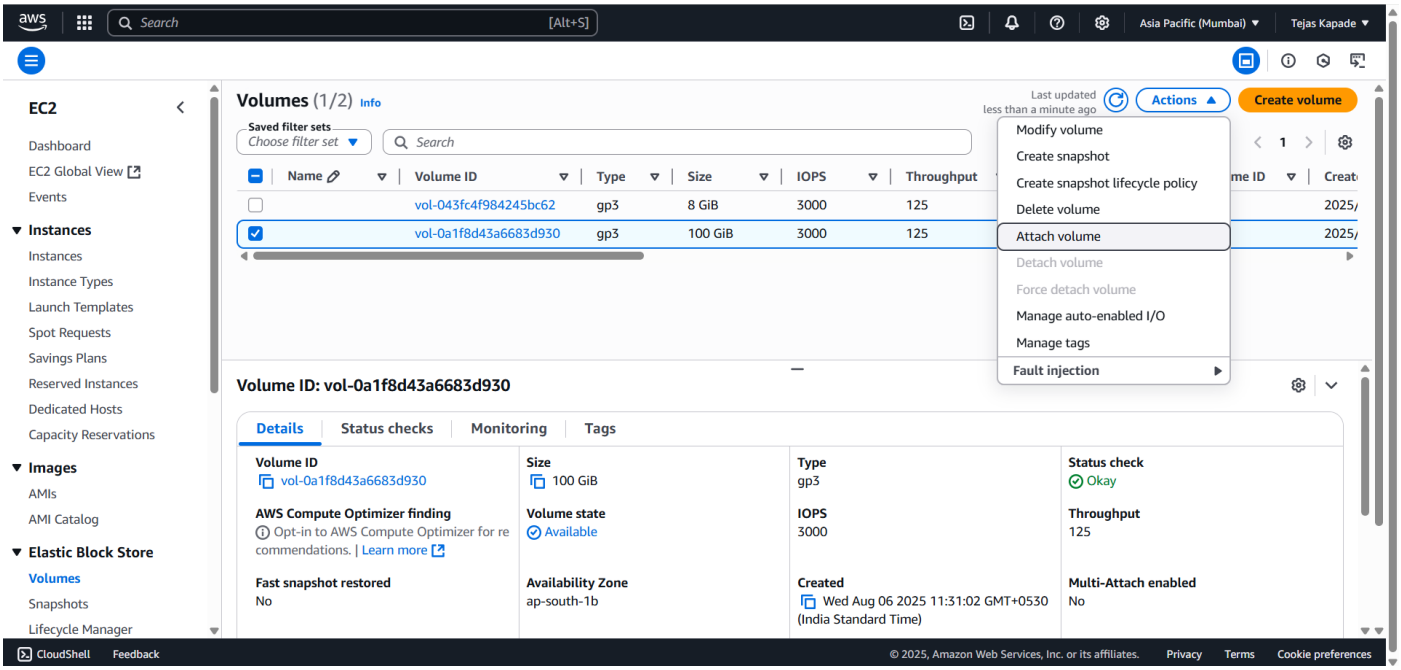


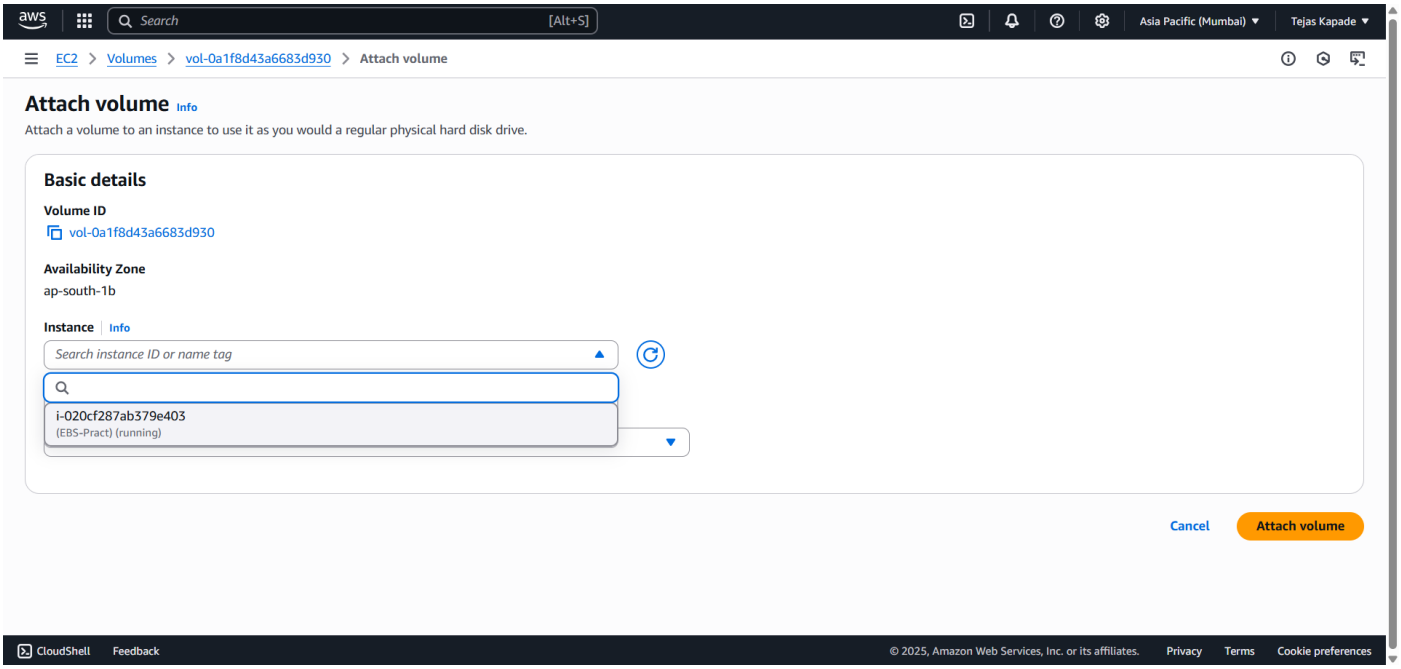




Here our instance in 1b.




3. Attach newly created EBS to instance (EC2)




aws
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EC2 > Volumes > vol-0a1f8d43a6683d930 > Attach volume
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-0a1f8d43a6683d930
Availability Zone
ap-south-1b
Instance Info
Search instance ID or name tag
i-020cf287ab379e403
(EBS-Pract) (running)
Cancel
Attach volume
CloudShell
Feedback
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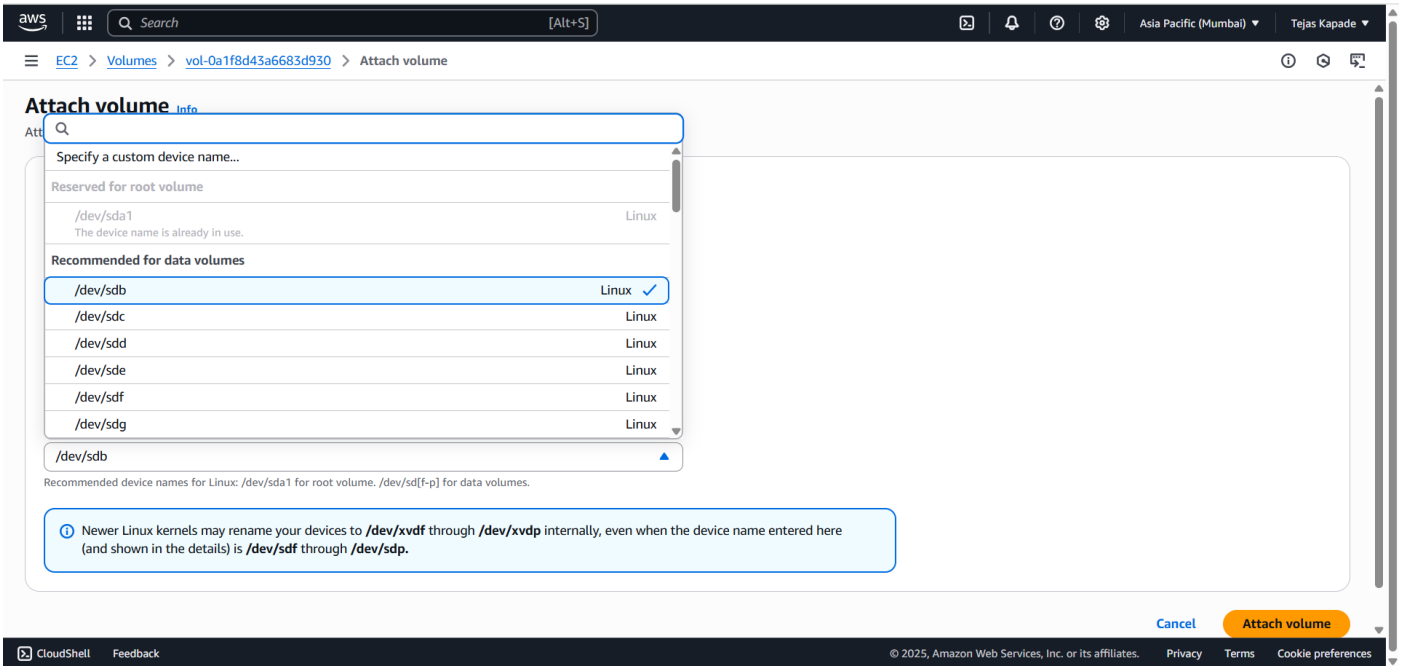
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EC2 > Volumes > vol-0a1f8d43a6683d930 > Attach volume
Attach volume Info
Specify a custom device name...
Reserved for root volume
/dev/sda1 Linux
The device name is already in use.
Recommended for data volumes
/dev/sdb Linux
/dev/sdc Linux
/dev/sdd Linux
/dev/sde Linux
/dev/sdf Linux
/dev/sdg Linux
/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
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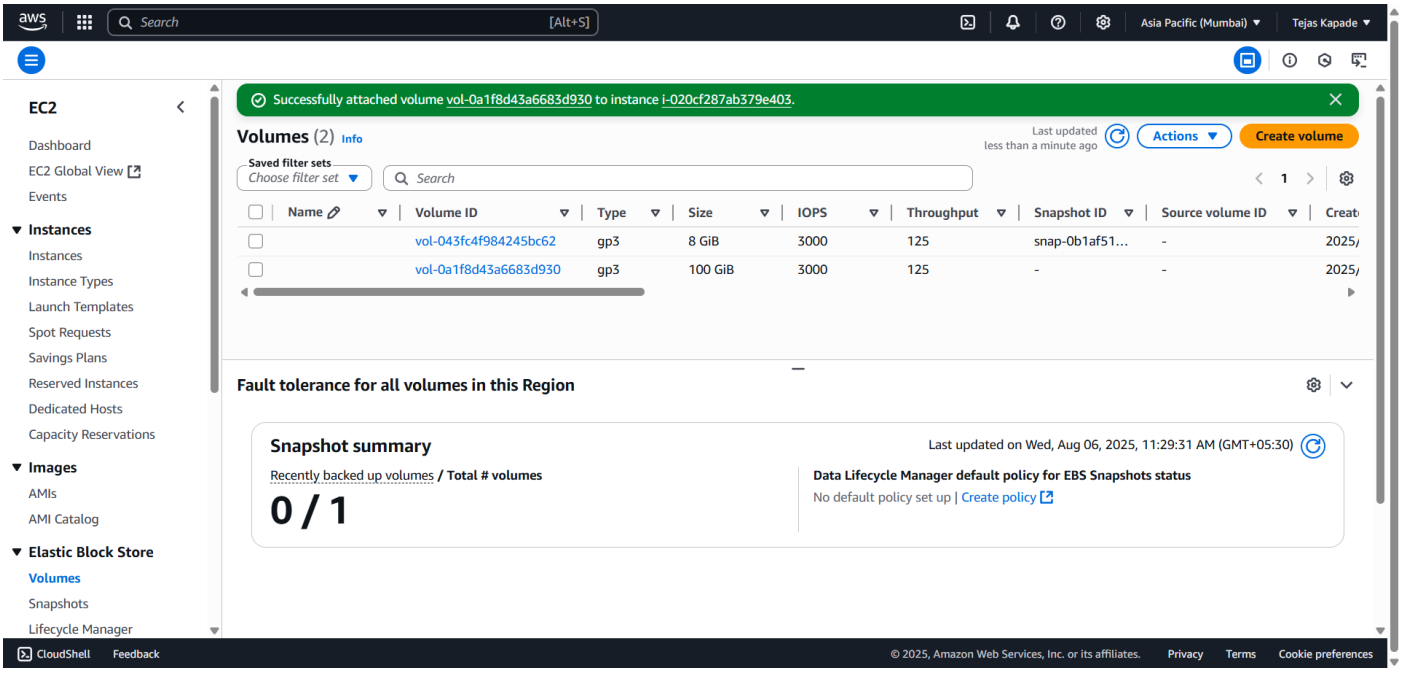
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EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Successfully attached volume vol-0a1f8d43a6683d930 to instance i-020cf287ab379e403.
Volumes (2) Info
Last updated less than a minute ago
Actions
Create volume
Saved filter sets
Choose filter set
Search
Name
Volume ID
Type
Size
IOPS
Throughput
Snapshot ID
Source volume ID
vol-043fc4f984245bc62 gp3 8 GiB 3000 125 snap-0b1af51... -
vol-0a1f8d43a6683d930 gp3 100 GiB 3000 125 - -
Fault tolerance for all volumes in this Region
Snapshot summary
Last updated on Wed, Aug 06, 2025, 11:29:31 AM (GMT+05:30)
Recently backed up volumes / Total # volumes
0 / 1
Data Lifecycle Manager default policy for EBS Snapshots status
No default policy set up | Create policy
CloudShell
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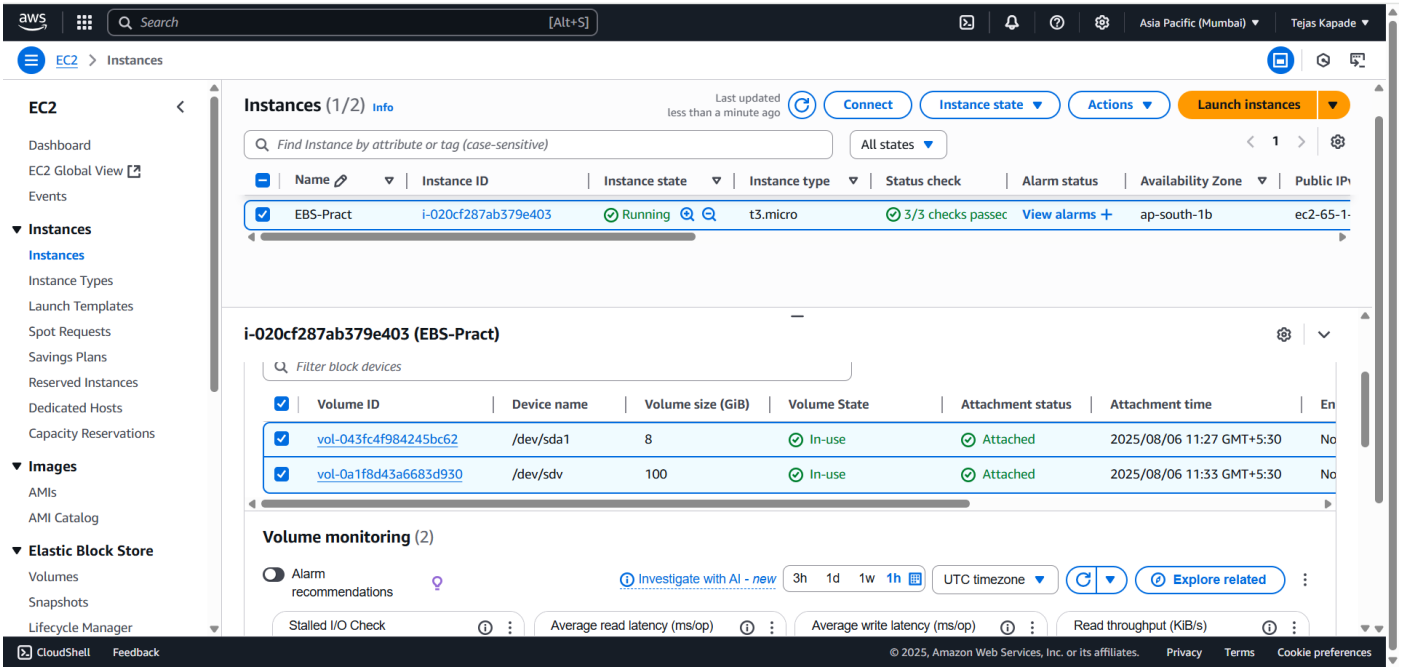
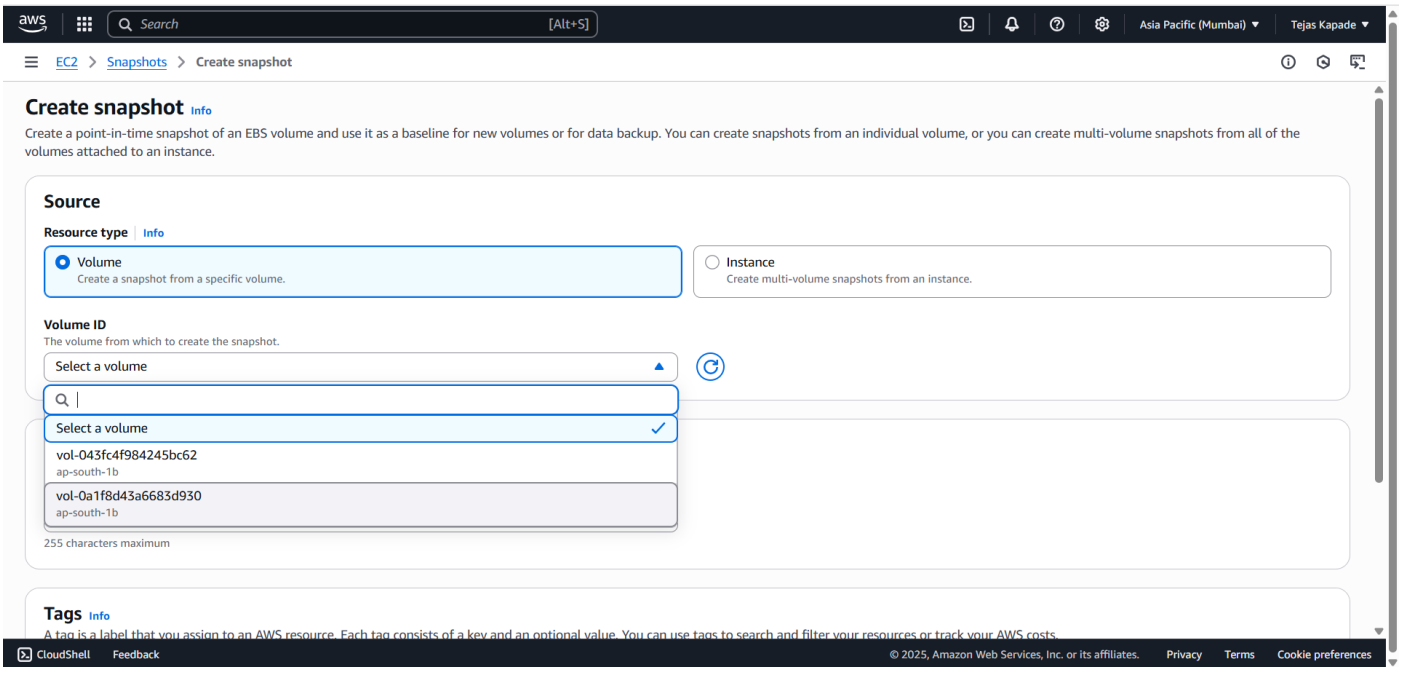
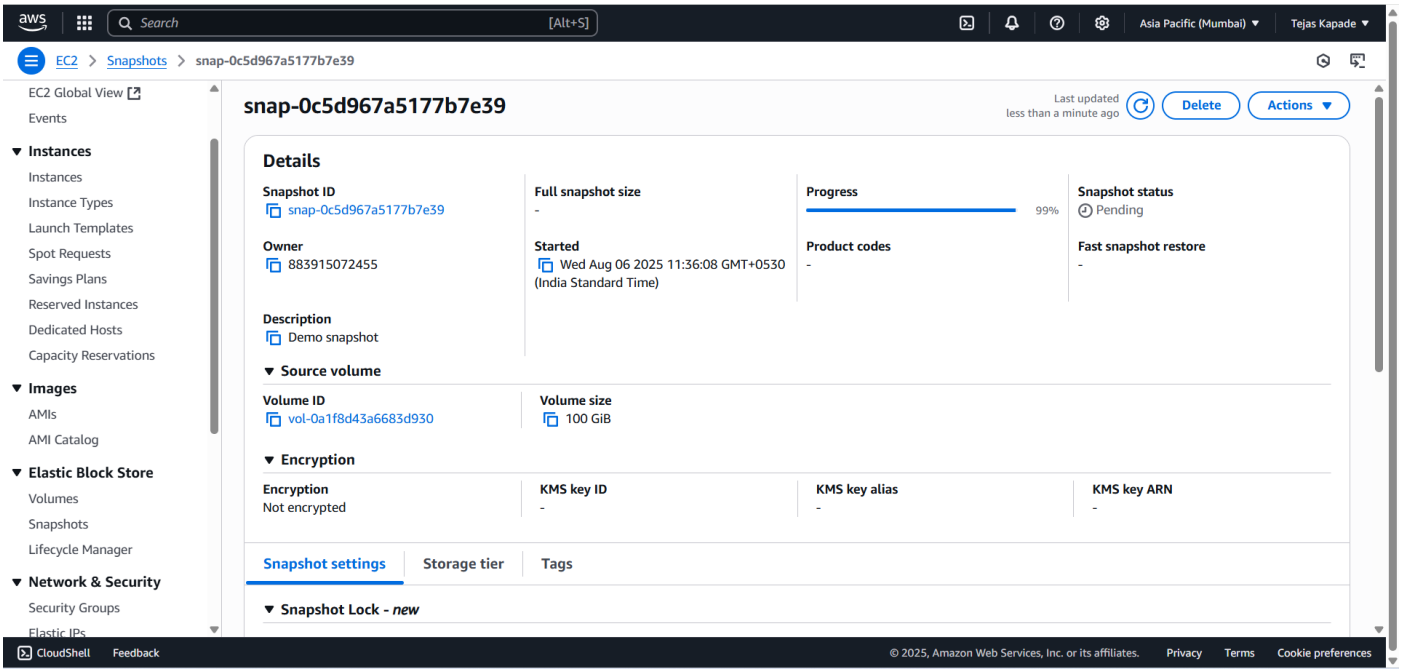



Volume is attached to instance.

4. Create Snapshot of EBS, can be stored in different region or zone.

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EC2 > Snapshots > snap-0c5d967a5177b7e39
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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
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
snap-0c5d967a5177b7e39
Last updated
less than a minute ago
Delete
Actions
Details
Snapshot ID
snap-0c5d967a5177b7e39
Full snapshot size
-
Progress
99%
Snapshot status
Pending
Owner
883915072455
Started
Wed Aug 06 2025 11:36:08 GMT+0530
(India Standard Time)
Product codes
-
Fast snapshot restore
-
Description
Demo snapshot
Source volume
Volume ID
vol-0a1f8d43a6683d930
Volume size
100 GiB
Encryption
Encryption
Not encrypted
KMS key ID
-
KMS key alias
-
KMS key ARN
-
Snapshot settings
Storage tier
Tags
Snapshot Lock - new
CloudShell
Feedback
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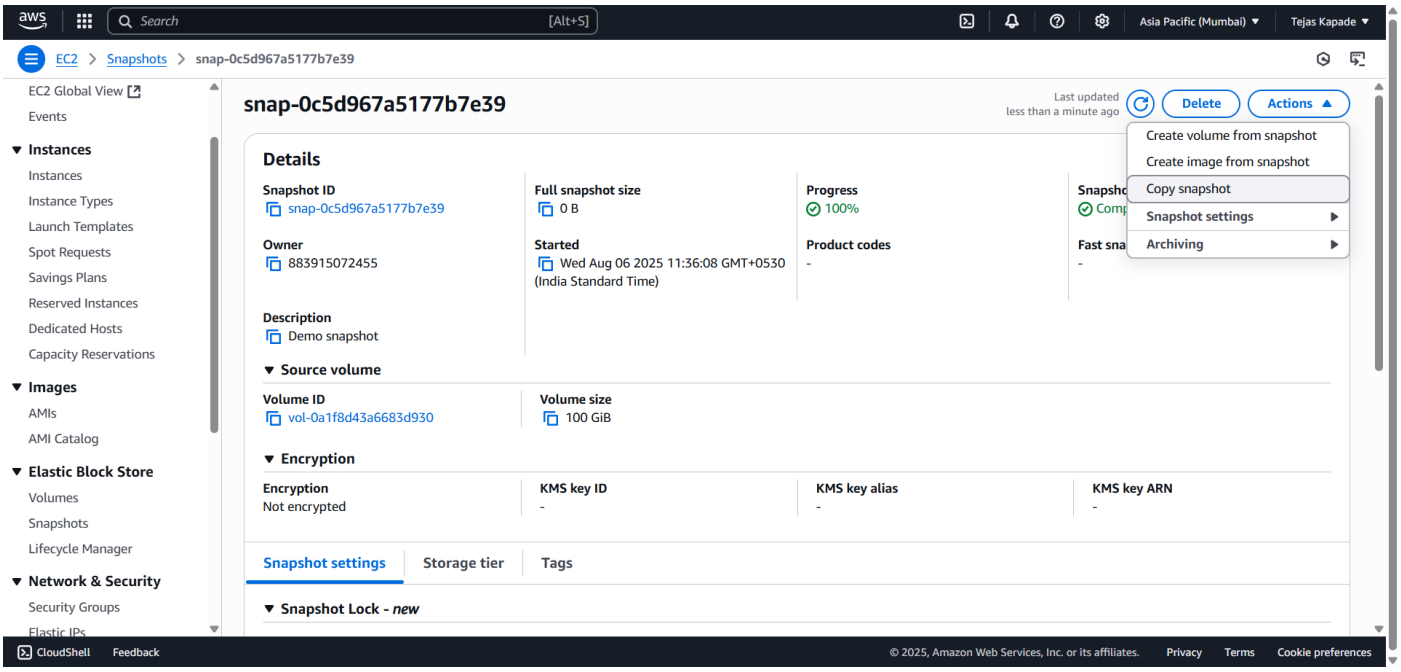
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EC2 > Snapshots > snap-0c5d967a5177b7e39
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Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
snap-0c5d967a5177b7e39
Last updated
less than a minute ago
Delete
Actions
Create volume from snapshot
Create image from snapshot
Copy snapshot
Snapshot settings
Archiving
Details
Snapshot ID
snap-0c5d967a5177b7e39
Full snapshot size
0 B
Progress
100%
Owner
883915072455
Started
Wed Aug 06 2025 11:36:08 GMT+0530
(India Standard Time)
Product codes
-
Description
Demo snapshot
Source volume
Volume ID
vol-0a1f8d43a6683d930
Volume size
100 GiB
Encryption
Encryption
Not encrypted
KMS key ID
-
KMS key alias
-
KMS key ARN
-
Snapshot settings
Storage tier
Tags
Snapshot Lock - new
CloudShell
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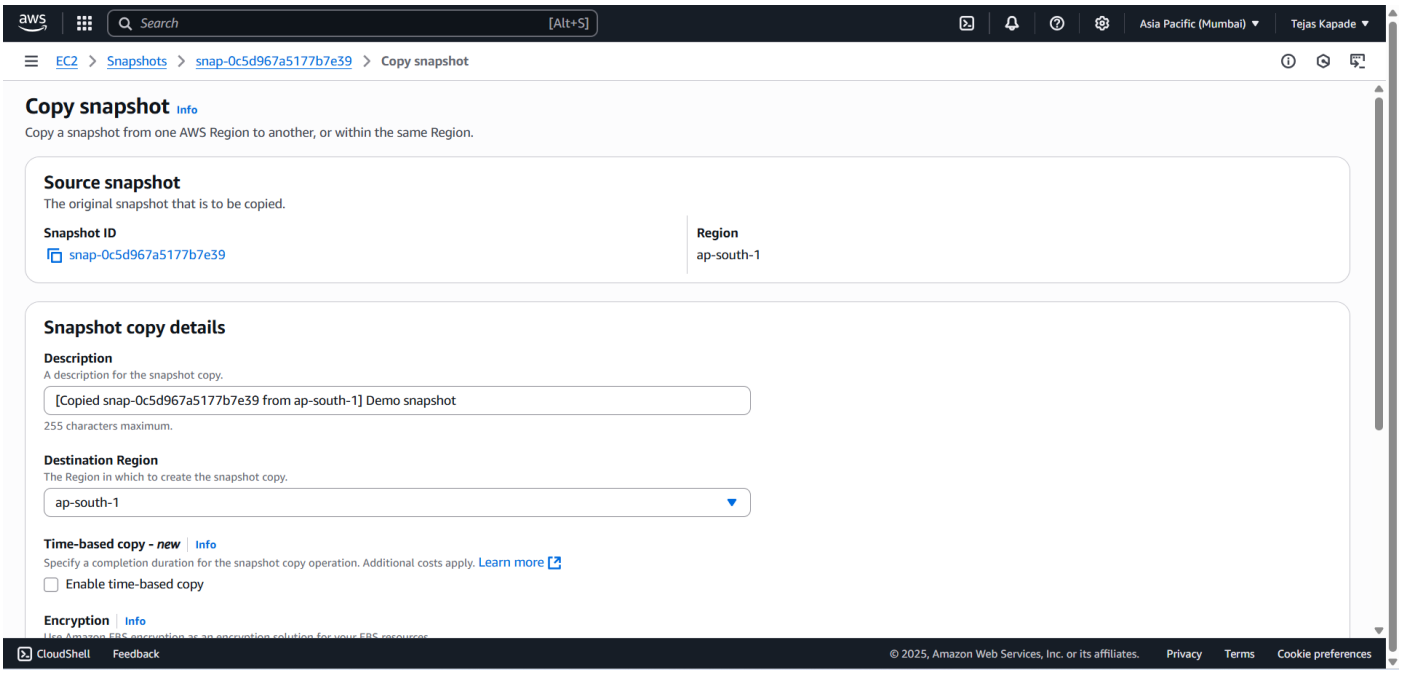
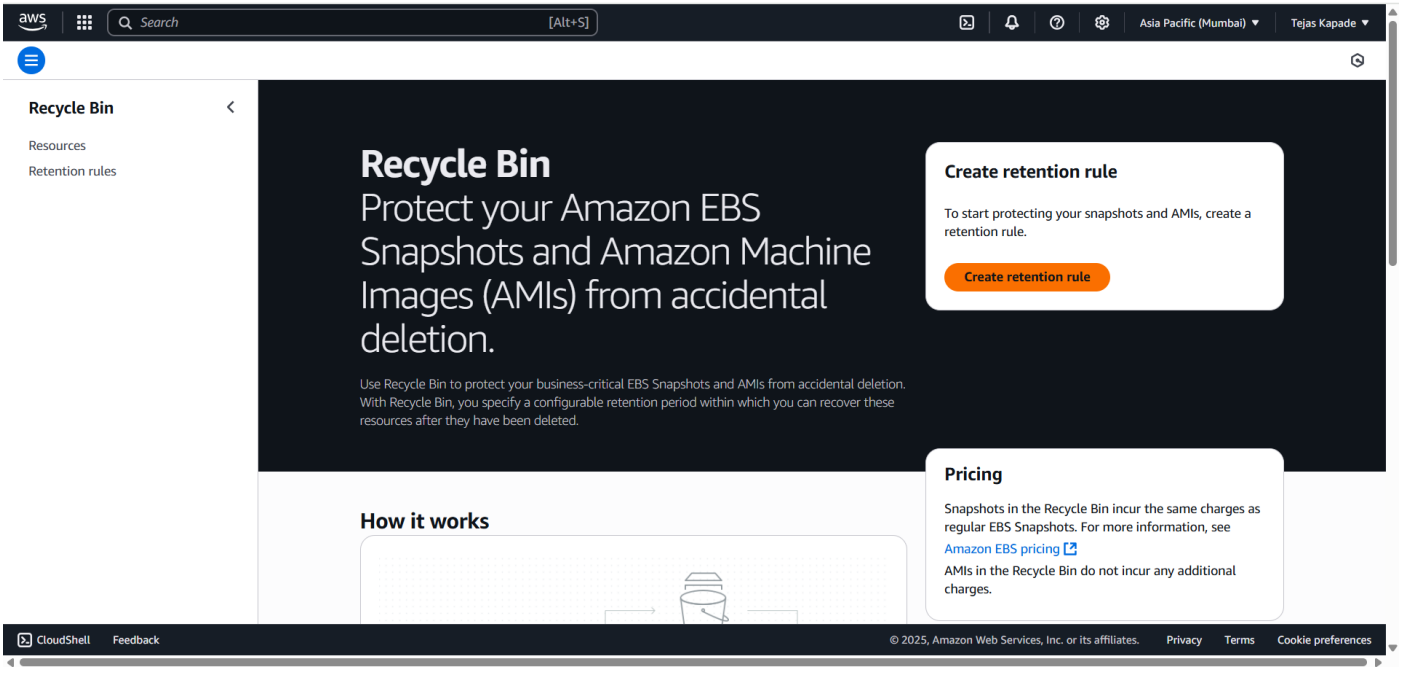
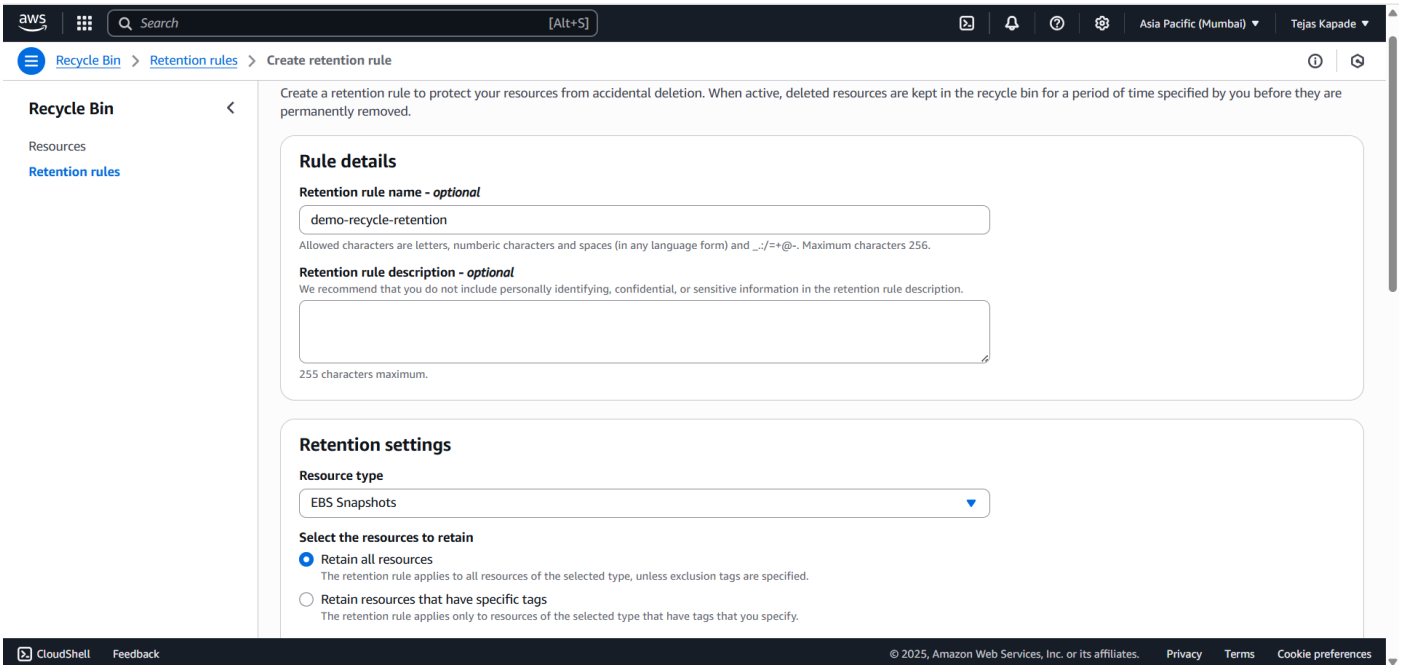
We can copy snapshot to different region,




5. Create recycle bin.

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Recycle Bin > Retention rules > Create retention rule
Recycle Bin
Resources
Retention rules
Create a retention rule to protect your resources from accidental deletion. When active, deleted resources are kept in the recycle bin for a period of time specified by you before they are permanently removed.
Rule details
Retention rule name - optional
demo-recycle-retention
Allowed characters are letters, numberic characters and spaces (in any language form) and _.:/=+@-. Maximum characters 256.
Retention rule description - optional
We recommend that you do not include personally identifying, confidential, or sensitive information in the retention rule description.
255 characters maximum.
Retention settings
Resource type
EBS Snapshots
Select the resources to retain
Retain all resources
The retention rule applies to all resources of the selected type, unless exclusion tags are specified.
Retain resources that have specific tags
The retention rule applies only to resources of the selected type that have tags that you specify.
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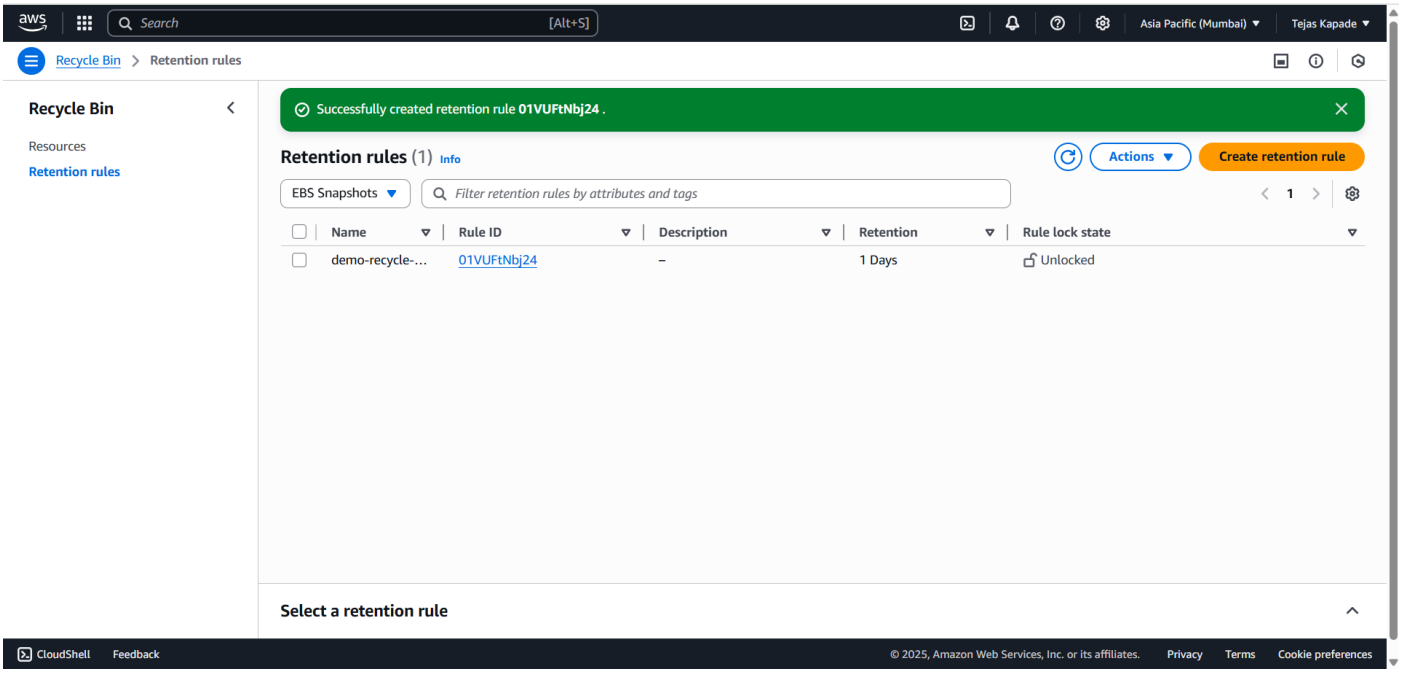
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Recycle Bin > Retention rules
Recycle Bin
Resources
Retention rules
Successfully created retention rule 01VUFtNbj24 .
Retention rules (1) Info
Actions
Create retention rule
EBS Snapshots
Filter retention rules by attributes and tags
1
Name
Rule ID
Description
Retention
Rule lock state
demo-recycle-...
01VUFtNbj24
–
1 Days
Unlocked
Select a retention rule
CloudShell
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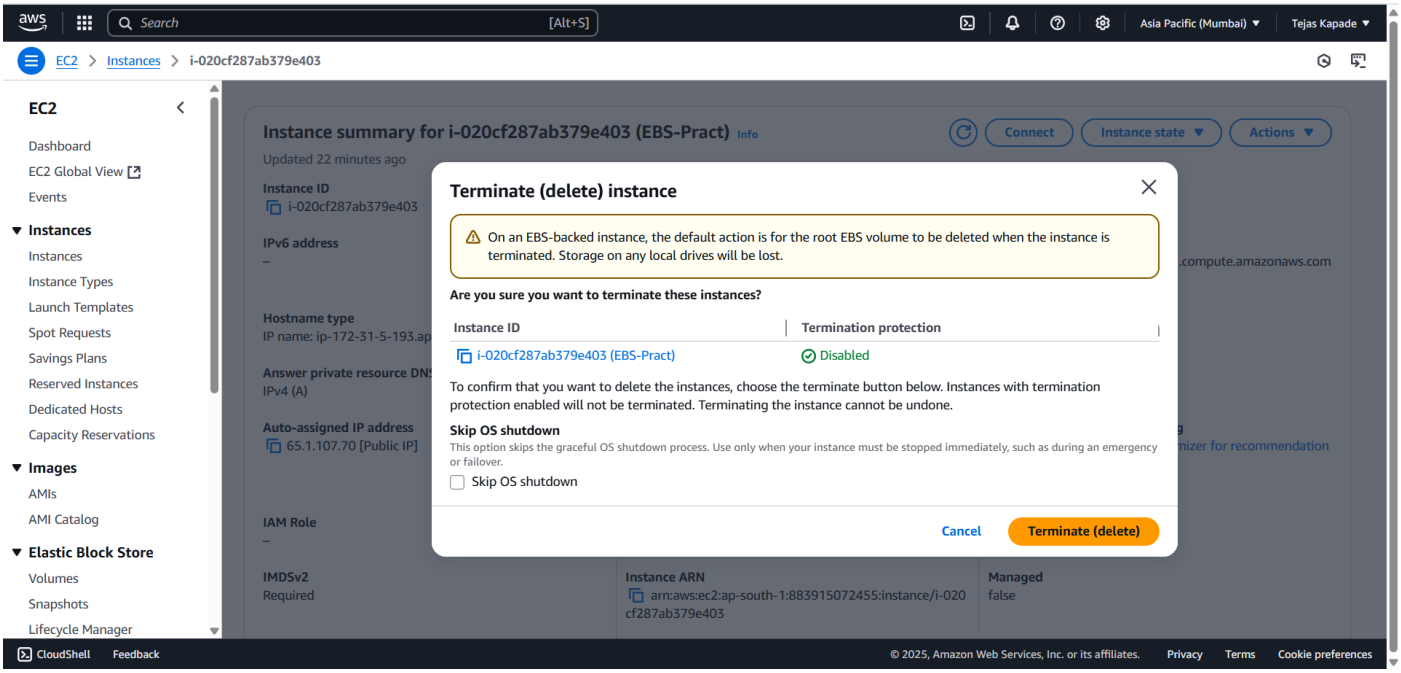
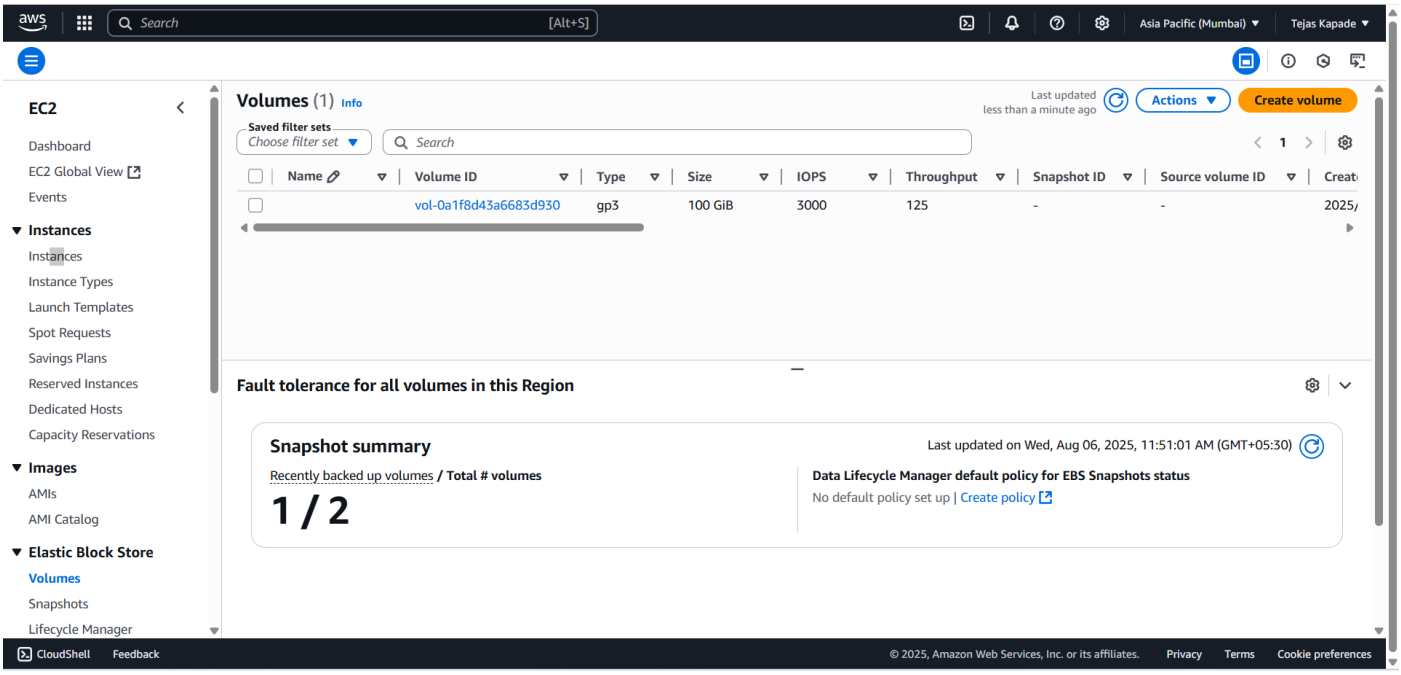
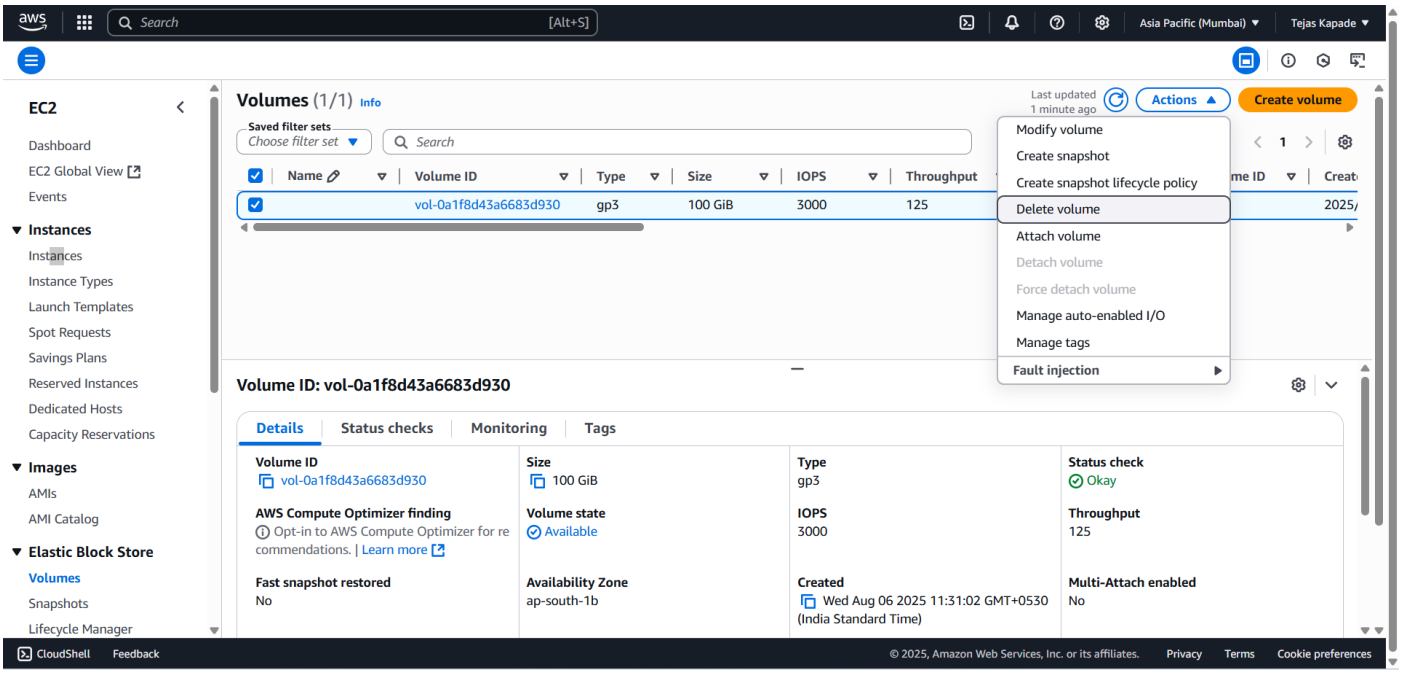
6. Deleting instances and snapshots



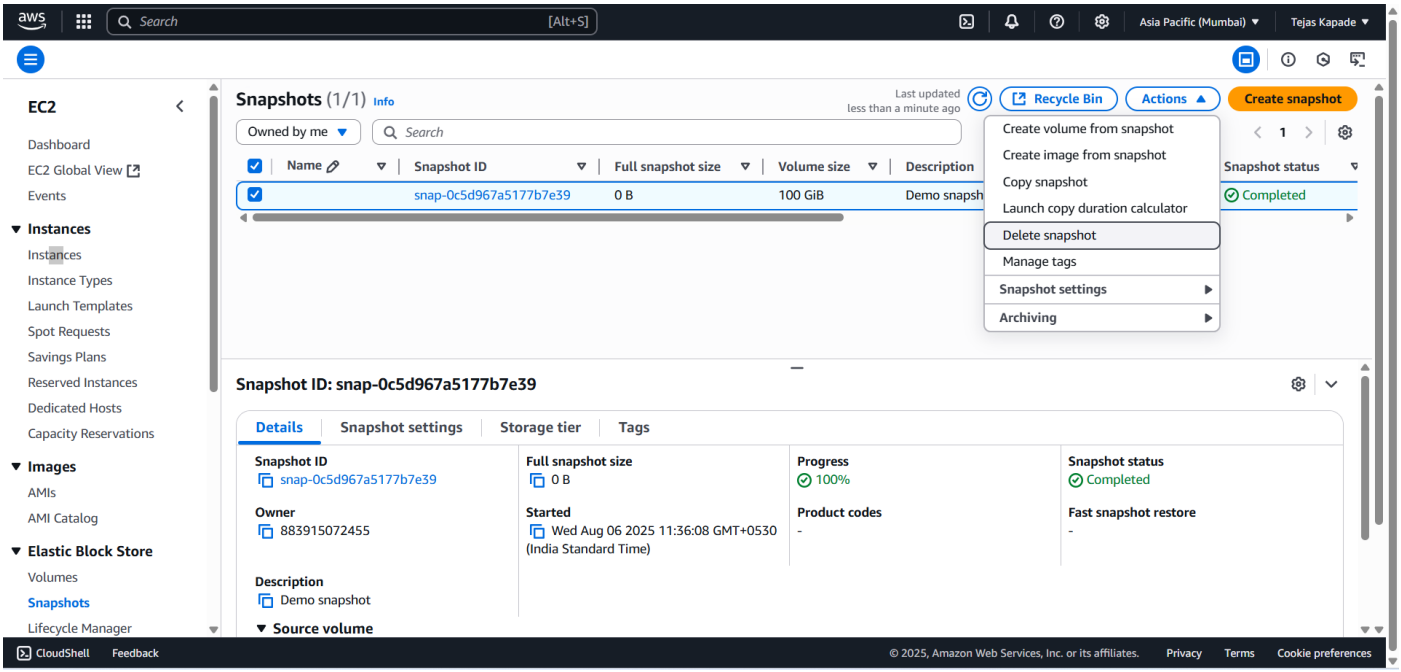

Default volume automatically deleted,



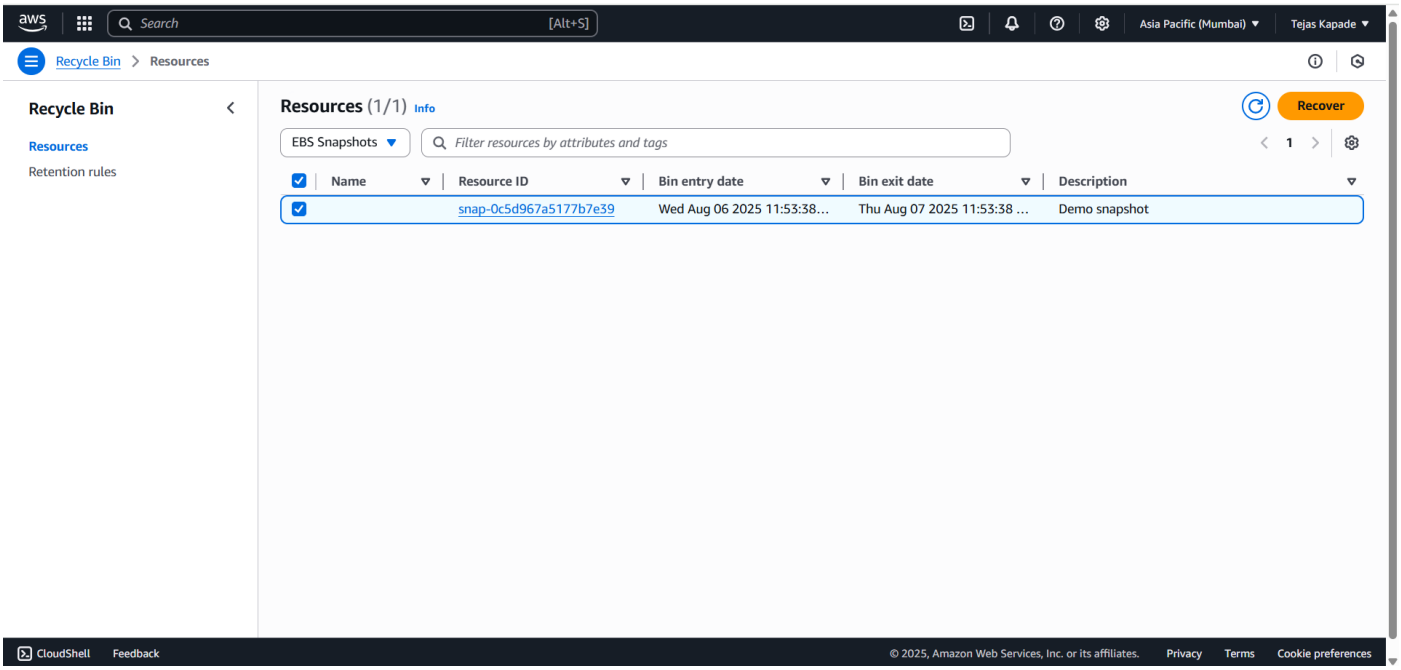
Delete new created volume,

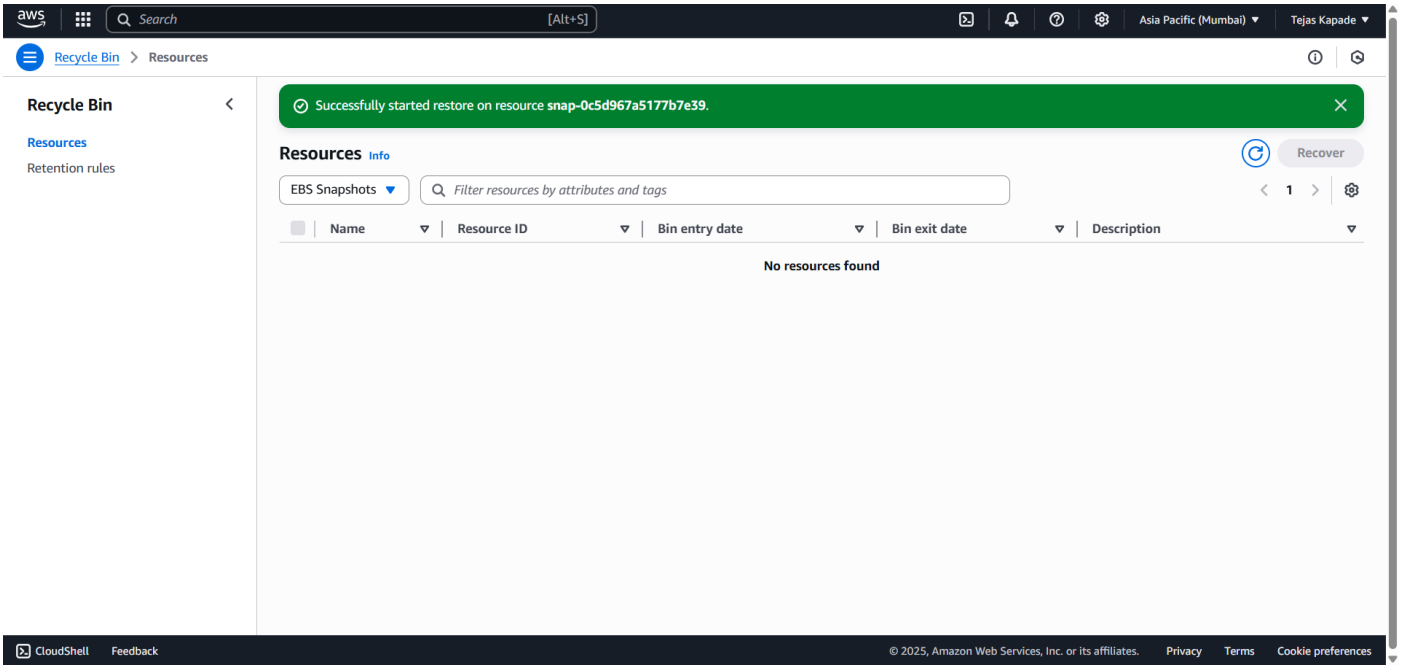



Delete snapshot,

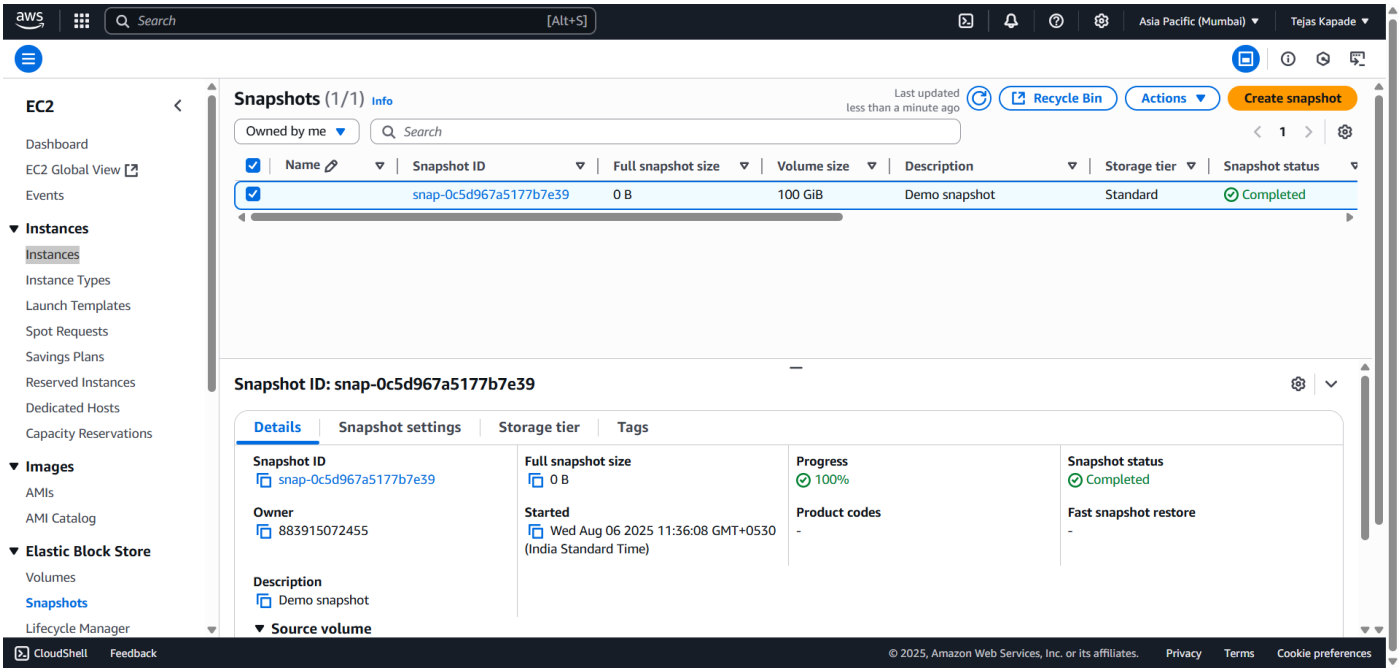


We can recover deleted snapshot from recycle bin,



We can see snapshot again appeared,




Delete retention rule,