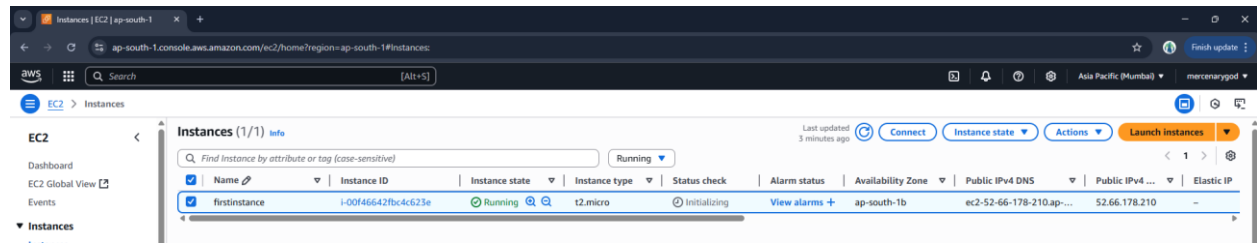


Documentaion

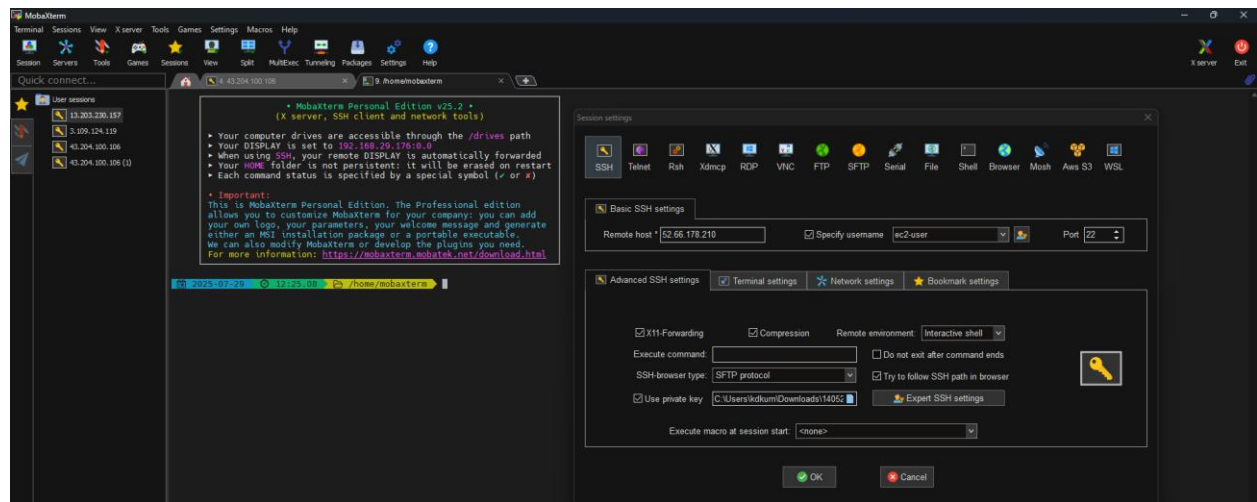
on

Disaster Recovery (DR) – EC2 Backup & Restore

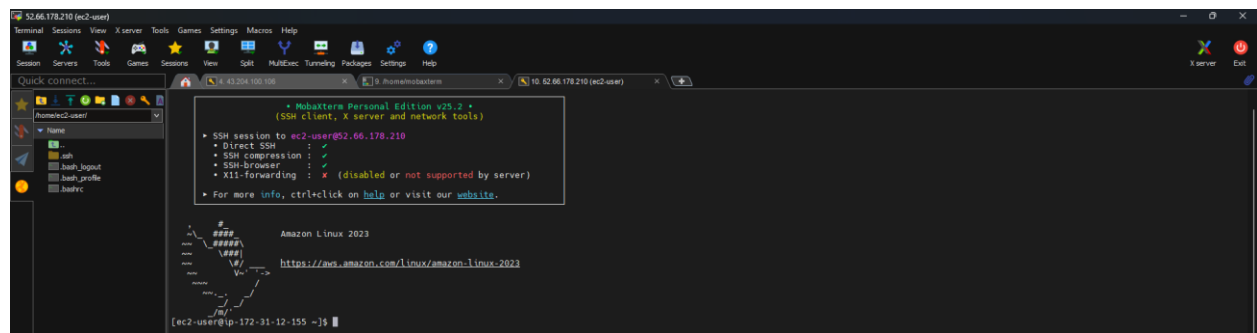
Created an Ec2 Instance with Amazon Linux Image



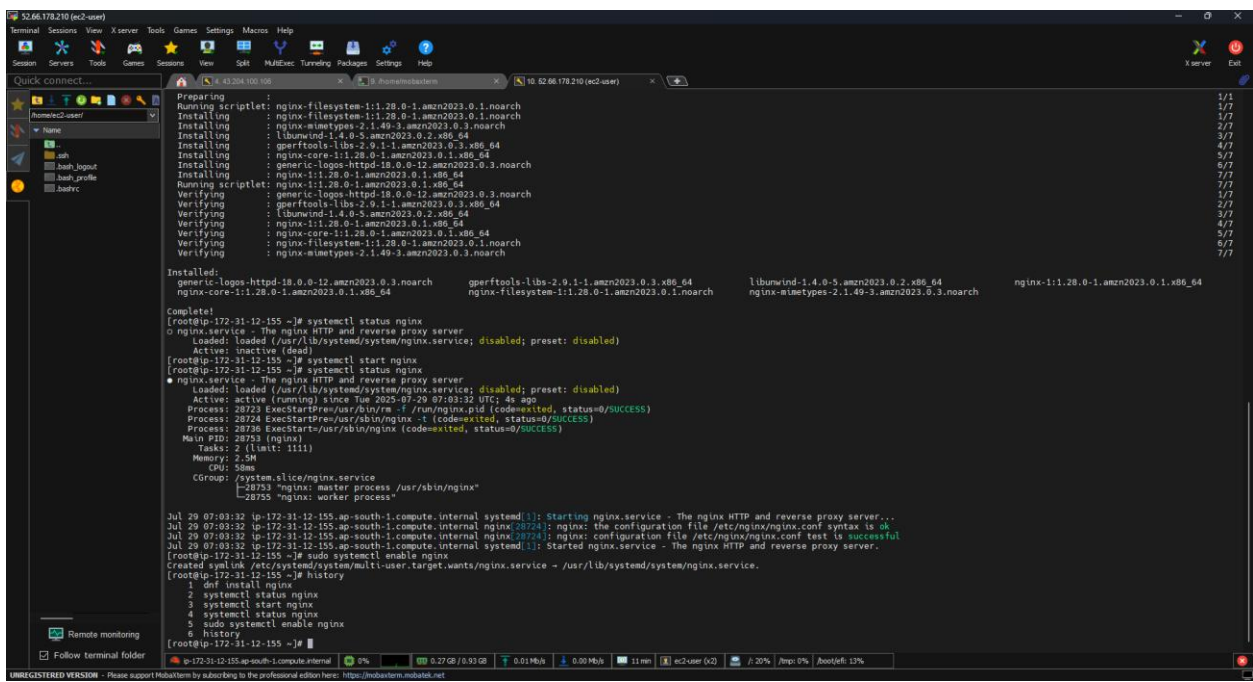
Connected to the Machine using private key with ec2-user in MobaXterm Personal 25.2



Logged in to the machine using private key



Installed nginx using commands :

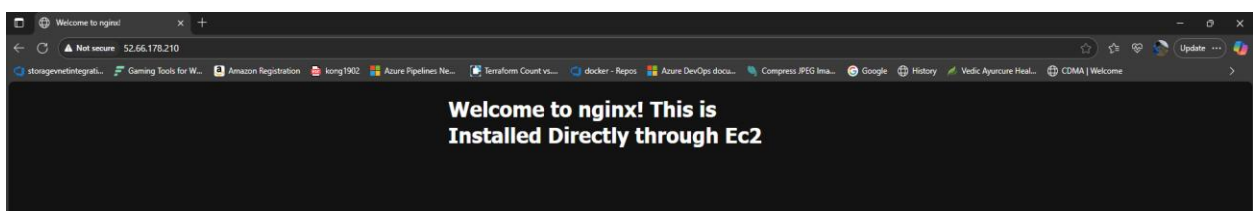


Successfully running Nginx

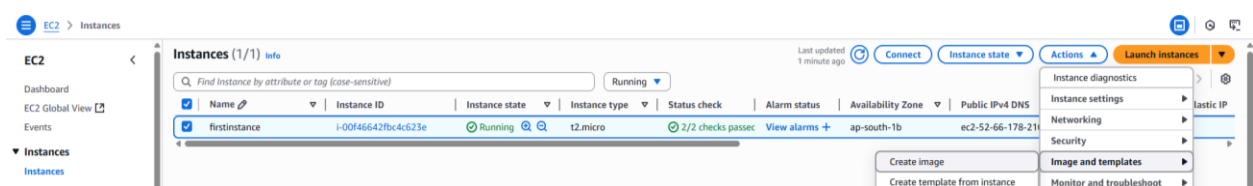
Commands used :

1. `sudo -i` # Become root
2. `dnf update -y` # Update repos
3. `dnf install nginx -y` # Install NGINX
4. `systemctl start nginx` # Start NGINX service
5. `systemctl status nginx` # Check NGINX is running
6. `systemctl enable nginx` # Enable auto-start on boot

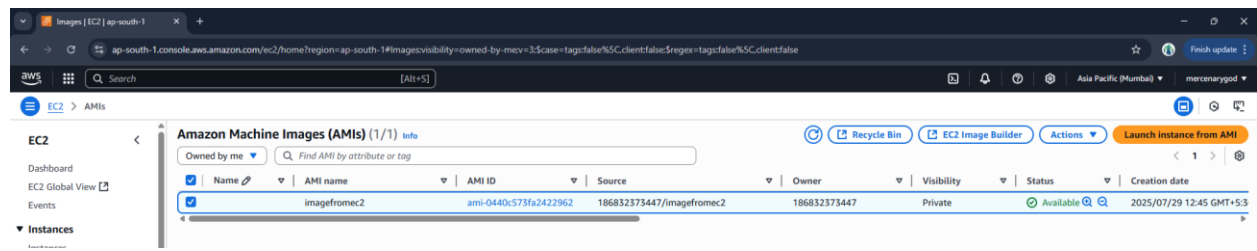
Nginx is accessible through browser: perfectly up and running



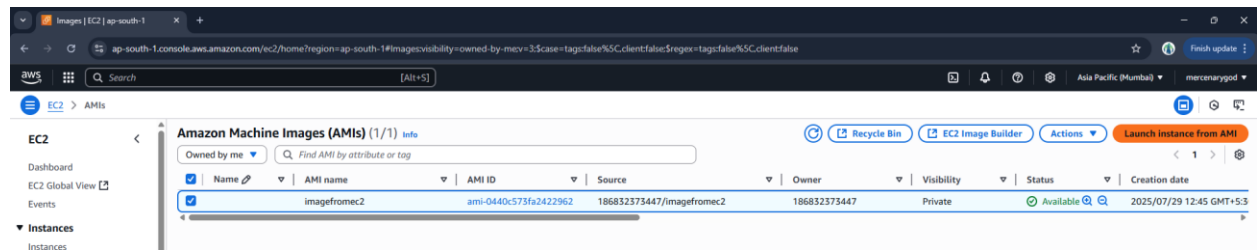
Creating image(AMI) from the Instance



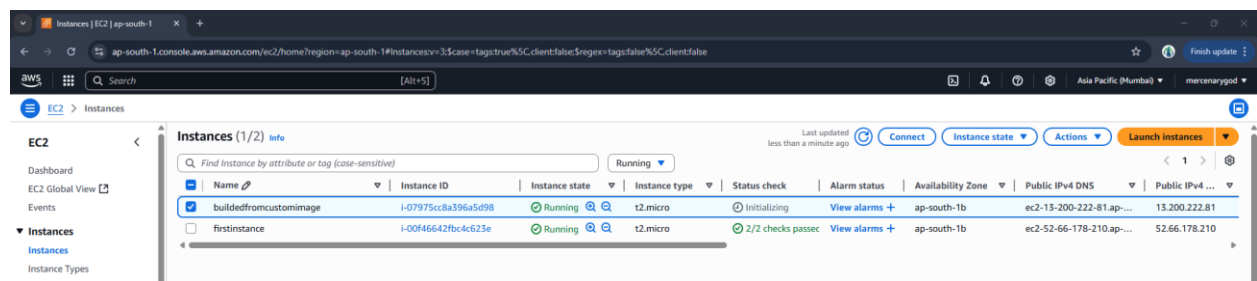
Created image successfully with name: imagefromec2



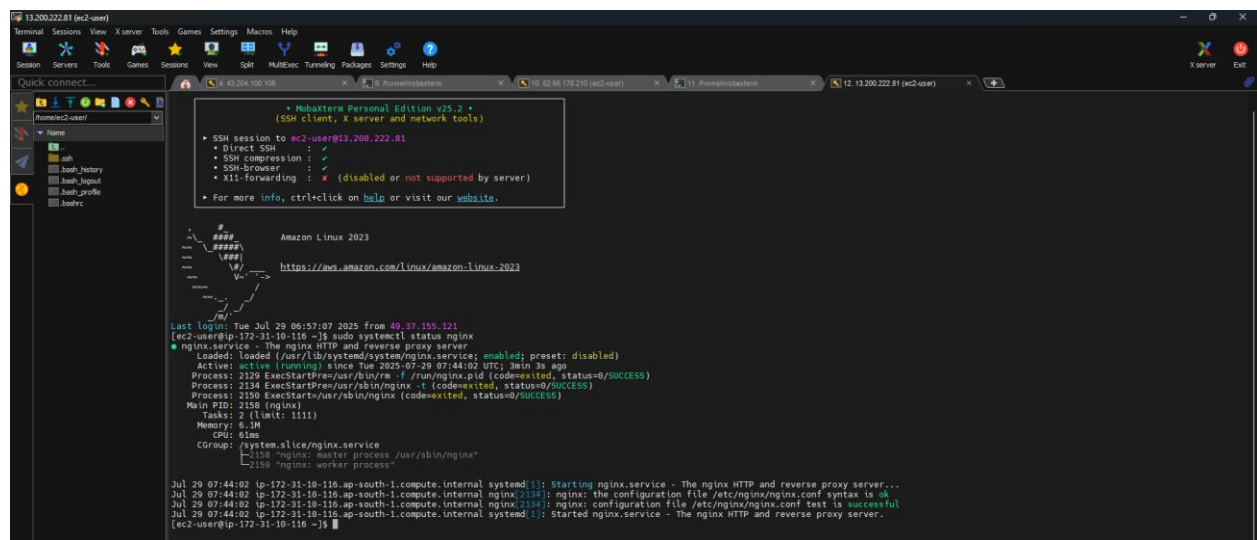
Launching Ec2 from Custom image



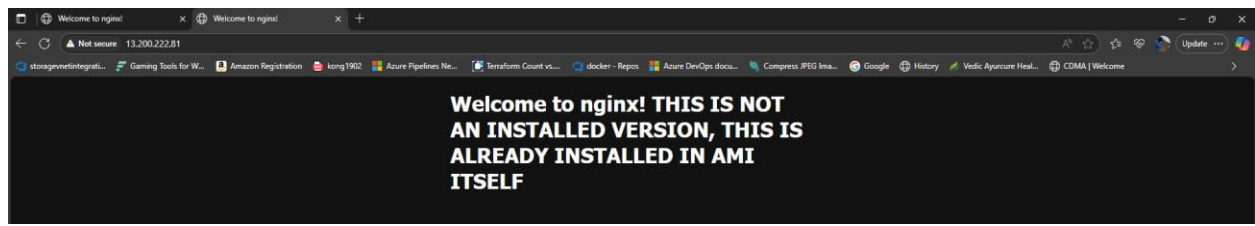
Ec2 created with custom AMI with name : buildedfromcustomimage



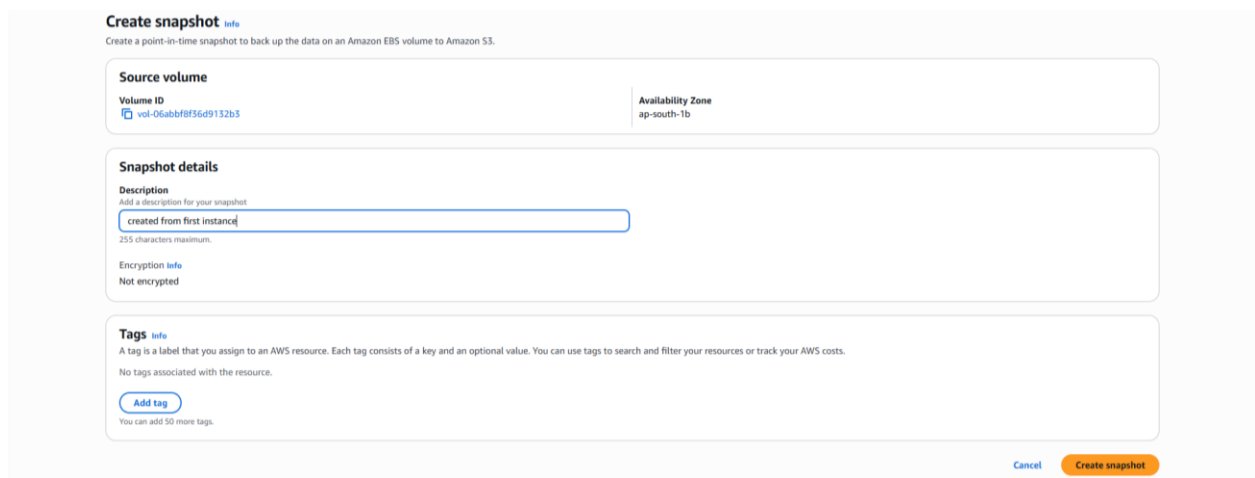
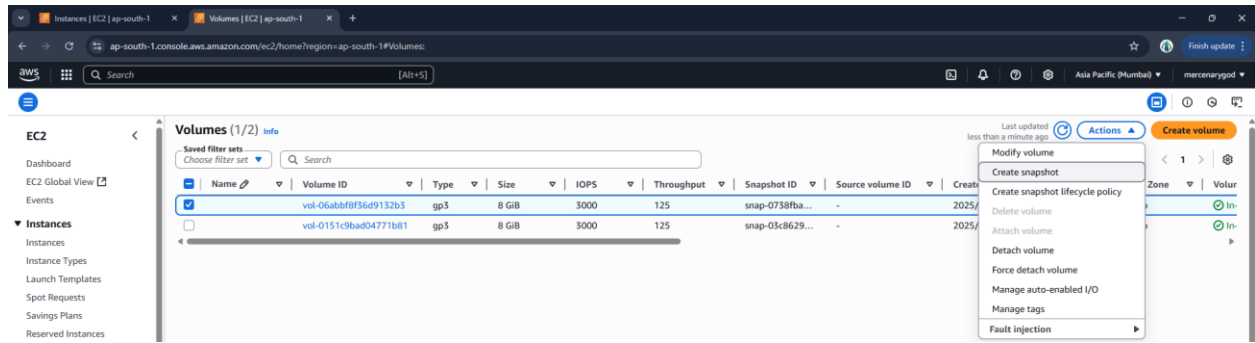
Connecting to custom image ec2 using MobaXterm Personal 25.2 and checked the status of nginx



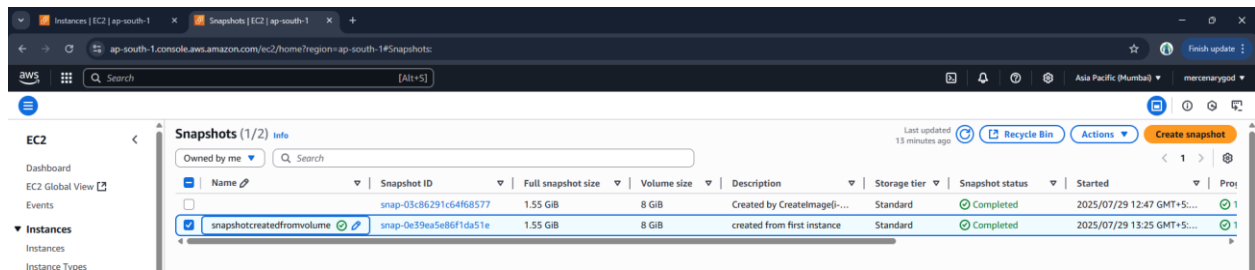
Without installing nginx it is up and running



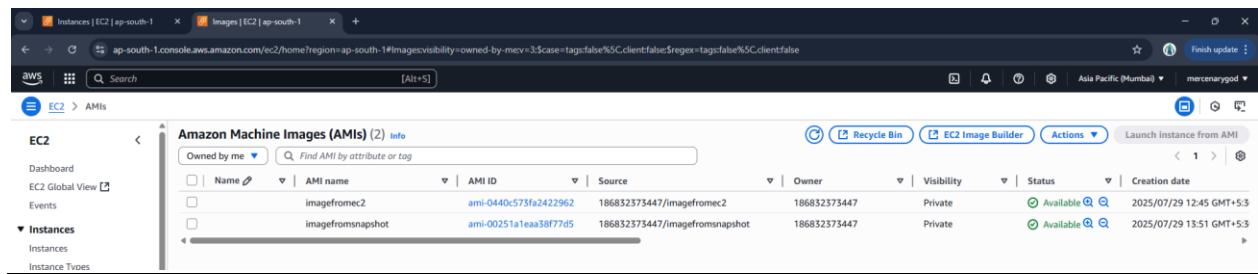
Creating Snapshot from the Volume



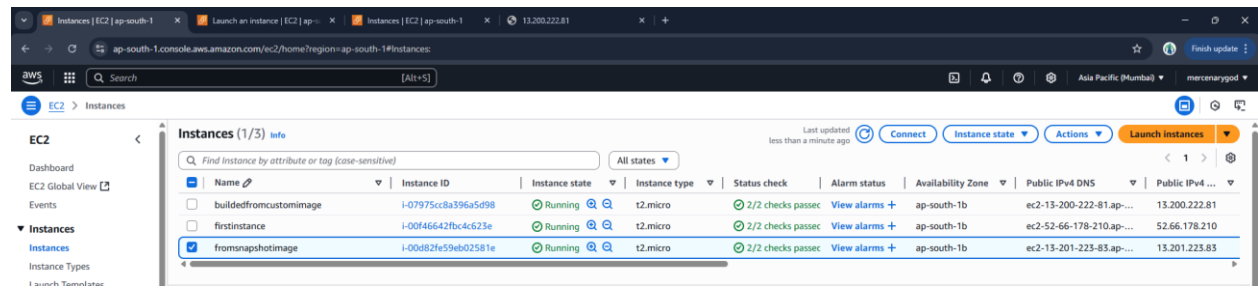
Snapshot created



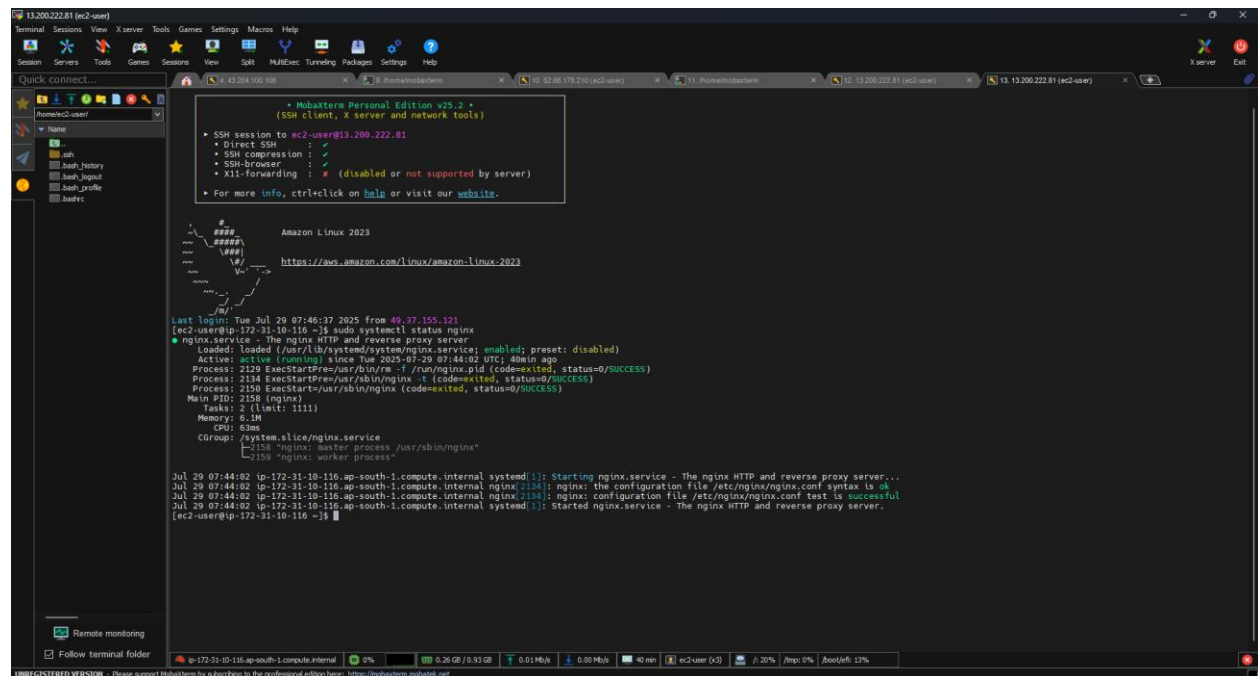
Creating image from snapshot



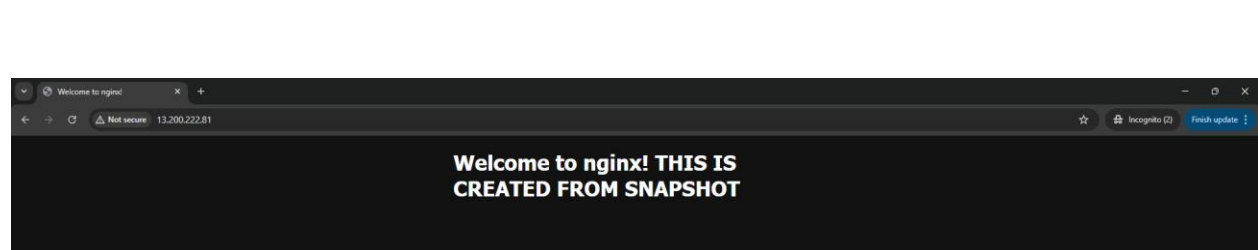
Ec2 created from snapshot



Connected through MobaXterm Personal 25.2



Nginx is properly running



Volume created from snapshot

Successfully deleted volume vol-018fd95f7d87c884b.

Volumes (1/4) info

Save filter sets Choose filter set Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Source volume ID	Created
<input type="checkbox"/>		vol-06abbf8f36d9132b3	gp3	8 GiB	3000	125	snap-0738fba...	-	2025/07/29 12:22 GMT+5:30
<input type="checkbox"/>		vol-0151c9bad04771b81	gp3	8 GiB	3000	125	snap-03c8629...	-	2025/07/29 13:13 GMT+5:30
<input type="checkbox"/>		vol-012456dd00404dc69	gp3	8 GiB	3000	125	snap-0e39ea5...	-	2025/07/29 13:53 GMT+5:30
<input checked="" type="checkbox"/>	created from snapshot	vol-049127336f31a00fc	gp3	8 GiB	3000	125	snap-03c8629...	-	2025/07/29 14:26 GMT+5:30

Attaching volume to ec2 instance

Successfully deleted volume vol-018fd95f7d87c884b.

Volumes (1/4) info

Save filter sets Choose filter set Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Source volume ID	Created
<input type="checkbox"/>		vol-06abbf8f36d9132b3	gp3	8 GiB	3000	125	snap-0738fba...	-	2025/07/29 12:22 GMT+5:30
<input type="checkbox"/>		vol-0151c9bad04771b81	gp3	8 GiB	3000	125	snap-03c8629...	-	2025/07/29 13:13 GMT+5:30
<input type="checkbox"/>		vol-012456dd00404dc69	gp3	8 GiB	3000	125	snap-0e39ea5...	-	2025/07/29 13:53 GMT+5:30
<input checked="" type="checkbox"/>	created from snapshot	vol-049127336f31a00fc	gp3	8 GiB	3000	125	snap-03c8629...	-	2025/07/29 14:26 GMT+5:30

Actions menu:

- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O

Selecting the ec2 to which the volume has to be attached

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-049127336f31a00fc (created from snapshot)

Availability Zone
ap-south-1b

Instance
i-07975cc8a396a5d98 (builtfromcustomimage) (running)

Device name
/dev/sdb

Recommended device names for Linux: /dev/vxvda for root volume, /dev/vxvdp for data volumes.

Newer Linux kernels may rename your devices to /dev/vxvdf through /dev/vxvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel Attach volume

Successfully attached the volume to the running ec2

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page displays three running EC2 instances. The instance 'i-07975cc8a396a5d98' (builtfromcustomimage) is selected, and the 'Storage' tab is active. Under 'Block devices', two volumes are listed: '/dev/xvda' (vol-0151c9ba04771b81) and '/dev/sdb' (vol-049127336f31a00fc). Both volumes are attached and in use. The 'Volume monitoring' section shows metrics for the selected volume.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
builtfromcustomimage	i-07975cc8a396a5d98	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-203-219-247.ap...	13.203.219.247
firstinstance	i-00f46642fbc4c623e	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-52-66-178-210.ap...	52.66.178.210
fromsnapshotimage	i-00d82fe59eb02581e	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-201-223-83.ap...	13.201.223.83

Volume ID	Device name	Volume size (GiB)	Volume State	Attachment status	Attachment time	Encrypted	KMS key ID	De
vol-0151c9ba04771b81	/dev/xvda	8	In-use	Attached	2025/07/29 13:15 GMT+5:30	No	-	Ye
vol-049127336f31a00fc	/dev/sdb	8	In-use	Attached	2025/07/29 14:29 GMT+5:30	No	-	No

DELETING RESOURCES

Deleting EC2 instances

The screenshot shows the 'Instances' page with three instances. The 'Actions' dropdown menu is open, showing options: Stop instance, Start instance, Reboot instance, Hibernate instance, and Terminate (delete) instance. The 'Terminate (delete) instance' option is highlighted.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availa	Public IPv4 DNS	Public IPv4 ...
builtfromcustomimage	i-07975cc8a396a5d98	Running	t2.micro	2/2 checks passed	View alarms +	ap-sou	-247.ap...	13.203.219.247
firstinstance	i-00f46642fbc4c623e	Running	t2.micro	2/2 checks passed	View alarms +	ap-sou	210.ap...	52.66.178.210
fromsnapshotimage	i-00d82fe59eb02581e	Running	t2.micro	2/2 checks passed	View alarms +	ap-sou	ec2-13-201-223-83.ap...	13.201.223.83

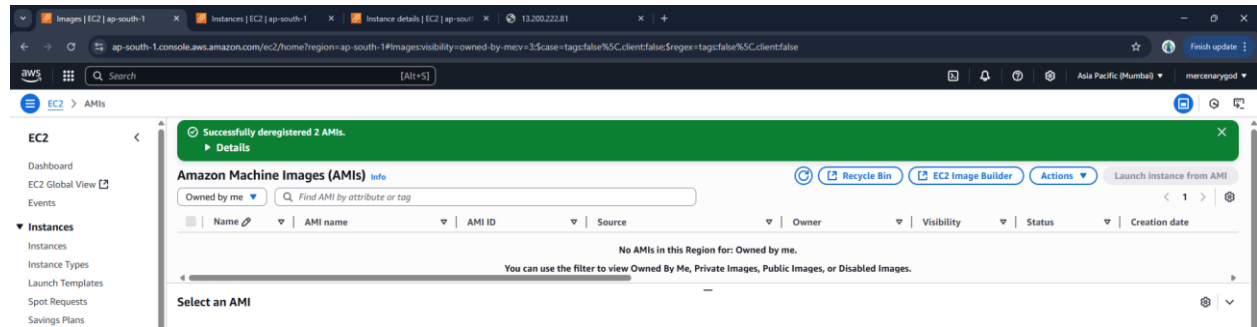
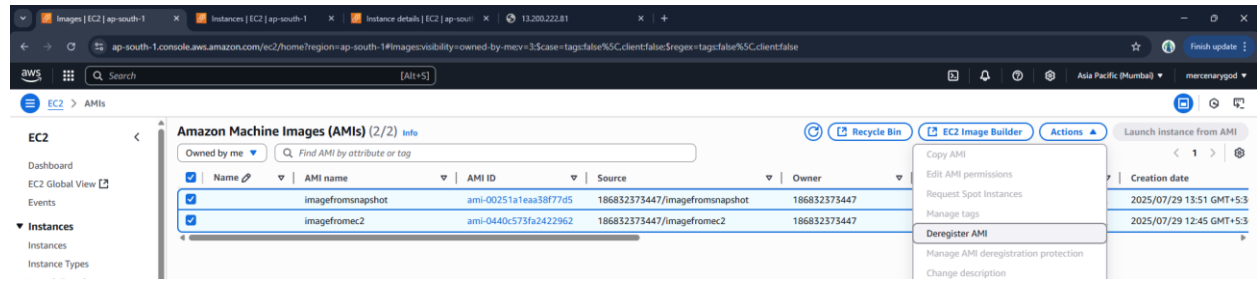
Successfully Deleted all the Instances

The screenshot shows the 'Instances' page with a green notification banner at the top: 'Successfully initiated termination (deletion) of i-07975cc8a396a5d98, i-00f46642fbc4c623e, i-00d82fe59eb02581e'. The instances are now in a 'Shutting-down' state.

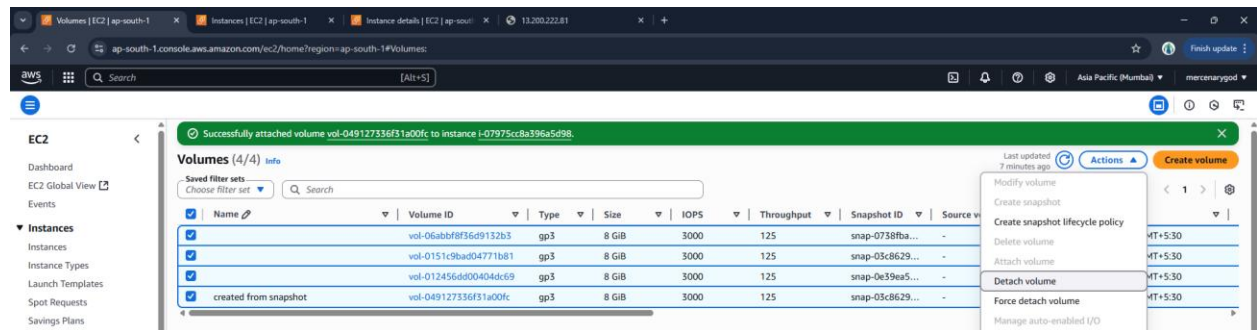
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
builtfromcustomimage	i-07975cc8a396a5d98	Shutting-down	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-203-219-247.ap...	13.203.219.247
firstinstance	i-00f46642fbc4c623e	Shutting-down	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	-	-
fromsnapshotimage	i-00d82fe59eb02581e	Shutting-down	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	-	-

To Delete an AMI it has to be Deregistered First

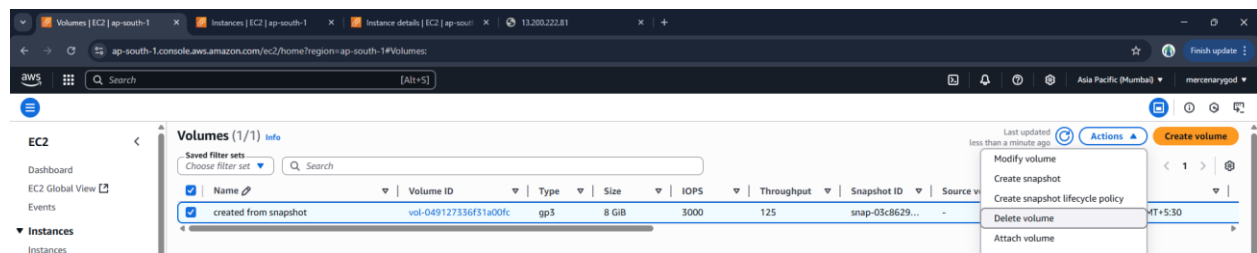
Deregistering AMI's to Delete



Detach volumes



Delete volumes



Delete snapshots

