

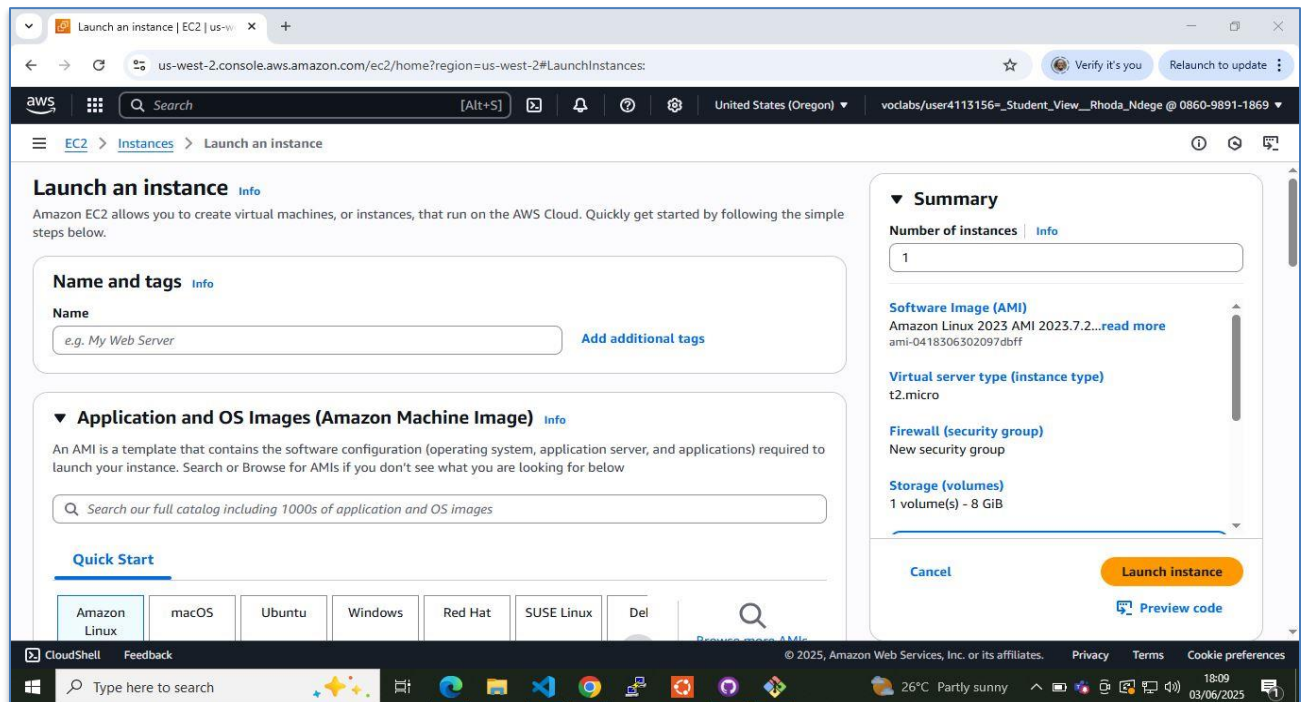
How to Launch and Manage EC2 Instances using AMIs in AWS

Step 1: Log In to AWS Management Console.

- Go to [Cloud Computing Services - Amazon Web Services \(AWS\)](#)
- Sign In with your Credentials

Step 2: Launch an Instance

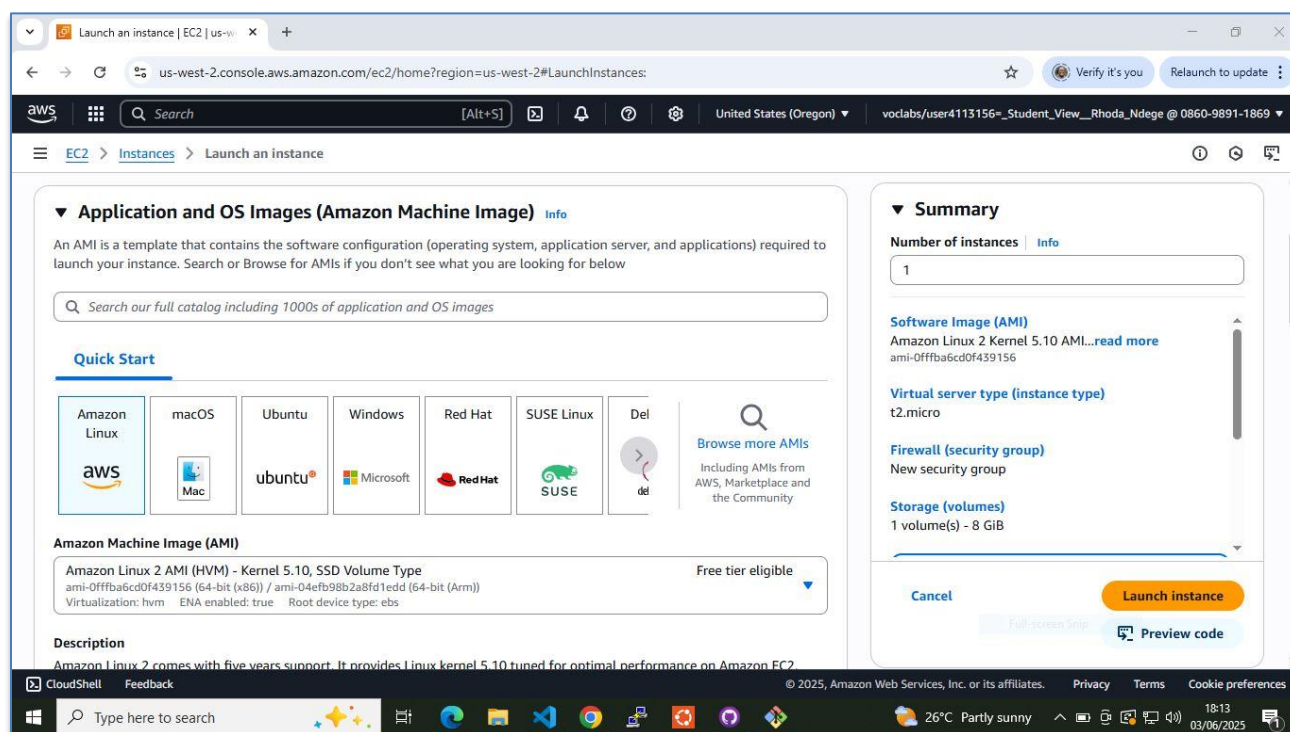
1. Go to the **EC2 Dashboard**
2. Click **Launch Instance**
3. Under **Name and Tags**, Enter the **Name** of your Instance (e.g. *FirstInstance*)



Step 3: Choose an AMI

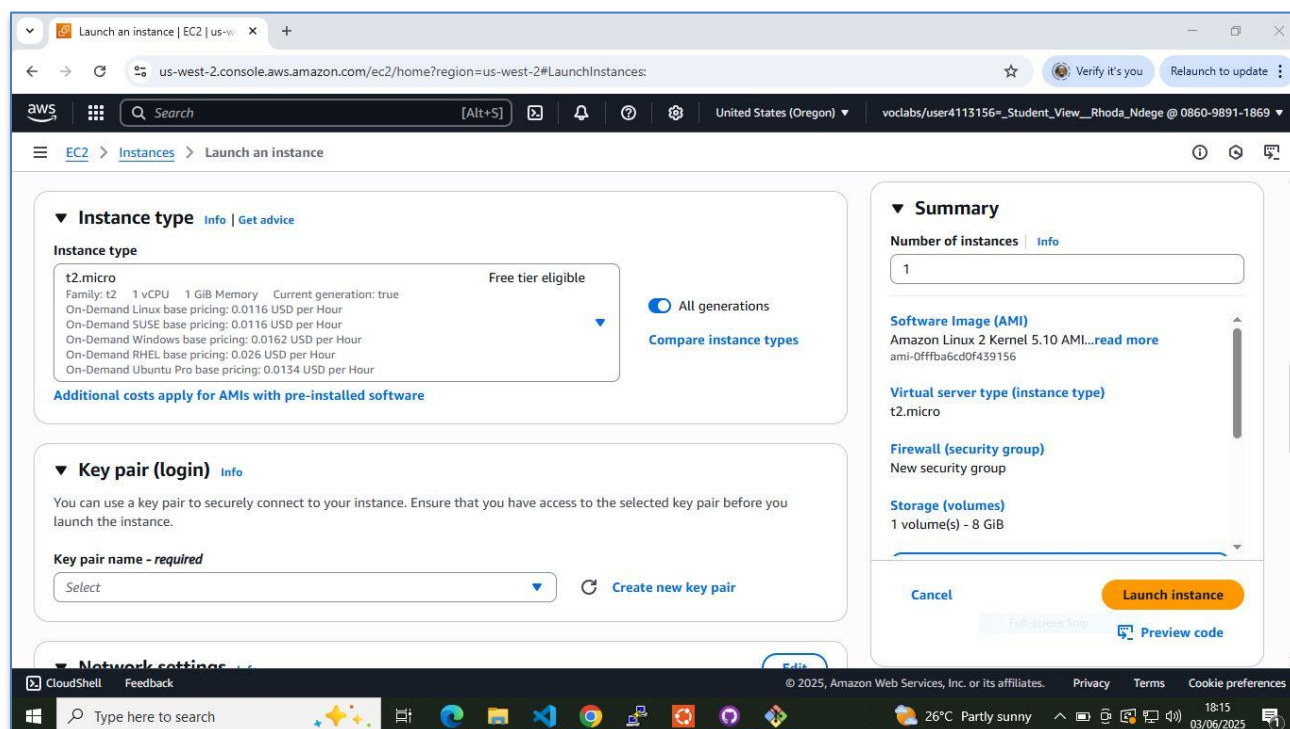
Under **Application and OS Images (Amazon Machine Images)**, choose from available AMIs.

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance.



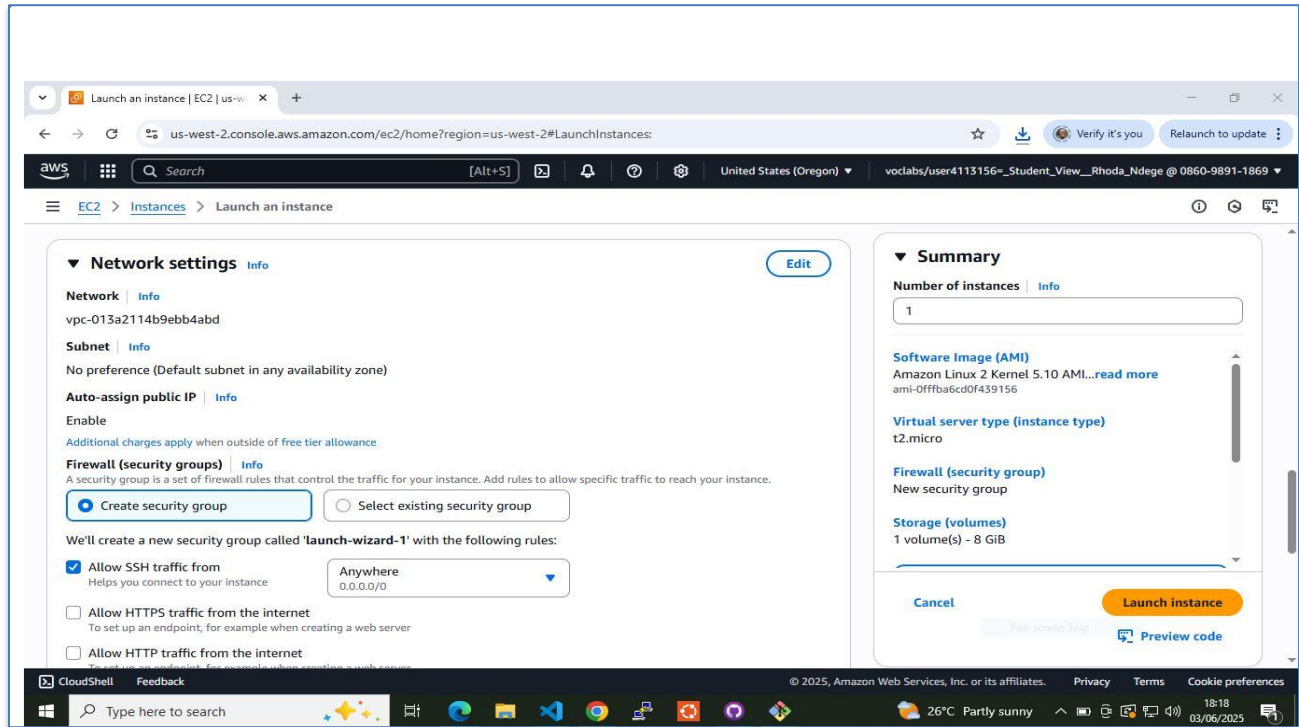
Step 4: Choose Instance Type & Key Pair (login)

1. Select an **Instance Type** (e.g. *t2.micro* for free tier)
2. Under **Key pair (Login)**, for **Key pair name**, choose an existing key pair, or **Click Create a new Key pair** to create your own Key pair.
Key pairs allow you to connect securely to your instance.



Step 5: Configure Network Settings

1. Network: Default VPC
2. Subnet: Default or Custom
3. Security Group: Add rules for **SSH (port 22)** to allow access.
Optionally add **HTTP/HTTPS** if you're hosting a web server.
4. Leave the rest as default unless otherwise required. If so, Click **Edit** to Update the network settings.

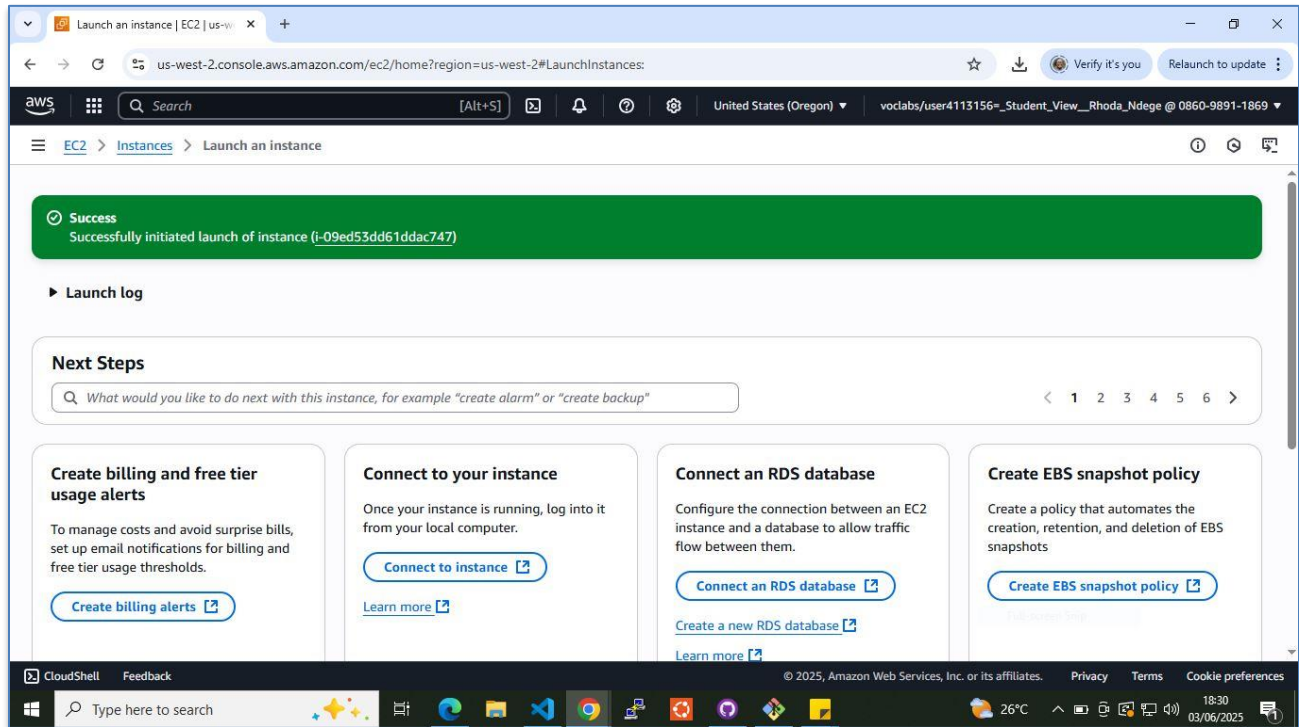


Step 6: Configure Storage

Configure the root volume and not the data volume. This is great for testing.

Step 7: Review & Launch

1. On the **Summary Panel**: Review your Instance configuration.
2. Click **Launch**

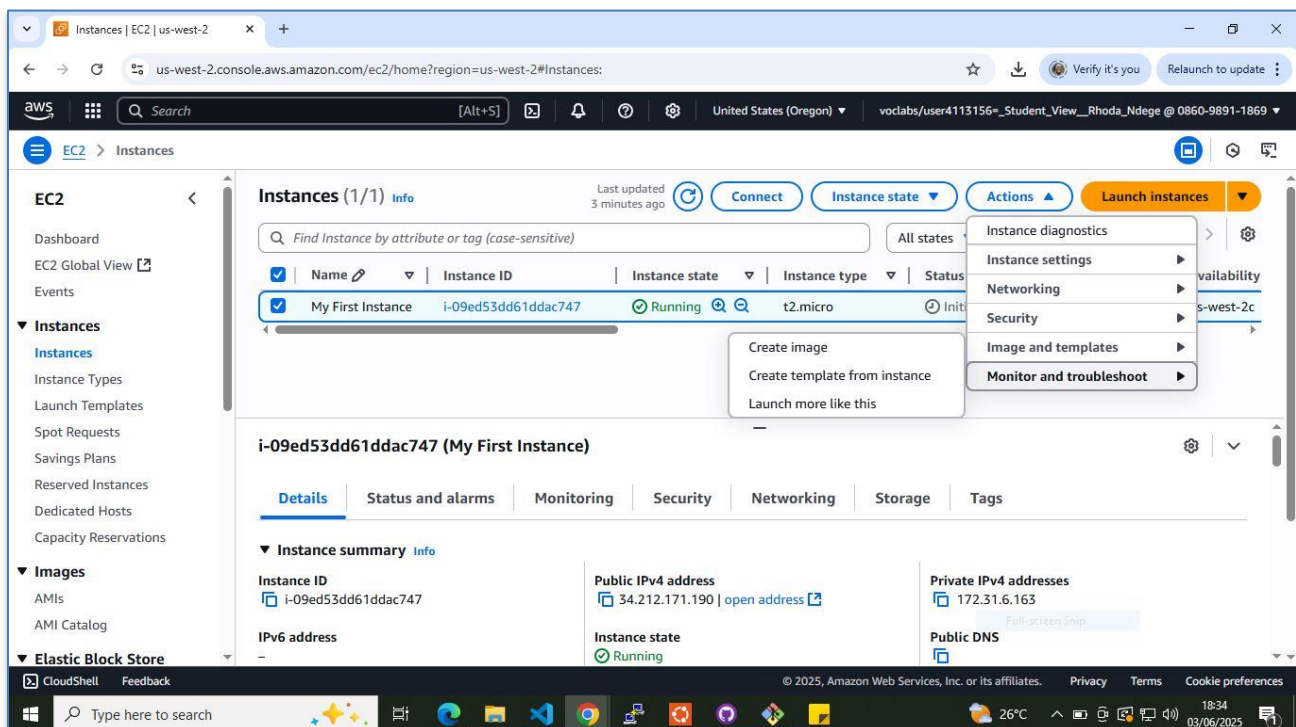


Click **View Instances** if the Instance is Successfully Launched. Open the Instances page and monitor the status of the launched instance.

Steps of Creating and Using AMI Templates

Creating an AMI from your own Instance (like your *FirstInstance*)

1. Click the checkbox next to your running Instance (*FirstInstance*)
2. Go to Actions → Images and Templates → Create Image

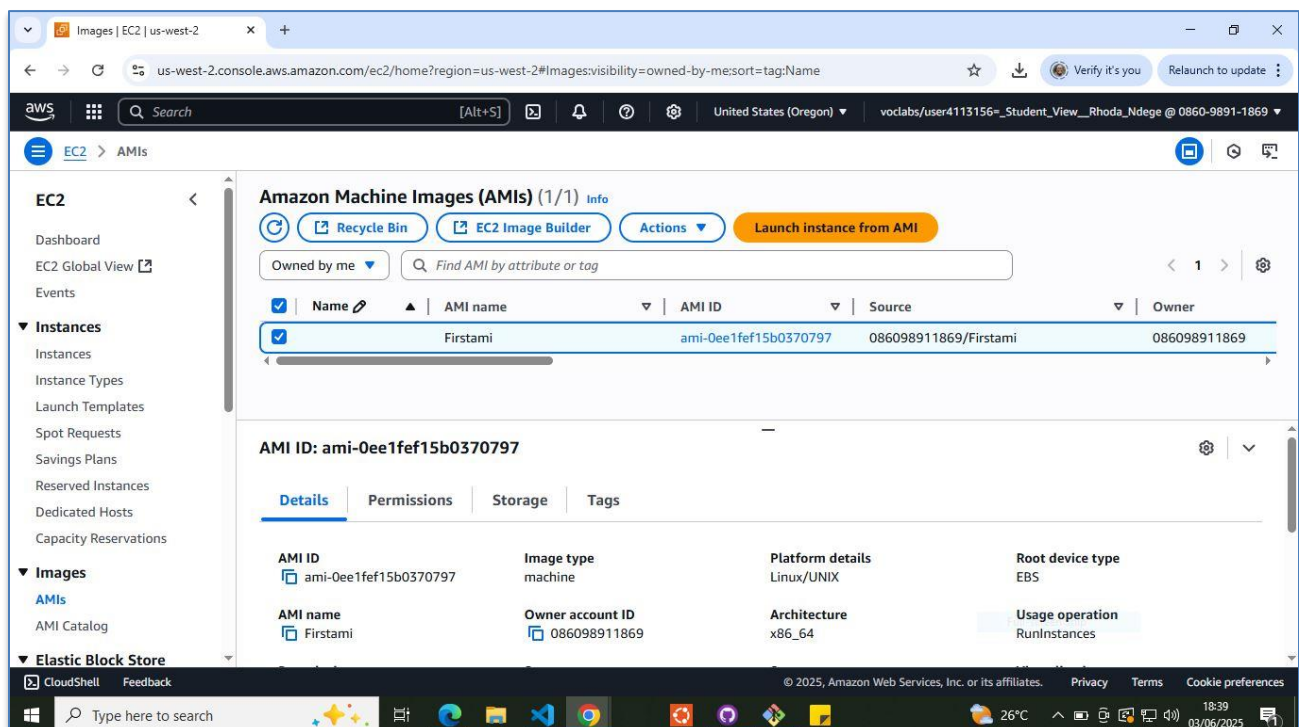
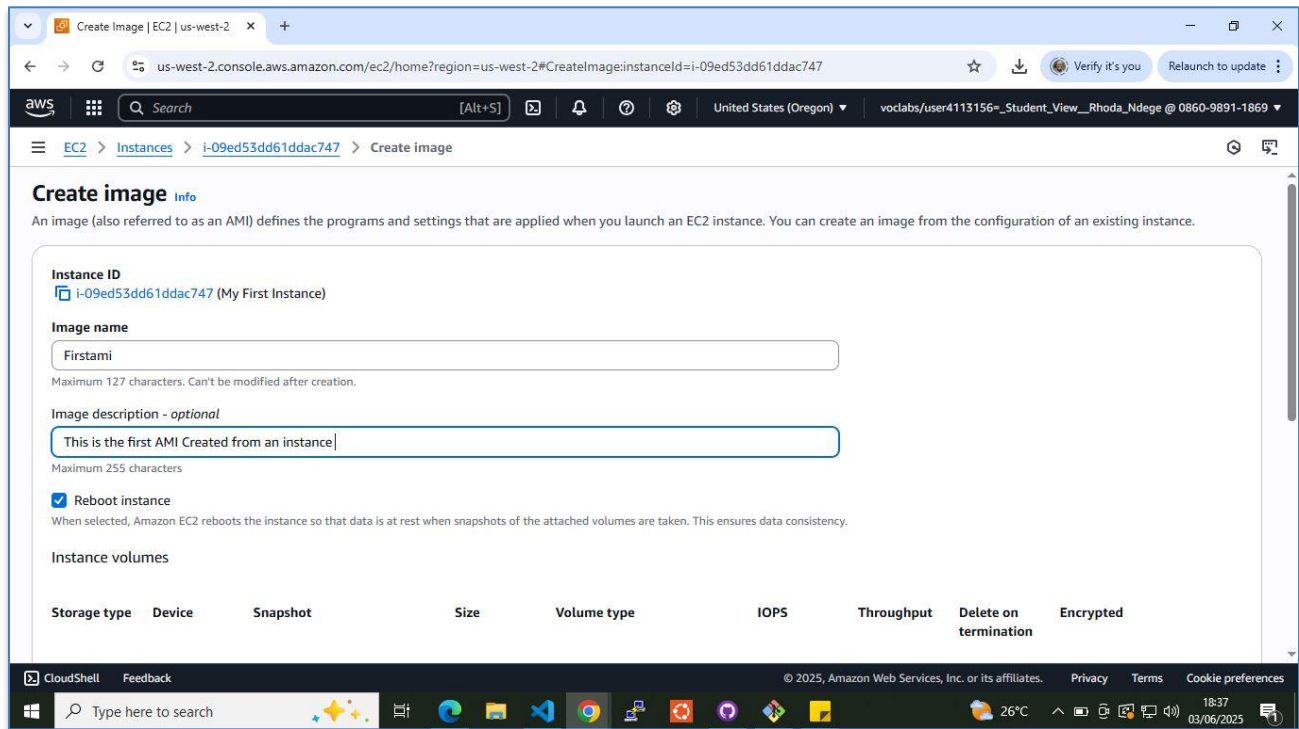


Fill In:

- Image Name (e.g., *newami*)
- Description (optional)
- The rest of the configurations should be left as default unless you want to reboot.

Click **Create Image**

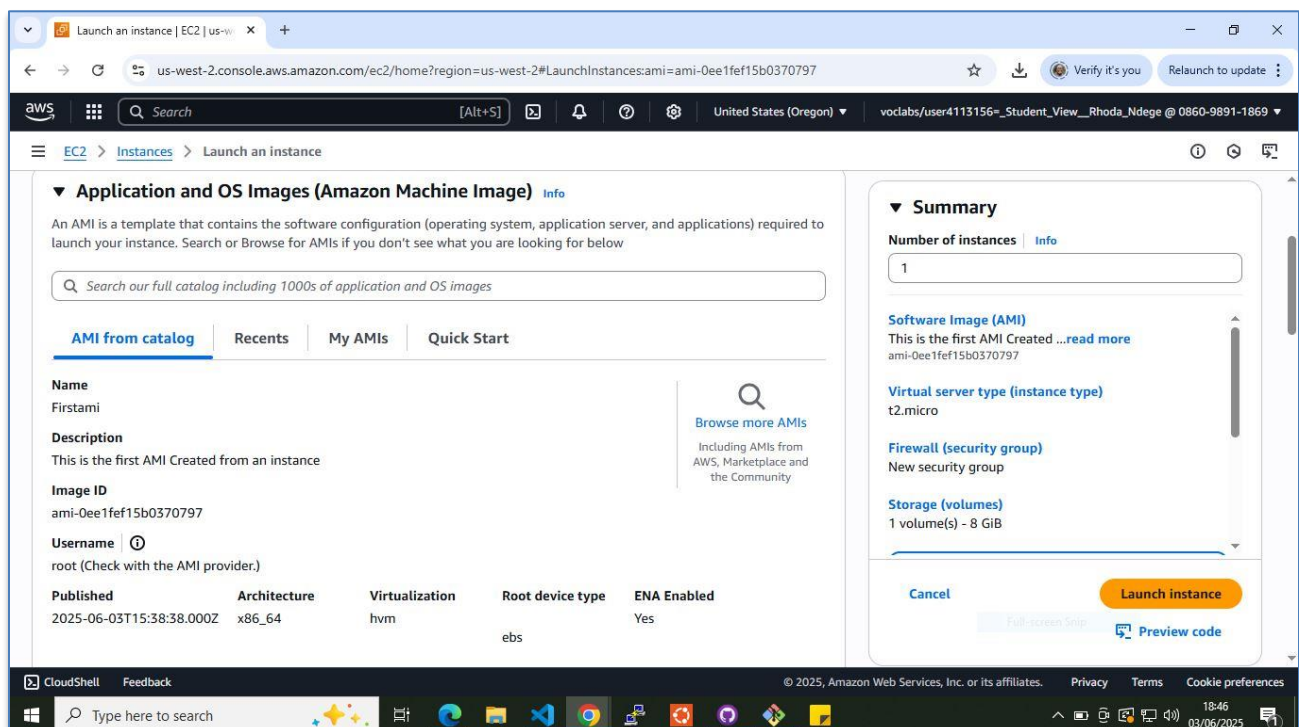
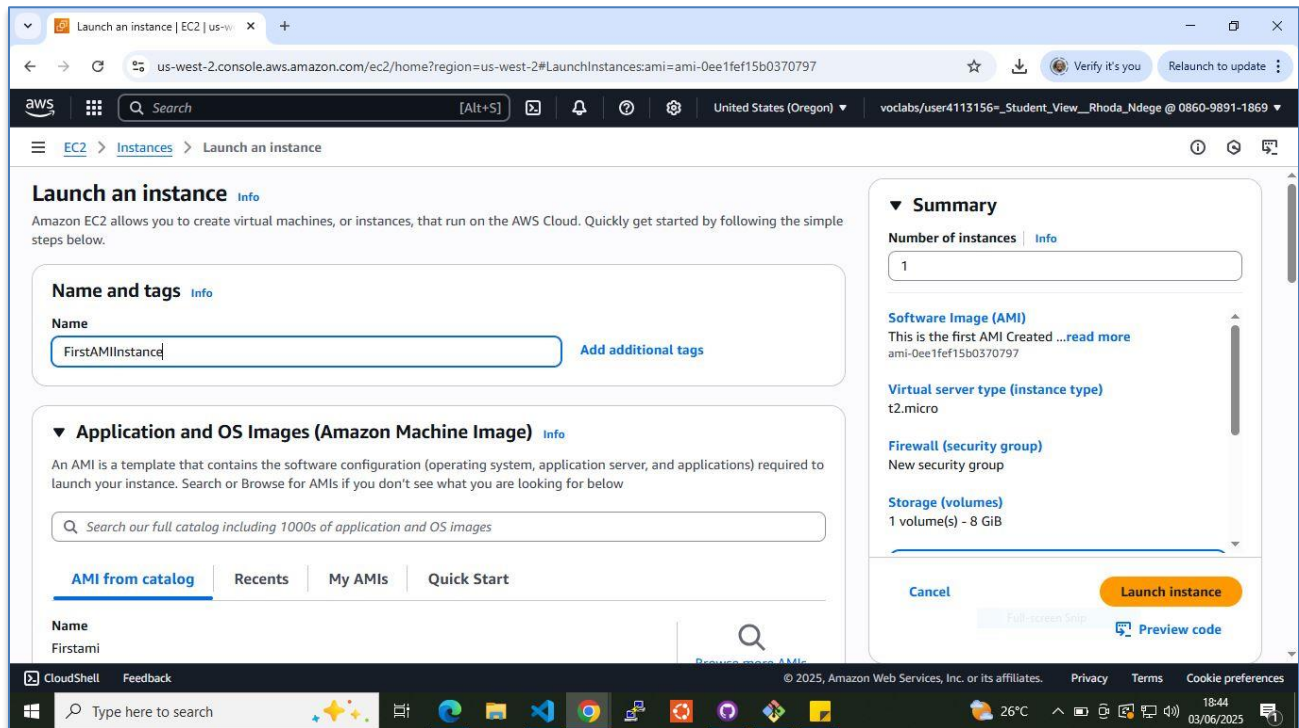
- AWS will start making snapshots

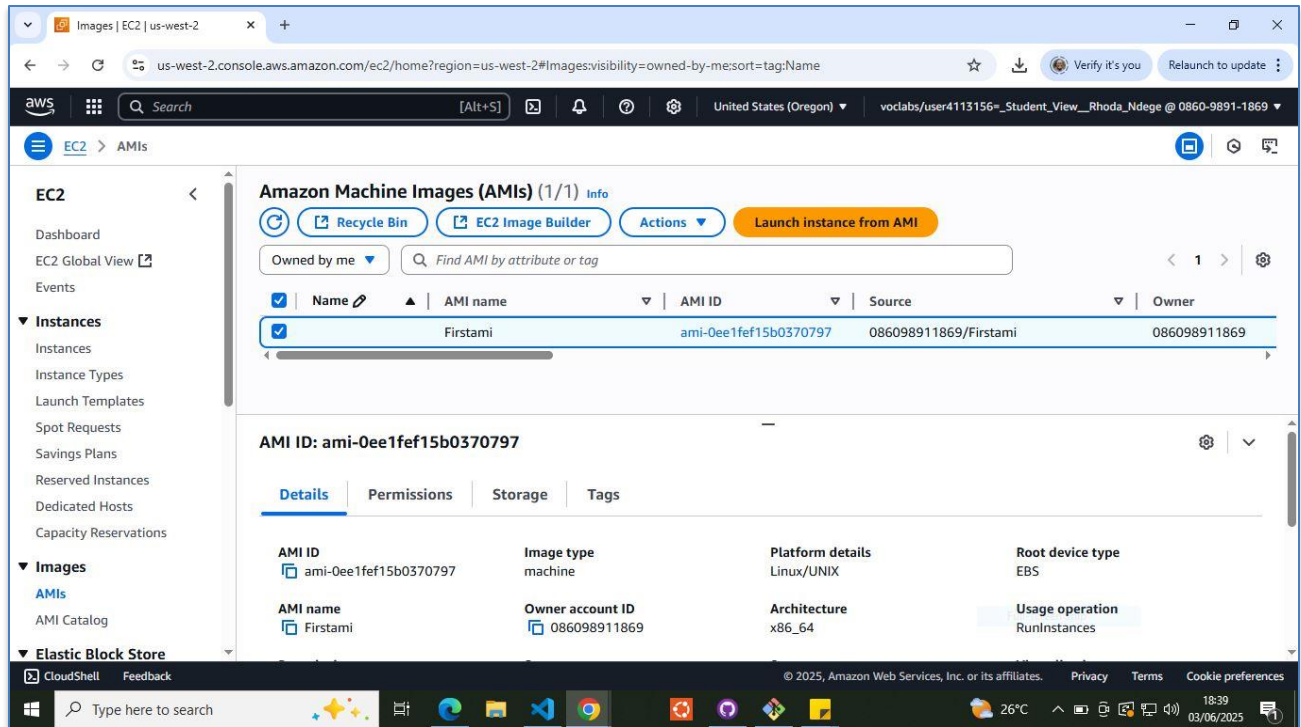


Launch a New Instance From that AMI

Once the AMI Image is ready

1. On the Left Panel, Go to **AMIs** → **Images** section
2. Select your custom AMI.
3. Click **Launch Instance from Image**
4. Choose Instance Type, Storage & Security Group
5. Click **Launch Instance**.





The screenshot shows the AWS Management Console for the 'us-west-2' region. The left sidebar contains navigation links for EC2, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and Elastic Block Store. The main content area is titled 'Amazon Machine Images (AMIs) (1/1)'. It includes a search bar and a table of AMIs. The table has columns for Name, AMI name, AMI ID, Source, and Owner. One AMI is listed: 'Firstami' with AMI ID 'ami-0ee1fef15b0370797'. Below the table, the details for the selected AMI are shown, including AMI ID, Image type, Platform details, Root device type, AMI name, Owner account ID, Architecture, and Usage operation.

Amazon Machine Images (AMIs) (1/1)

Owned by me

<input checked="" type="checkbox"/>	Name	AMI name	AMI ID	Source	Owner
<input checked="" type="checkbox"/>	Firstami		ami-0ee1fef15b0370797	086098911869/Firstami	086098911869

AMI ID: ami-0ee1fef15b0370797

Details | Permissions | Storage | Tags

AMI ID ami-0ee1fef15b0370797	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name Firstami	Owner account ID 086098911869	Architecture x86_64	Usage operation RunInstances

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