# CI/CD in-sem Lab Exam

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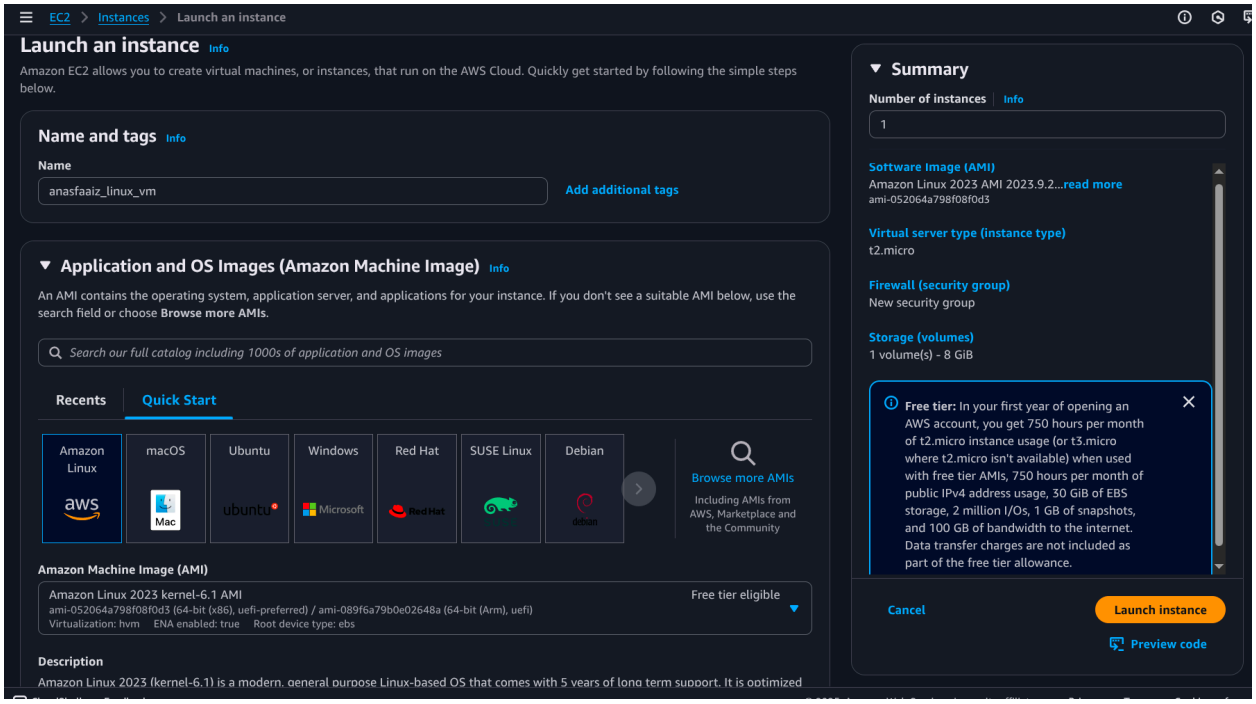
Q) **Lauch a Linux virtual machine in AWS and access the same from a local machine which has linux OS**

Step 1: Navigate to the EC2 Dashboard

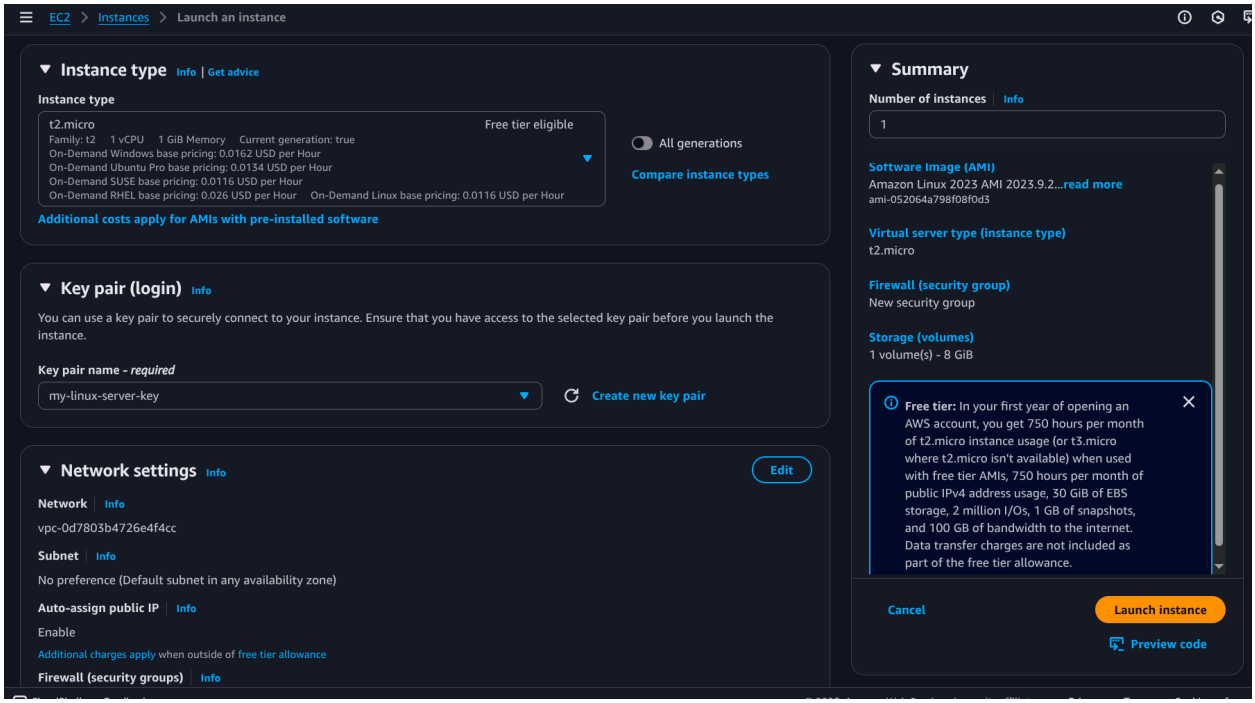
Step 2: Start the Instance Launch Process




Step 3: Name and Choose the Operating System (AMI)

- Name: Give your instance a name, for example, **“`anasfaaiz_linux_vm`”.**

- Application and OS Images (AMI): Select Amazon Linux. The **“`Amazon Linux 2023`”**




Step 4: Select the Instance Type

- Scroll down to the "Instance type" section.
- Choose **`t2.micro`**,

Step 5: Create a Secure Key Pair

- In the "Key pair (login)" section, click on Create new key pair.
- Click Create key pair. Your browser will immediately download the **`.pem`** file.

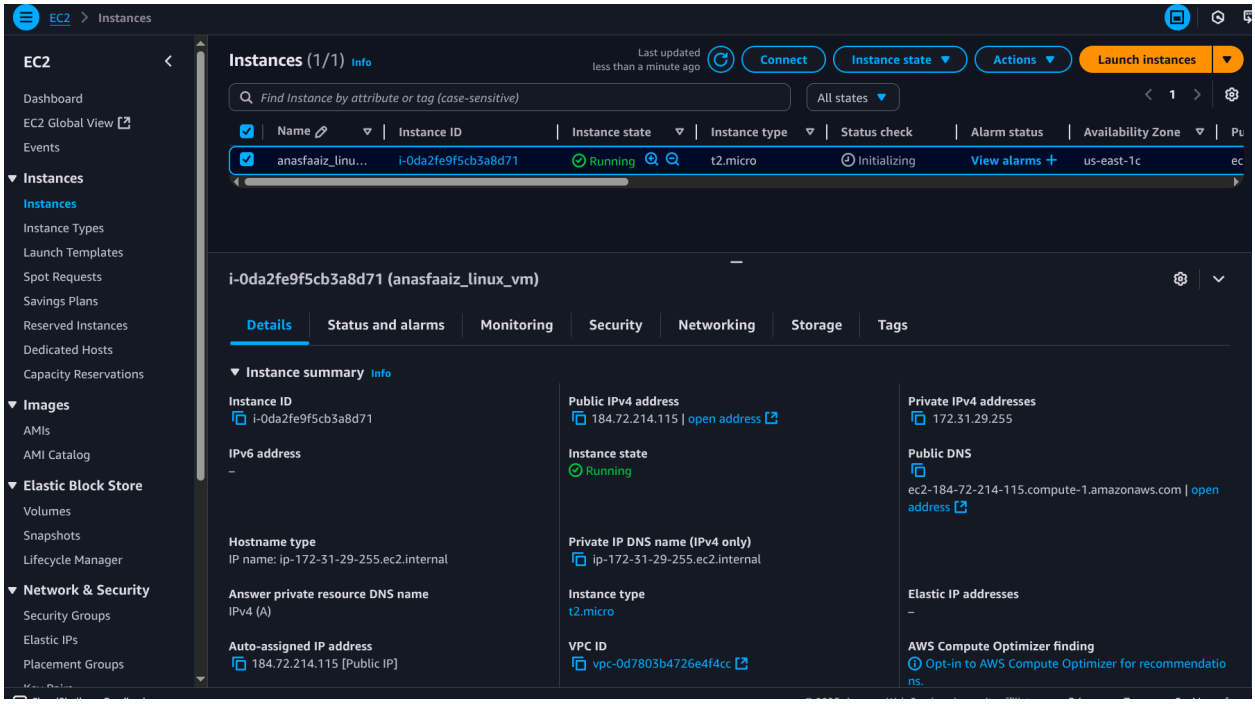
Step 6: Configure Network and Firewall (Security Group)

- In the "Network settings" section, click Edit.
- Under "Firewall (security groups)", ensure Create security group is selected.

Step 7: Launch the Instance

- Review the details in the "Summary" panel on the right.

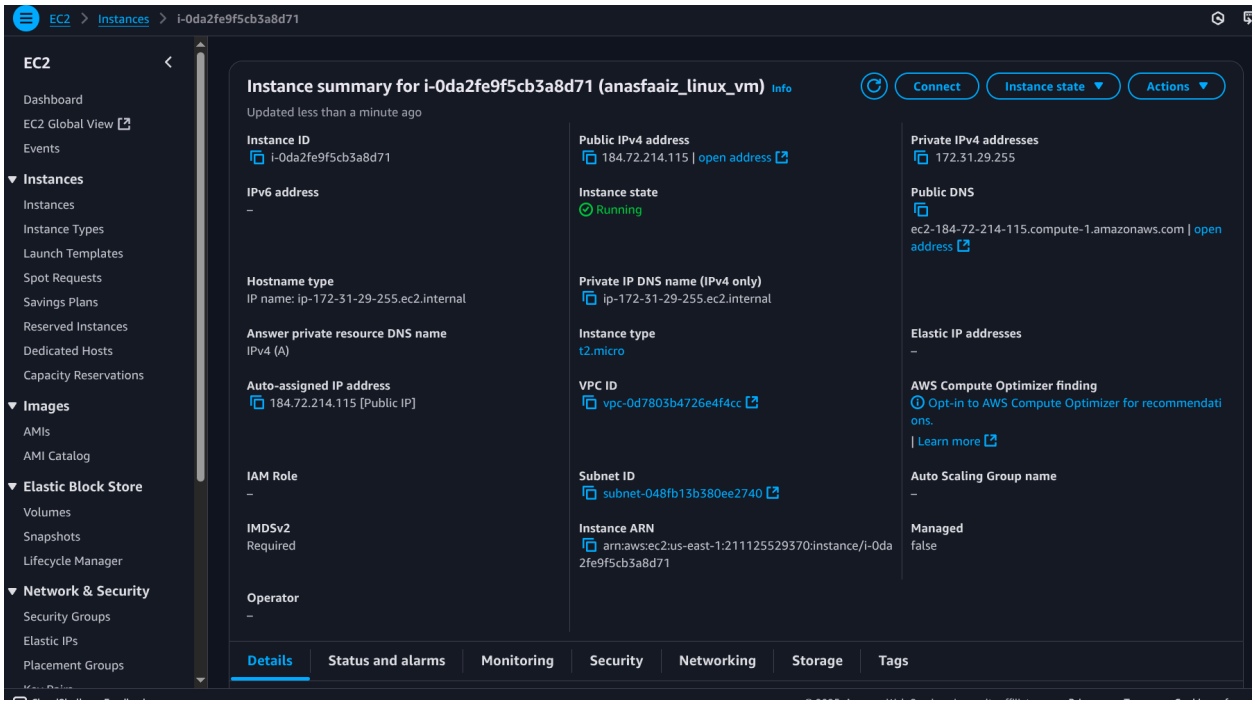
- Click the orange Launch instance button.




Step 8: Wait for the Instance and Get the Public IP Address

- After launching, click the View all instances button.
- Find your new instance in the list. Wait for a few minutes until:
    - The Instance state changes from `Pending` to `Running`.
    - The Status check changes from `Initializing` to `2/2 checks passed`.
- Once it's ready, select your instance by clicking the checkbox next to its name.

- In the "Details" tab below, find and copy the Public IPv4 address. It will be a series of numbers, like **184.72.214.115**




Step 9: Open Your Local Terminal

- On your own Linux computer, open the terminal application.

Step 10: Navigate to Your Key File's Location

Use the **`cd`** command to move into the directory where you saved your `.pem` key file. This is typically the **`Downloads`** folder.

**Bash**
**cd ~/Downloads**

Step 11: Secure Your Private Key File

Change the permissions on your key file so that only you can read it.

**Bash**
**chmod 400 my-aws-key.pem**

Step 12: Connect Using the SSH Command

- Use the **`ssh`** command with your key file, the default username (`ec2-user`),

**Bash**
**ssh -i my-aws-key.pem ec2-user@184.72.214.115**

Step 13: Accept the Host Authenticity

- The first time you connect, your terminal will show a message and ask, "Are you sure you want to continue connecting (yes/no/[fingerprint])?".
- Type yes and press Enter.