Batch No.: B.N-013/25- AWS/DEVOPS

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Topic : Creating EC2 Instance and Connecting It Using SSH.

Assignment no.: 1 - To create a Linux EC2 Instance

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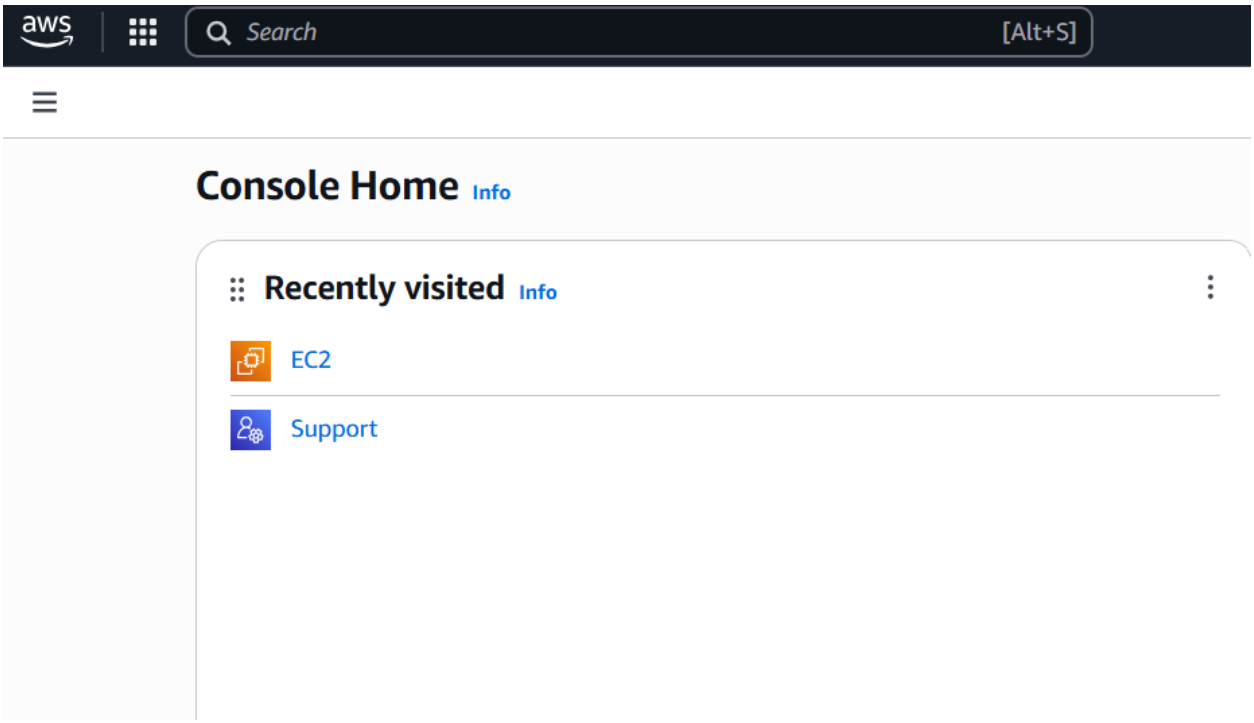
Step 1: Sign in to AWS

- Go to the AWS Console and log in using your credentials

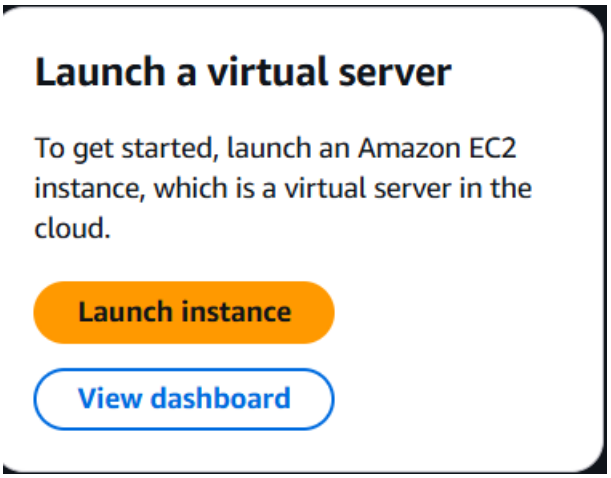
Step 2: Open EC2 Dashboard

- In the top search bar, type EC2 and select EC2 to open the EC2 Dashboard

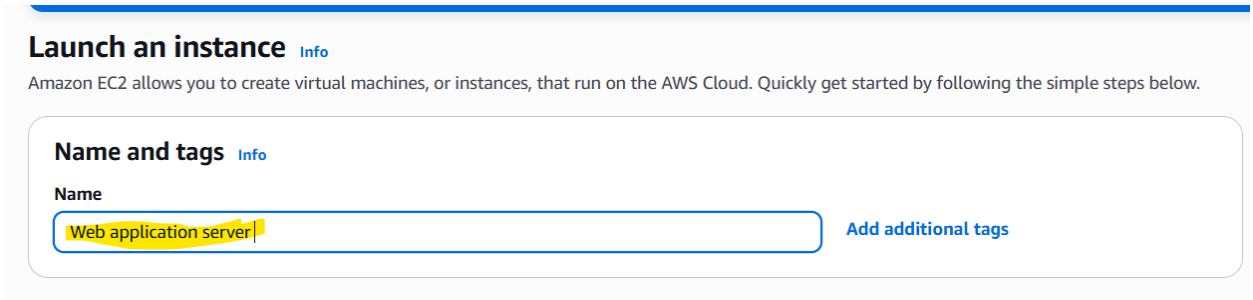


Step 3: Launch Instance

- Click the Launch Instance button to begin the process of creating a new instance.

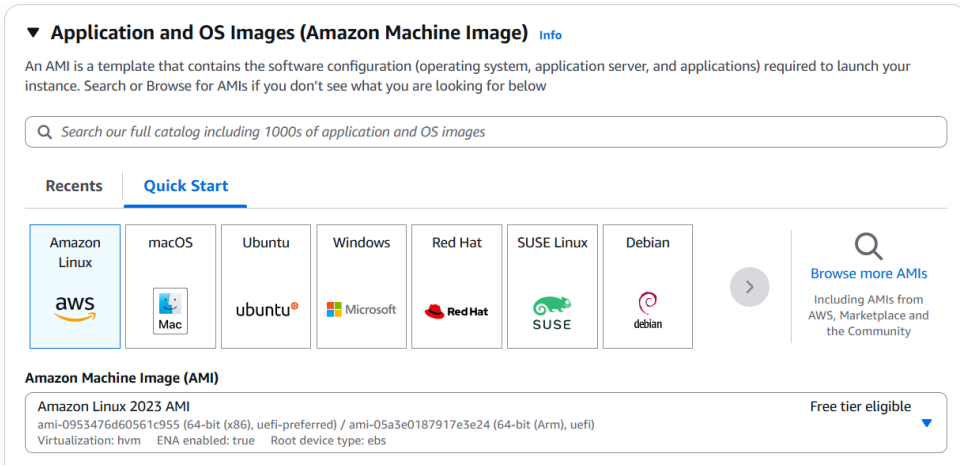


• Add Instance name as: web application server, we can add Tag (Optional).



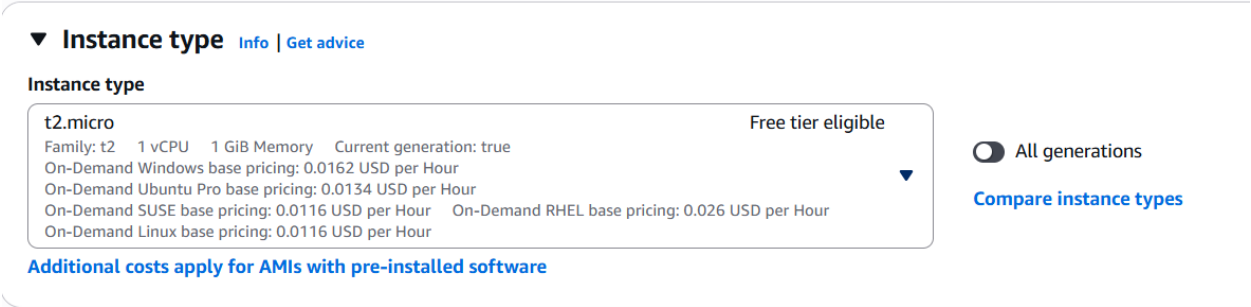
Step 4: Choose an Amazon Machine Image (AMI)

• Select an image (AMI) to use for your instance. You can choose from options like Amazon Linux, Ubuntu, or Windows, depending on what you need. As I am creating Linux machine, Therefore Amazon Linux AWS is selected.



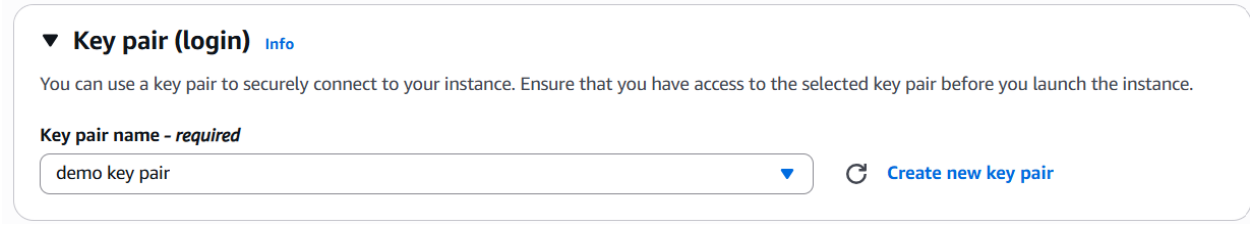
Step 5: Choose Instance Type

- Select the type of instance that fits your needs. For example, t2.micro is eligible for the free tier.

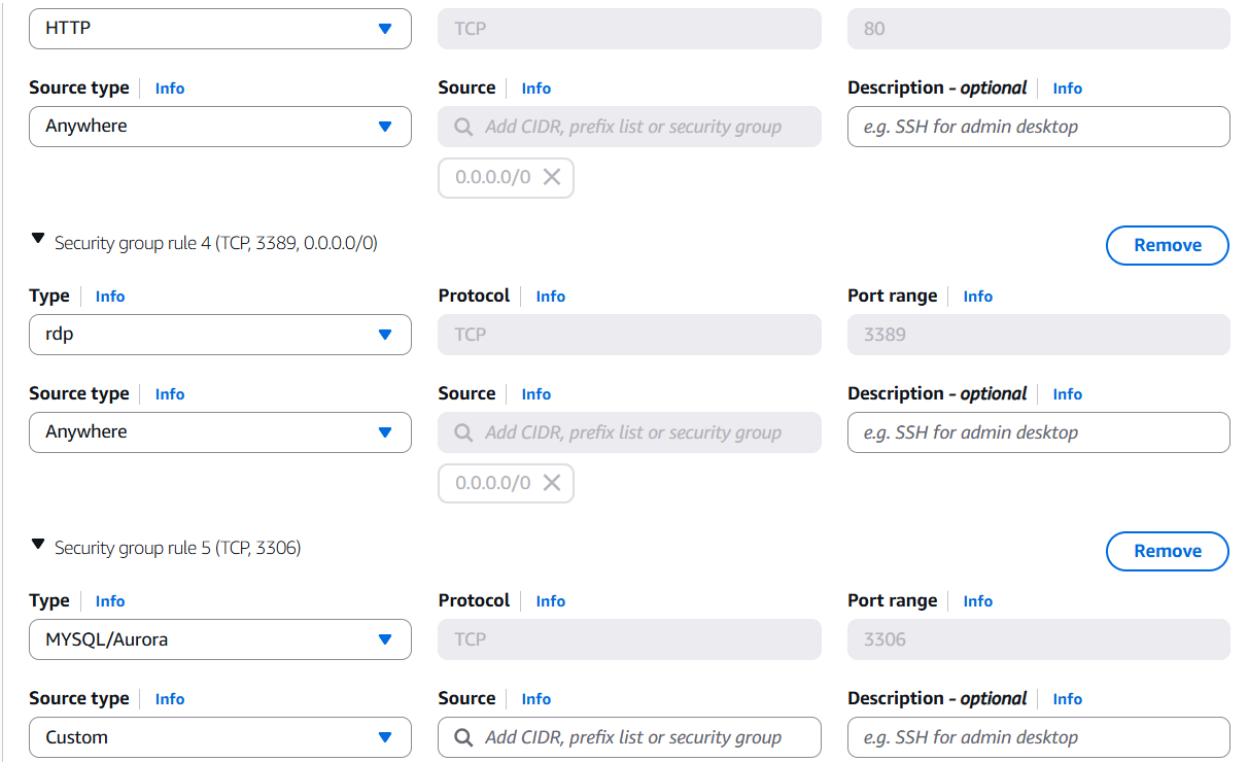


Step 6: Add Key-Pair

- Create a new key pair or use an existing one. If you create a new key pair, download the .pem file and keep it safe. This file is needed to SSH into your instance later



Step 7: Configure Instance



- Set the Network, Add security group, and Storage option
- **Set Up Security Group:**
- Create a new security group or use an existing one
- Add rules to allow traffic to your instance:

  SSH (Port 22): For Linux instances, this allows you to SSH into the instance (ensure you have the correct private key to SSH).

  RDP (Port 3389): For Windows instances, this allows you to connect via Remote Desktop Protocol (RDP

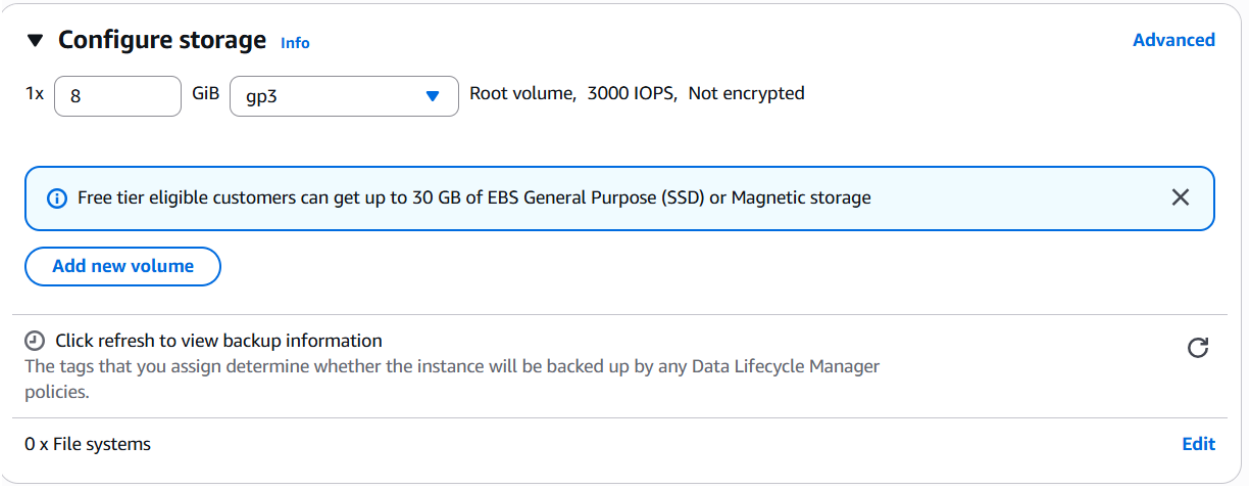
  HTTP (Port 80): If you plan to host a web server, this allows HTTP traffic.

  HTTPS (Port 443): If your website uses SSL encryption, open this port.

  MYSQL (Port 3306): If we want to connect Database, Open this port.

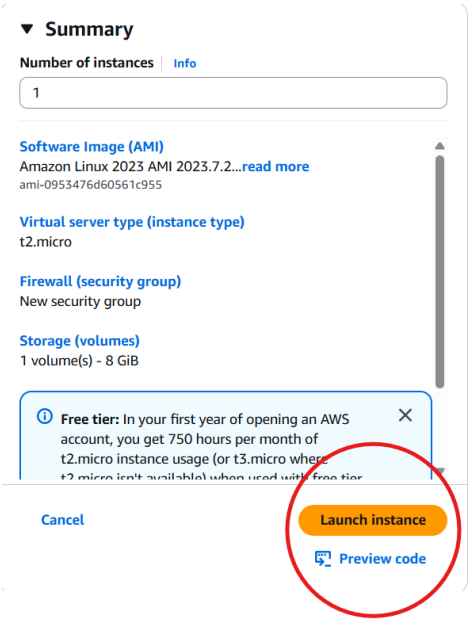
• **Step 8: Add Storage**

The default storage (usually an EBS volume) is fine for basic use. You can adjust the size if needed.



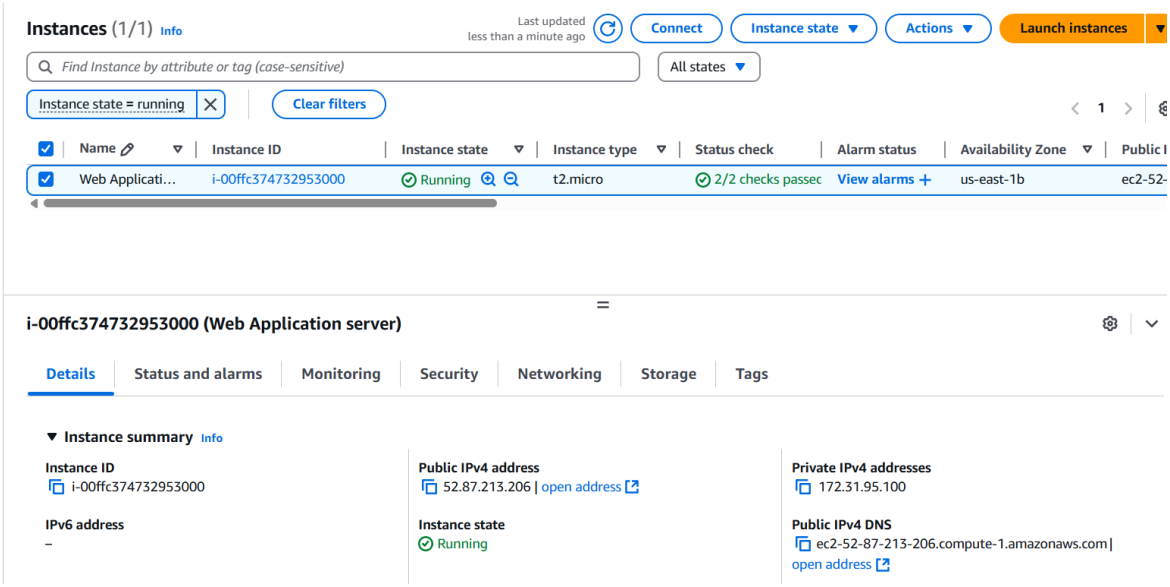
Step 8: Launch

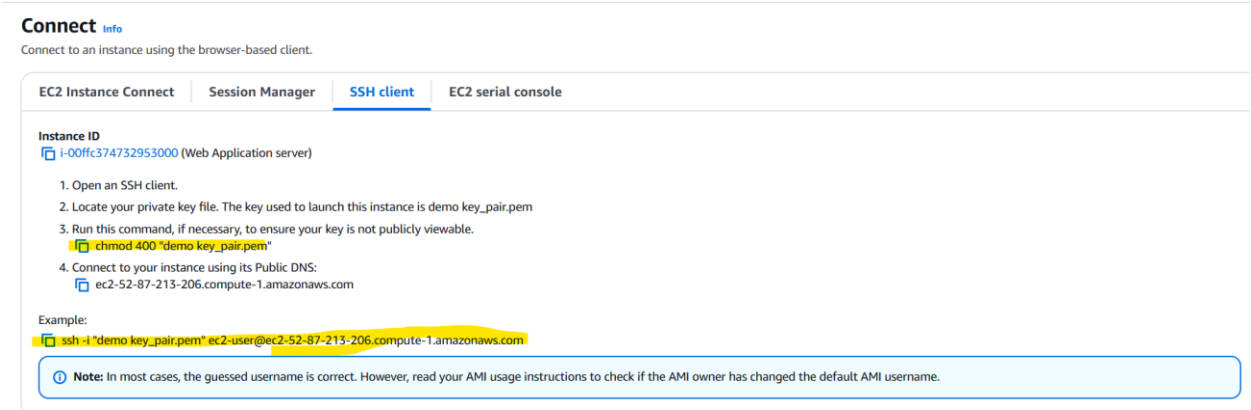
• Review all your selections and settings. If everything looks good, click the Launch button.



Step 9: Connect to Your Instance

- Once the instance is up and running, go to the Instances section in the EC2 Dashboard.
- Find the Public IP or DNS of your instance
- For Linux instances: Use the following command in your terminal to SSH into the instance:





Step 10: Open Gitbash terminal to connect instance