Assignment 2: Creating an AWS EC2 Instance and Connecting with PuTTY

Objective

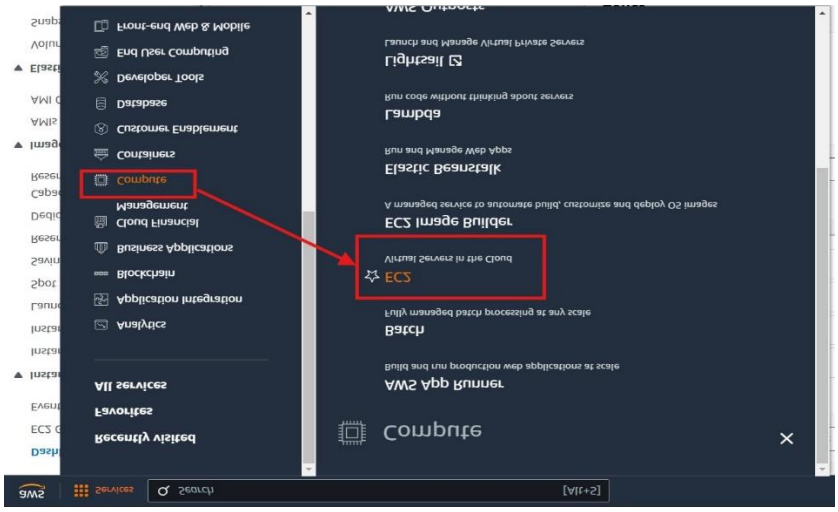
Set up an EC2 instance on AWS and establish an SSH connection using PuTTY.

1. Access the AWS Console

- Open a browser and log in to the [AWS Management Console](https://aws.amazon.com/console/).

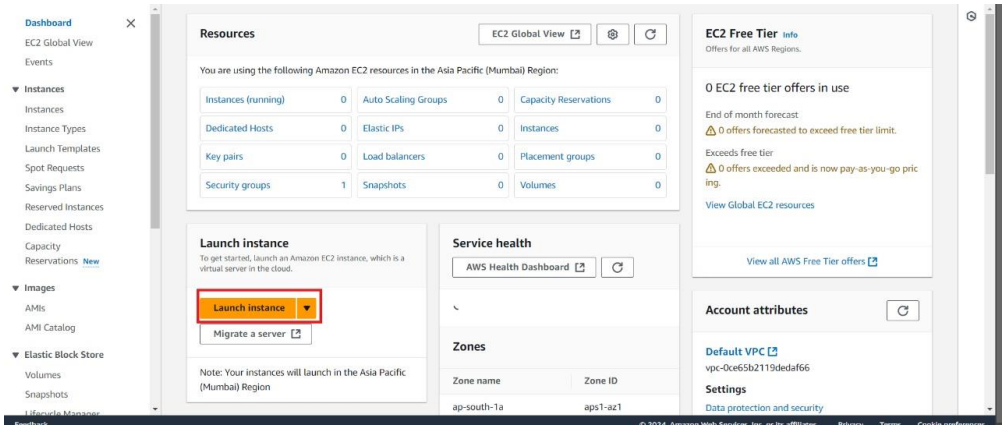
2. Navigate to the EC2 Service

- In the AWS Console, go to Services > Compute > EC2 to access the EC2 Dashboard.



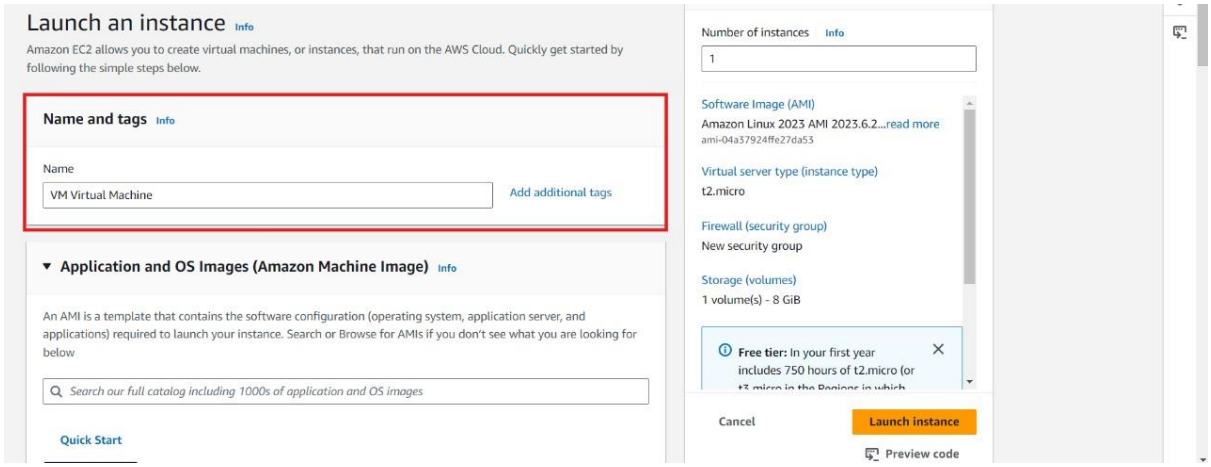
3. Launch a New EC2 Instance

- In the EC2 Dashboard, click on Launch Instance .



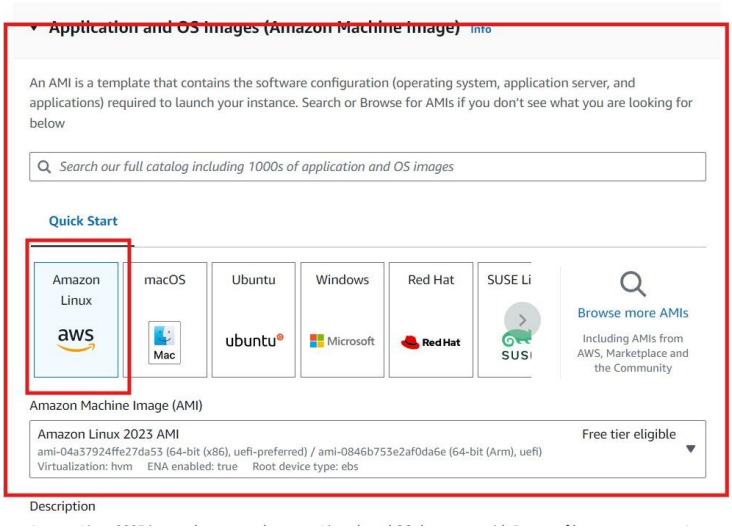
4. Name Your Instance

- Name the instance as `"VM Virtual Machine"` for easy identification.



5. Select the Operating System

- Under Amazon Machine Image (AMI) , choose Amazon Linux (default image).



6. Create a Key Pair

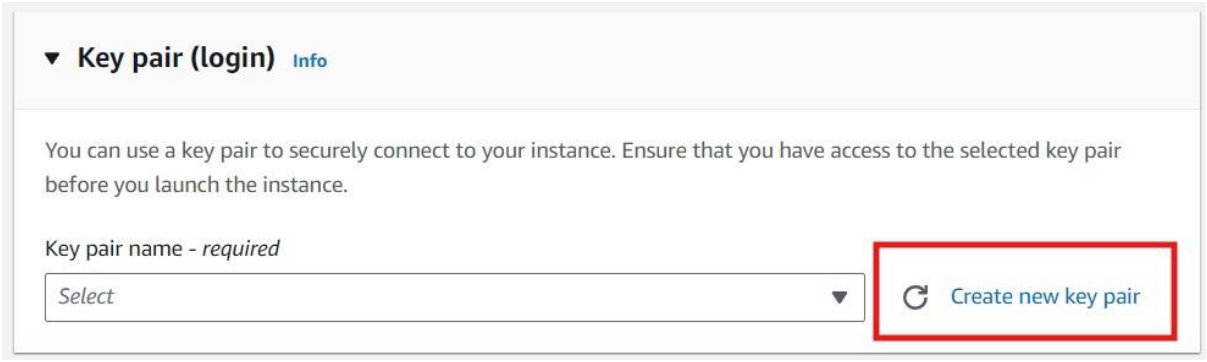
- Scroll down to the Key pair section and click on Create a new key pair.

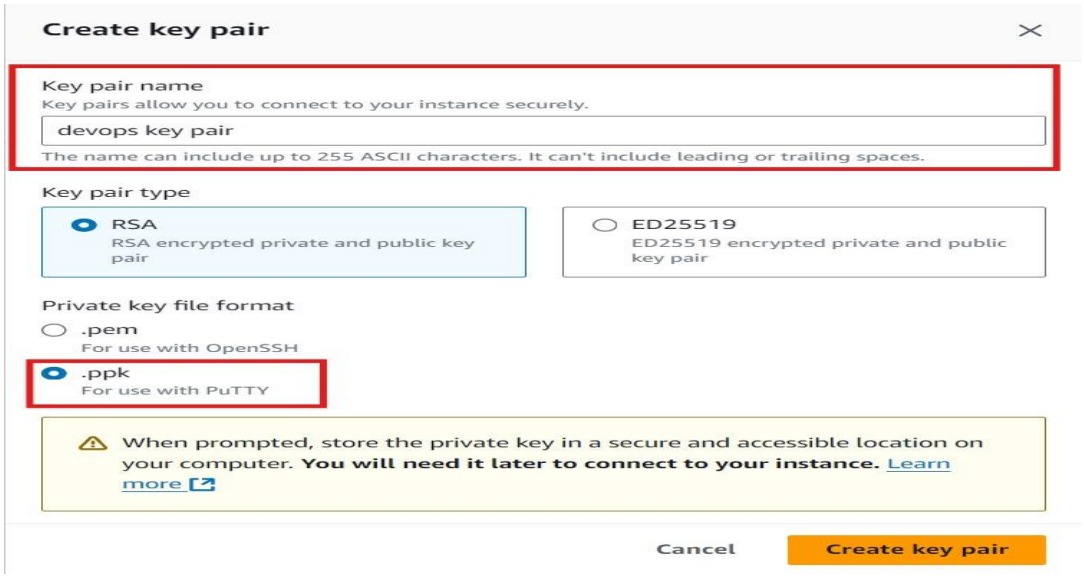
- Set the Key pair name (e.g., "MyKeyPair").

- Keep Key pair type as RSA .

- Set Private key file format to .ppk (PuTTY format).

- Click Create key pair to generate and download the `.ppk` file to your local system.

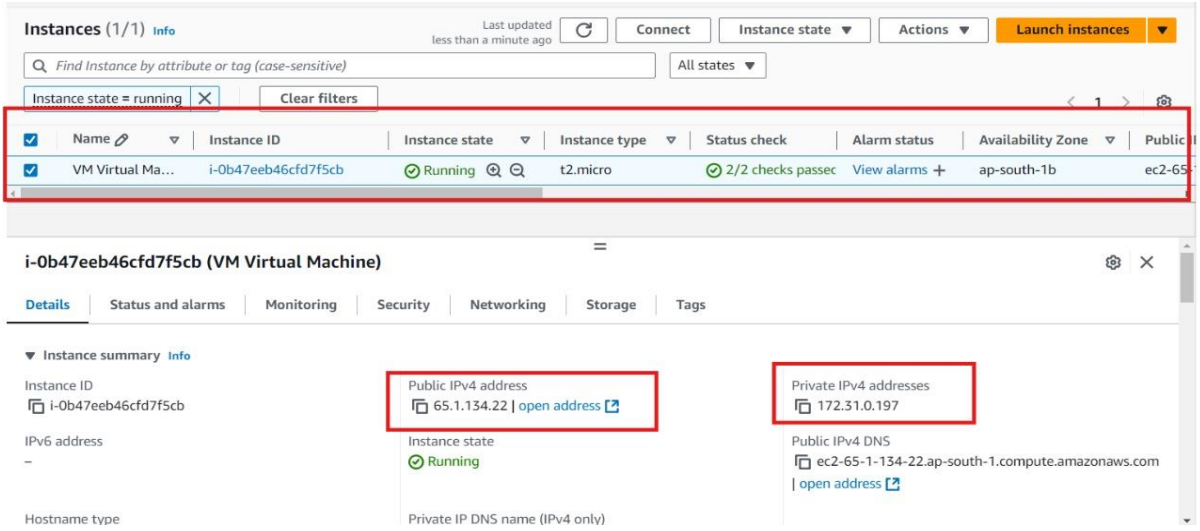




7. Verify Instance Creation

- After launching, navigate to the Instances section in the EC2 Dashboard.

- Confirm that the instance is listed and its state is Running .



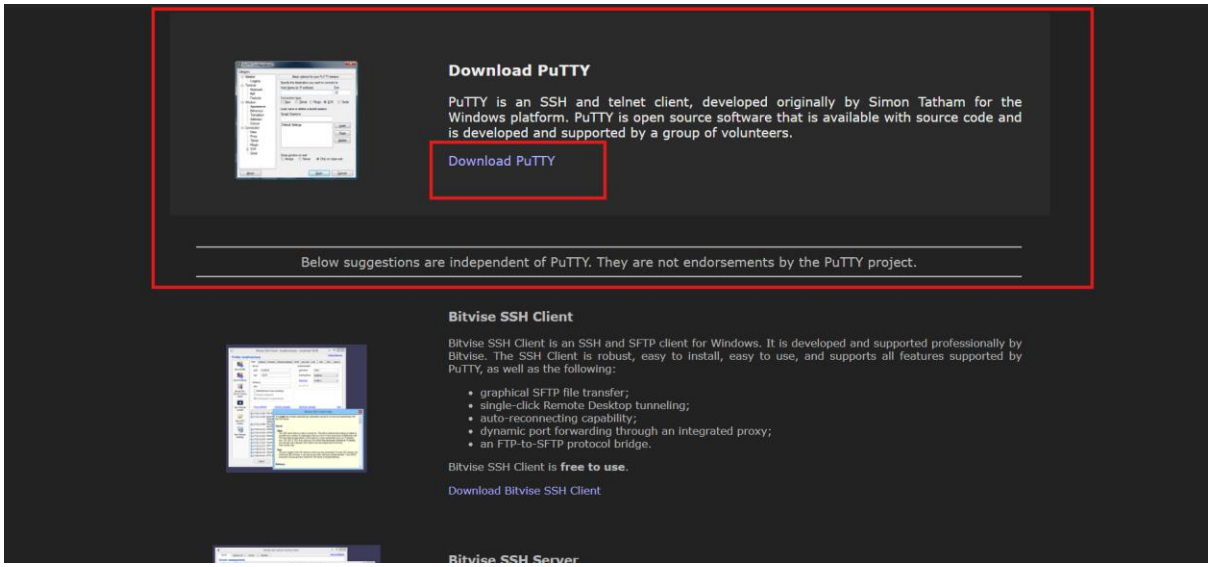
8. Copy the Public IPv4 Address

- In the Instances section, locate the Public IPv4 address of the newly created instance and copy it.

9. Install PuTTY

- Go to [PuTTY's official website](https://www.chiark.greenend.org.uk/~sgtatham/putty/) and download the appropriate version for your system.

- Install PuTTY by following the installation instructions.

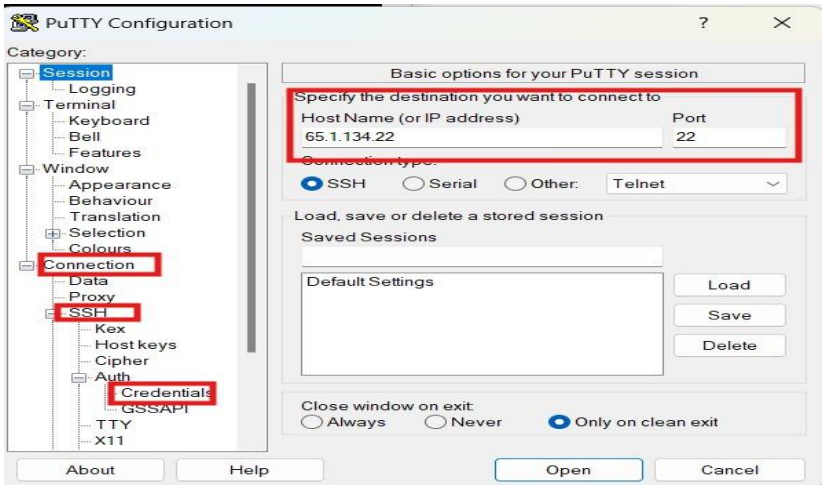


10. Configure PuTTY for SSH Connection

- Open PuTTY .

- In the PuTTY Configuration window:

- Host Name (or IP address) : Paste the Public IPv4 address you copied from your EC2 instance.

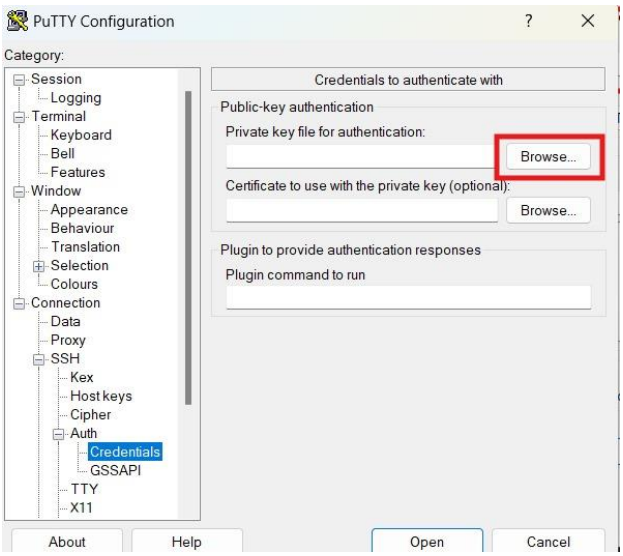


11. Configure SSH Authentication in PuTTY

- In the PuTTY Configuration window, navigate to:

- Connection > SSH > Auth .

- Under Credentials , click Browse and select the `.ppk` key file you downloaded in Step 6.



12. Connect to the EC2 Instance

- Click Open in PuTTY to initiate the connection.

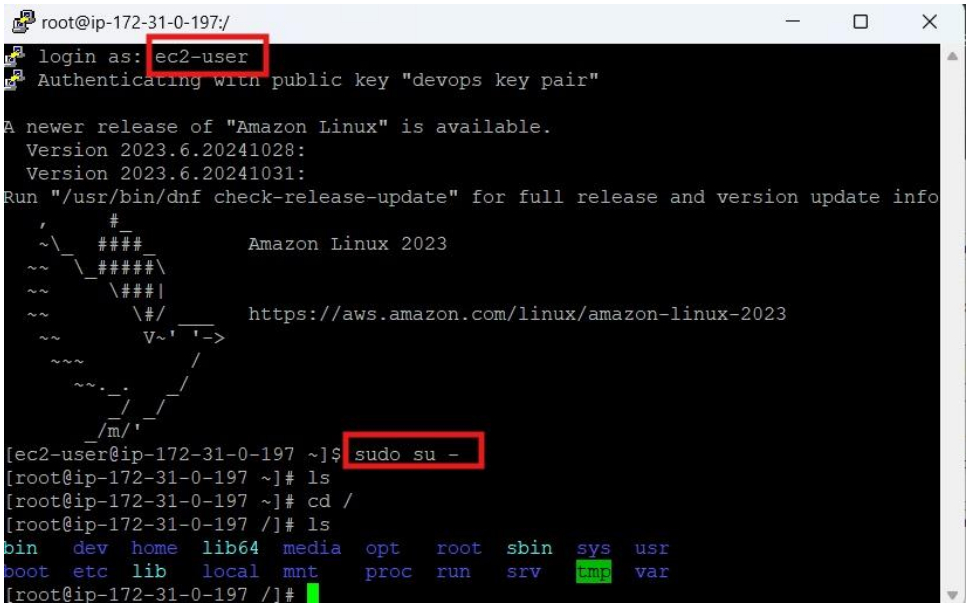
- A terminal window will open, and PuTTY will prompt for a login name.

13. Log In to the Instance

- At the login prompt, type:

ec2-user

- Press Enter .



14. Switch to Superuser Mode

- Once logged in, switch to superuser mode by running:

bash

sudo su -