Creating an EC2 instance.

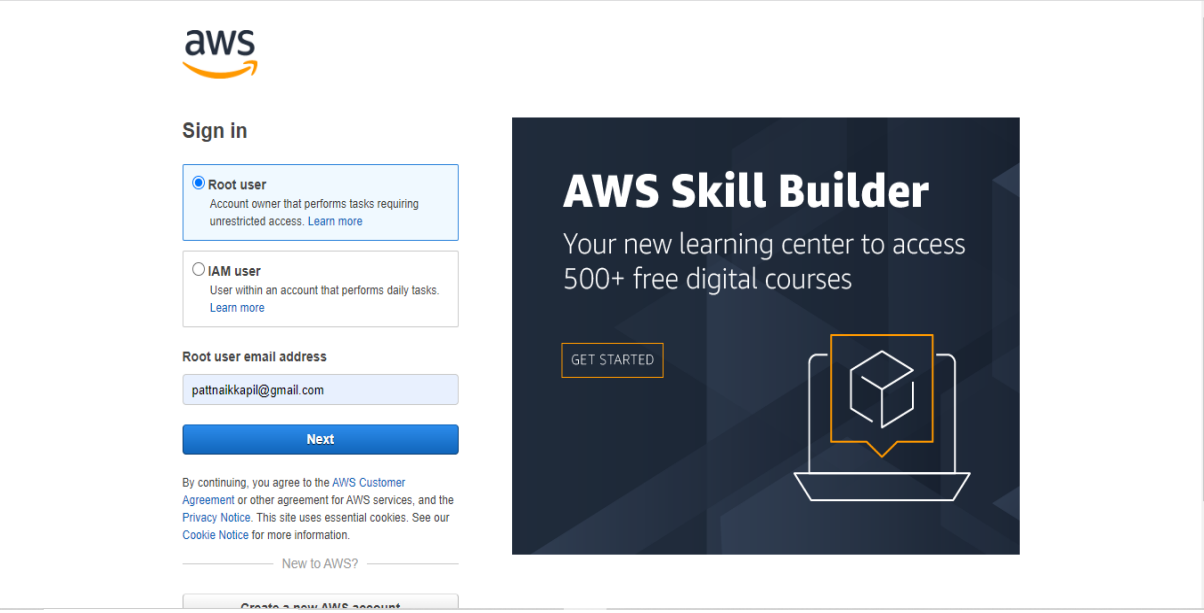
Login to AWS Console

• To start the lab, you need to open the Amazon Console by visiting the following link: https://aws.amazon.com/console/

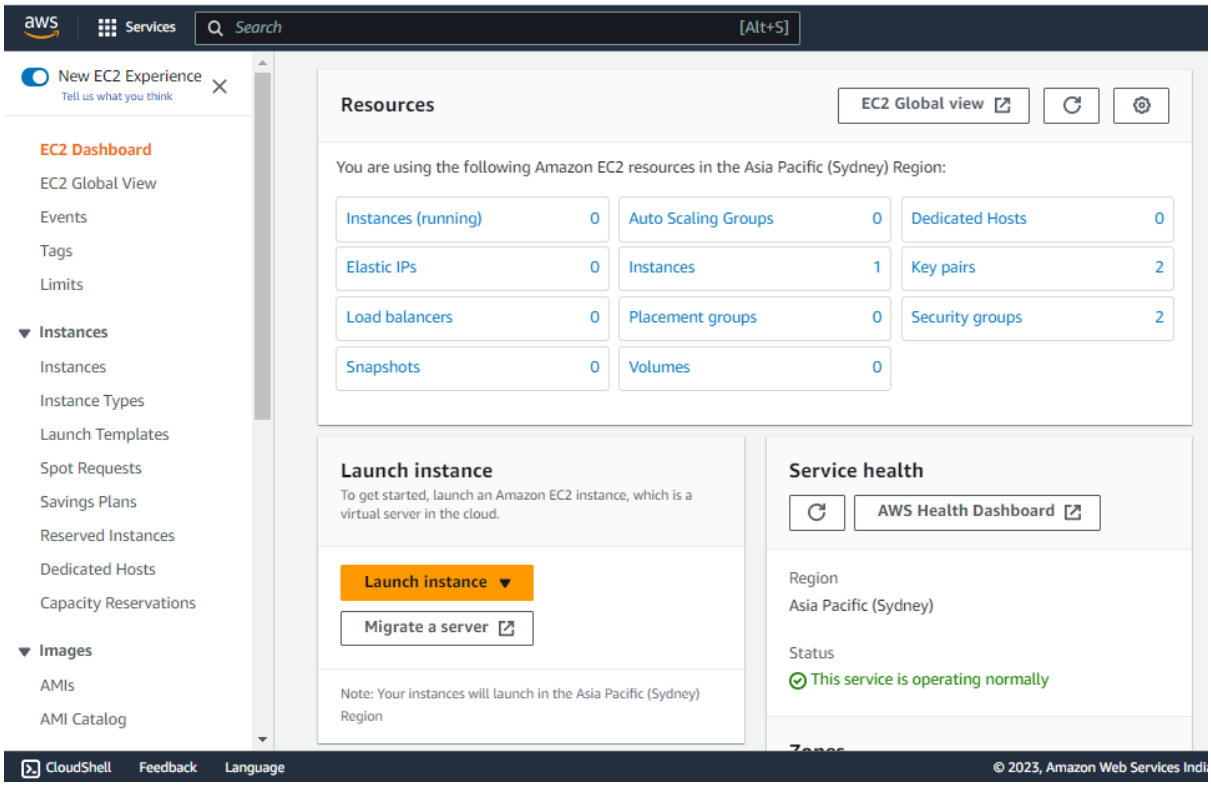
• Click on the button Sign in to the Console. Enter registered credentials namely, email address and password to login in the AWS console.

Note: If not already registered, click on Create a new AWS Account and register yourself on Amazon. After successful registration, you will receive a call from Amazon

• After successfully login to AWS console, you will see the following web page:



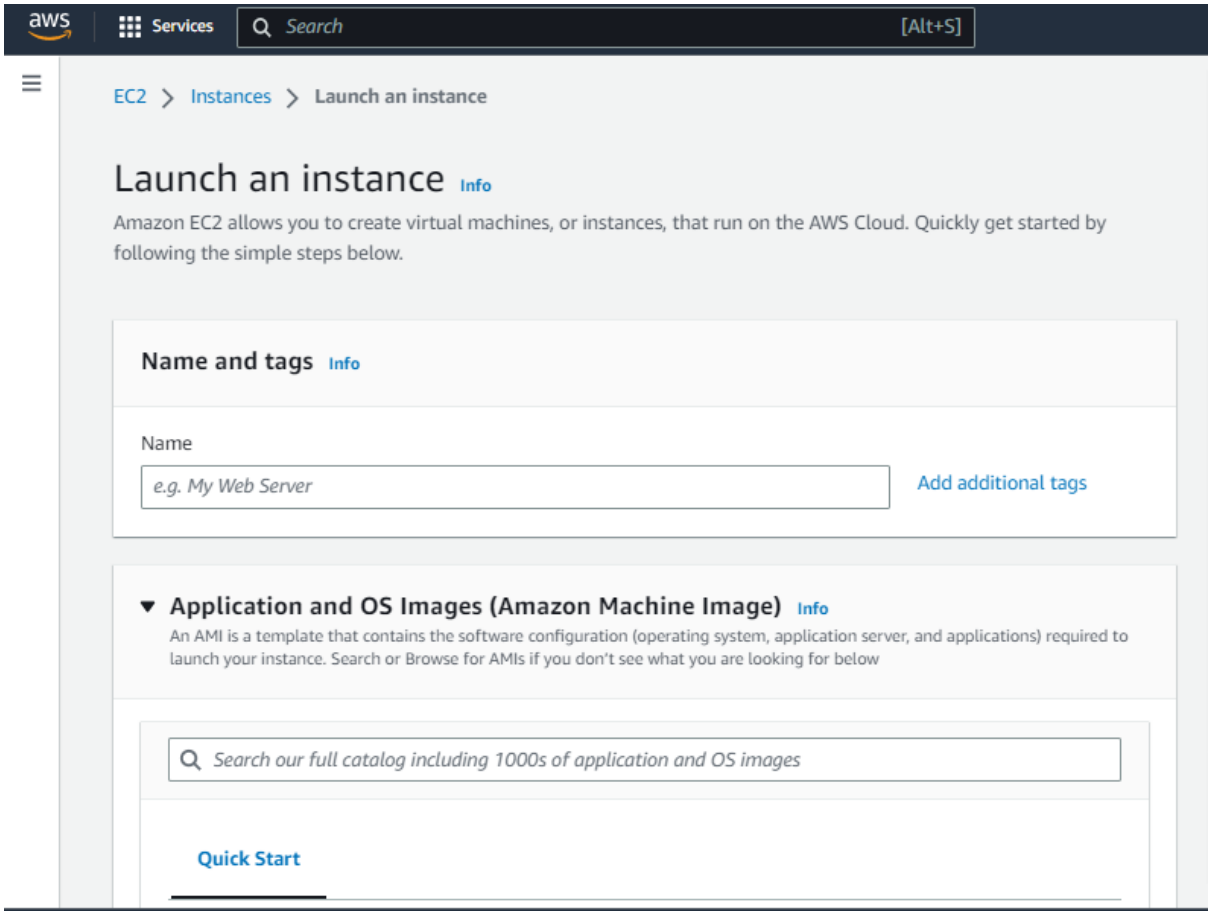
Step 1: Sign in to the AWS Management Console



EC2 dashboard

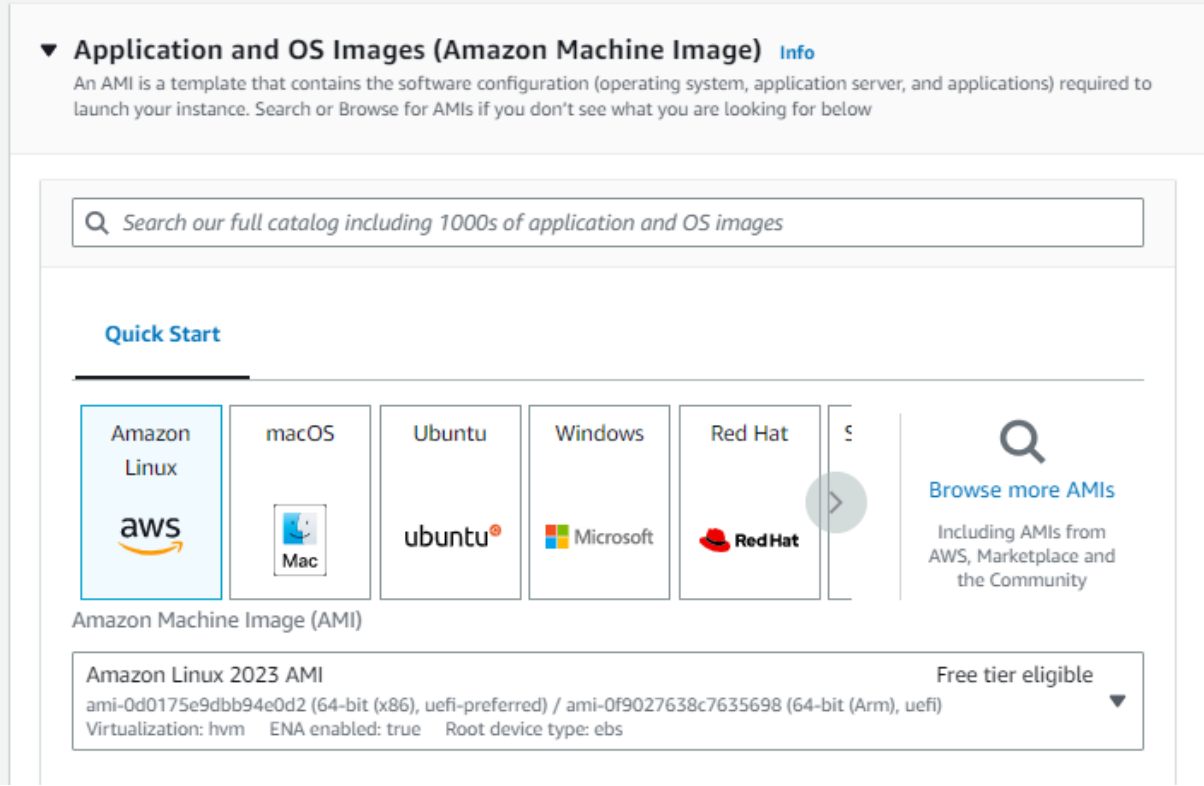
To create an EC2 instance, you first need to sign in to the AWS Management Console. If you don't already have an AWS account, you'll need to create one. Once you're signed in, navigate to the EC2 dashboard and Launch an instance.

Step 2: Choose a name of your instance



Select a name of your instance as per your likability

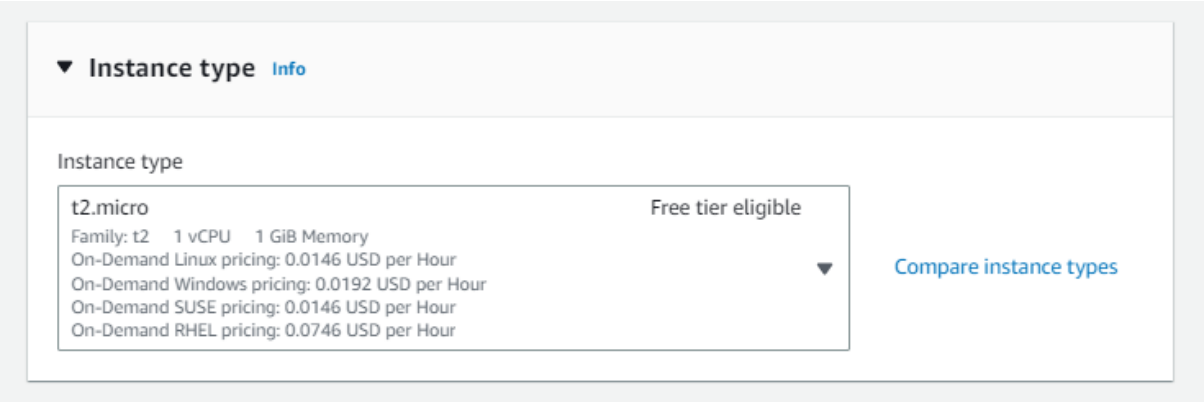
Step 3: Choose an Amazon Machine Image (AMI)



Selecting AMI for your instance

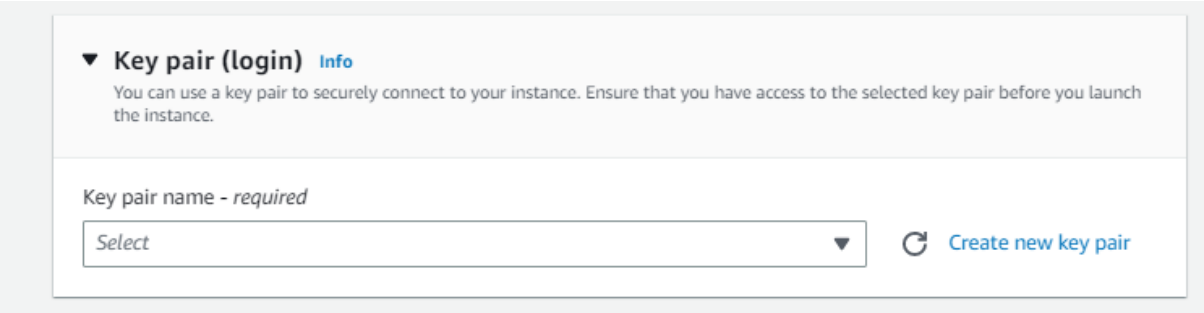
An Amazon Machine Image (AMI) is a pre-configured virtual machine that serves as a template for your EC2 instance. You'll be prompted to choose an AMI from a list of available options. You can choose from Amazon Linux, Ubuntu, Windows, and many other options.

Step 4: Choose an Instance Type



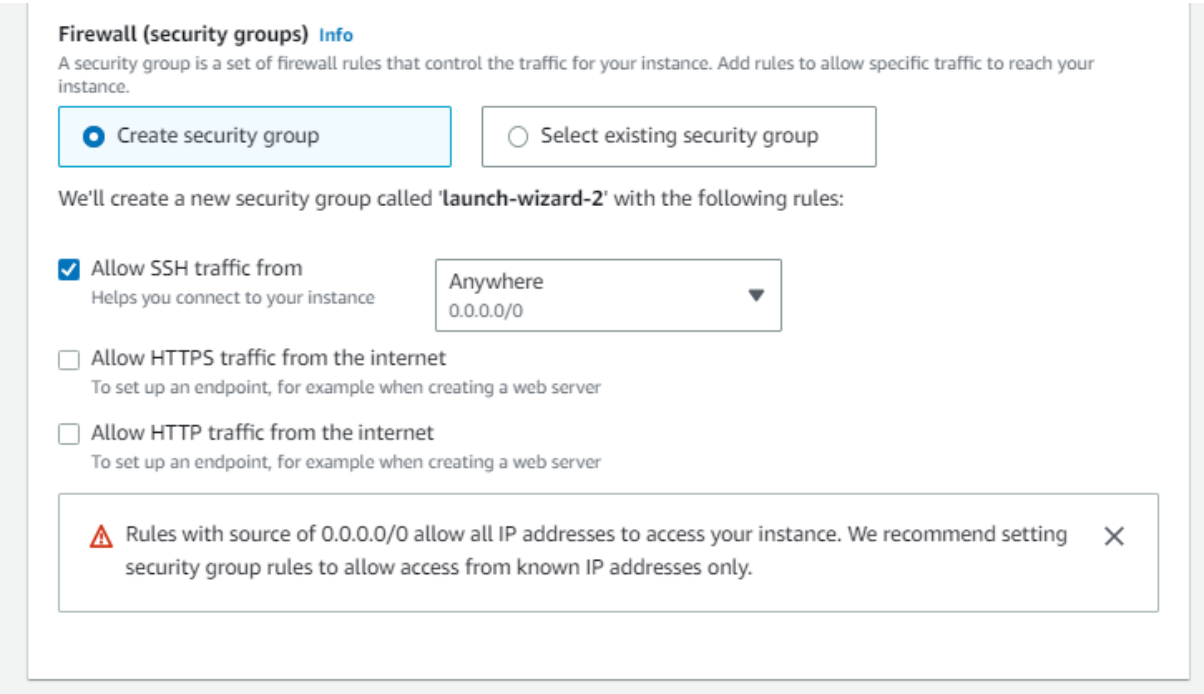
An instance type determines the computing resources (CPU, RAM, storage, etc.) available to your EC2 instance. There are a variety of instance types to choose from, ranging from small and low-cost to large and high-performance. Select the instance type that best fits your needs and budget.

Step 5: Create a key pair



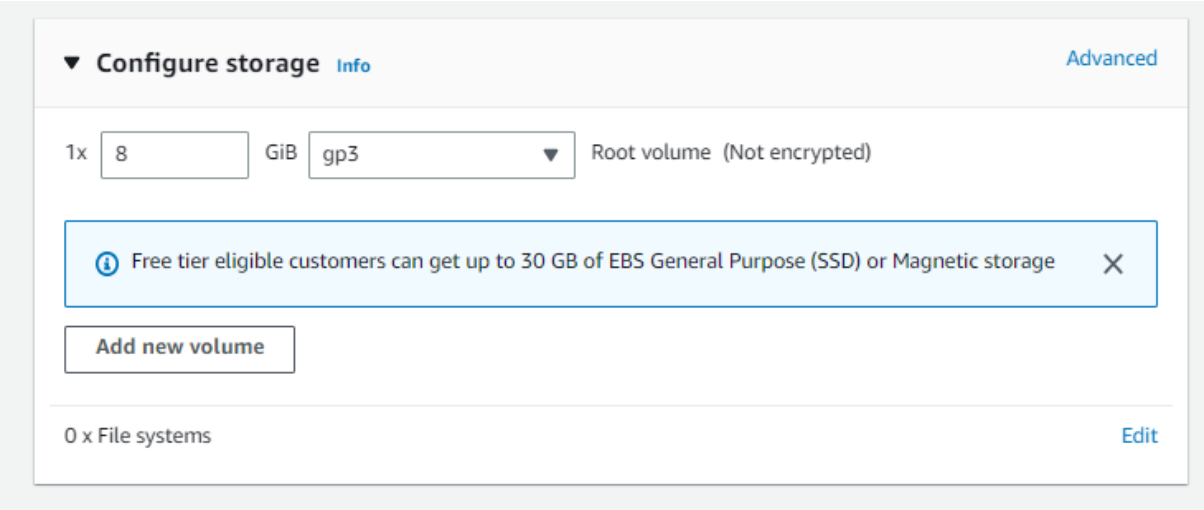
Create a key pair if you have never created one and store it in a safe place because it will act as a key to log in to your instance.

Step 6: Configure Security Group



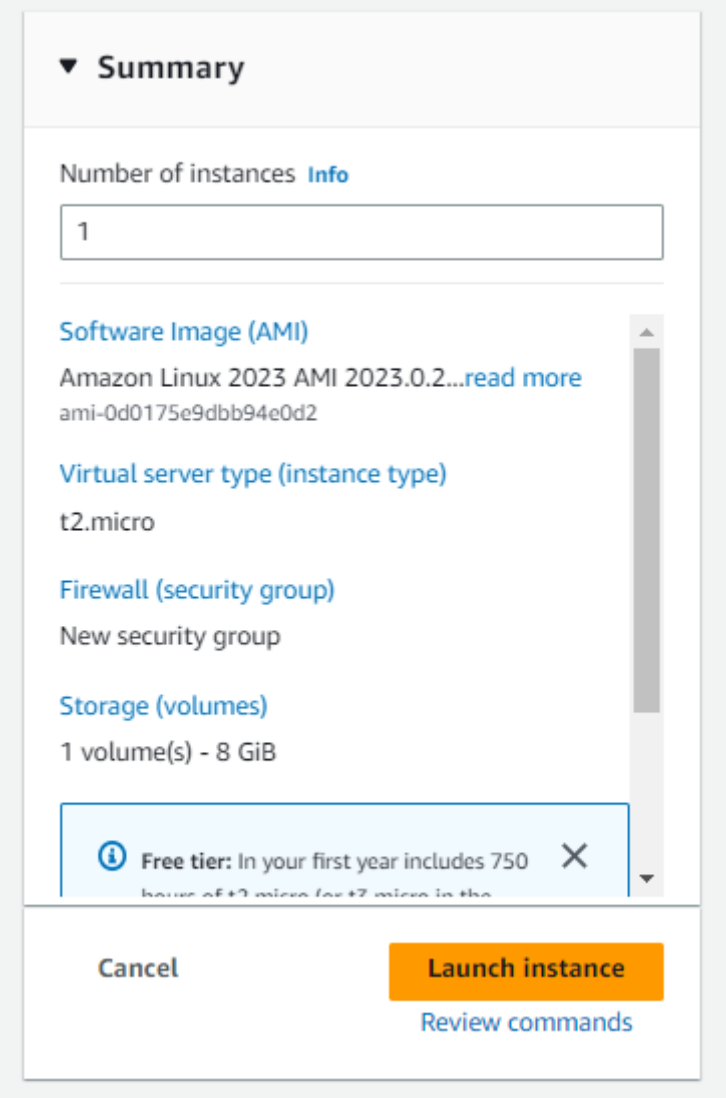
Security groups act as virtual firewalls for your EC2 instance, controlling inbound and outbound traffic. You can configure security groups to allow or deny traffic from specific IP addresses, protocols, and ports. In this step, you'll need to create a new security group or select an existing one.

Step 7: Add Storage



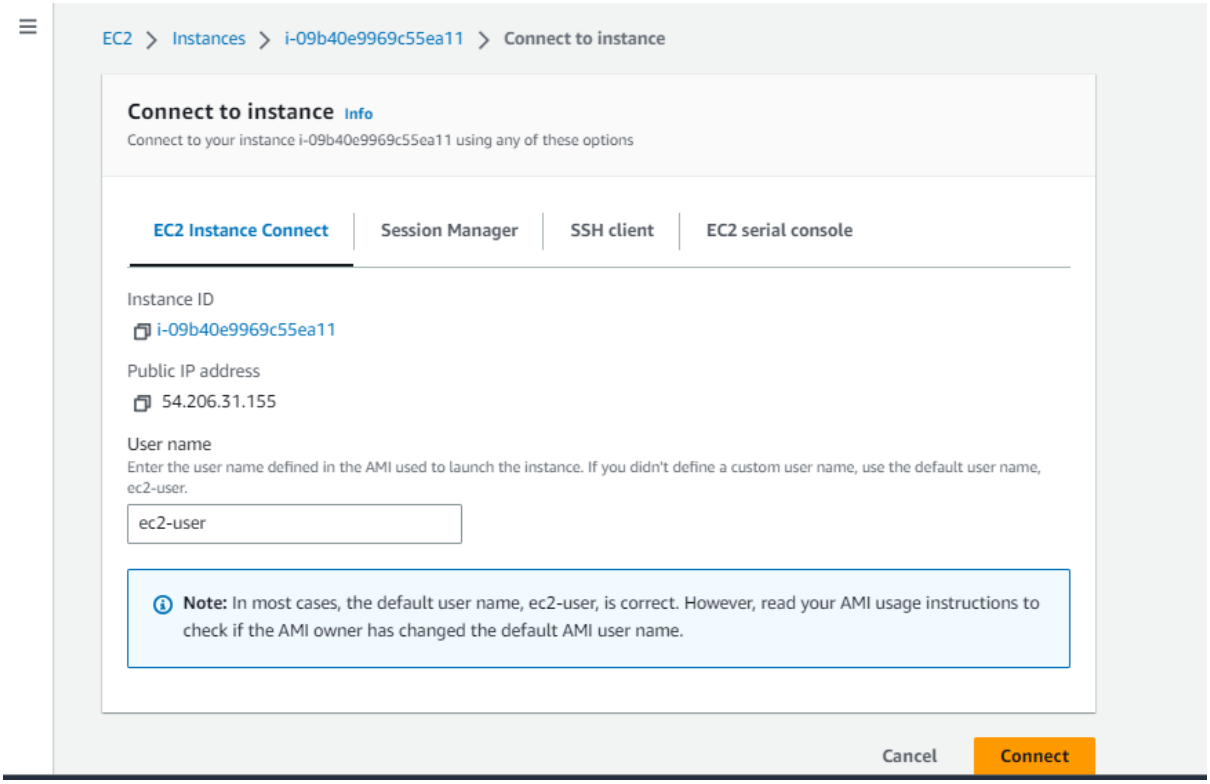
EC2 instances require storage for the operating system, applications, and data. In this step, you can add and configure storage volumes for your instance. You can choose from different types of storage, including Amazon Elastic Block Store (EBS) volumes and instance store volumes.

Step 8: Review and Launch



Before launching your instance, review all the details to make sure everything is correct. You can also modify any settings that need to be changed. Once you're ready, click the "Launch" button to start your EC2 instance.

Step 9: Connect to Your Instance



After launching your instance, you can connect to it using various methods, such as SSH or Remote Desktop Protocol (RDP). You can also use the AWS Systems Manager Session Manager to connect to your instance securely without the need for a public IP address.

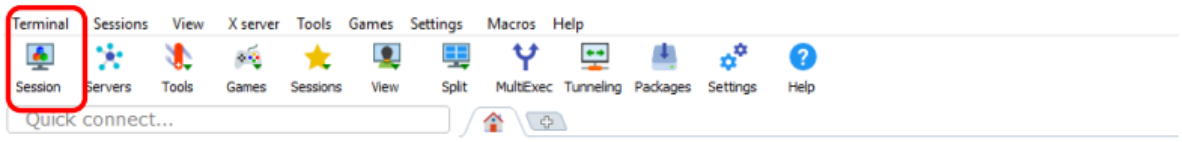
Proceed to the Connecting using Linux / macOS or Connecting using Windows instructions depending on your local operating system.

Note: These are SSH usernames:
For Amazon Linux, a standard SSH user is ec2-user.
For Ubuntu images, a standard SSH user is ubuntu.
For CentOS images, a standard SSH user is centos.
For Debian images, a standard SSH user is admin.
For Red Hat 6.4 and later images, a standard SSH user is ec2-user.

Created by: **Vicky Kumawat**

Connecting MobaXTerm on Windows to Amazon Linux Instance.

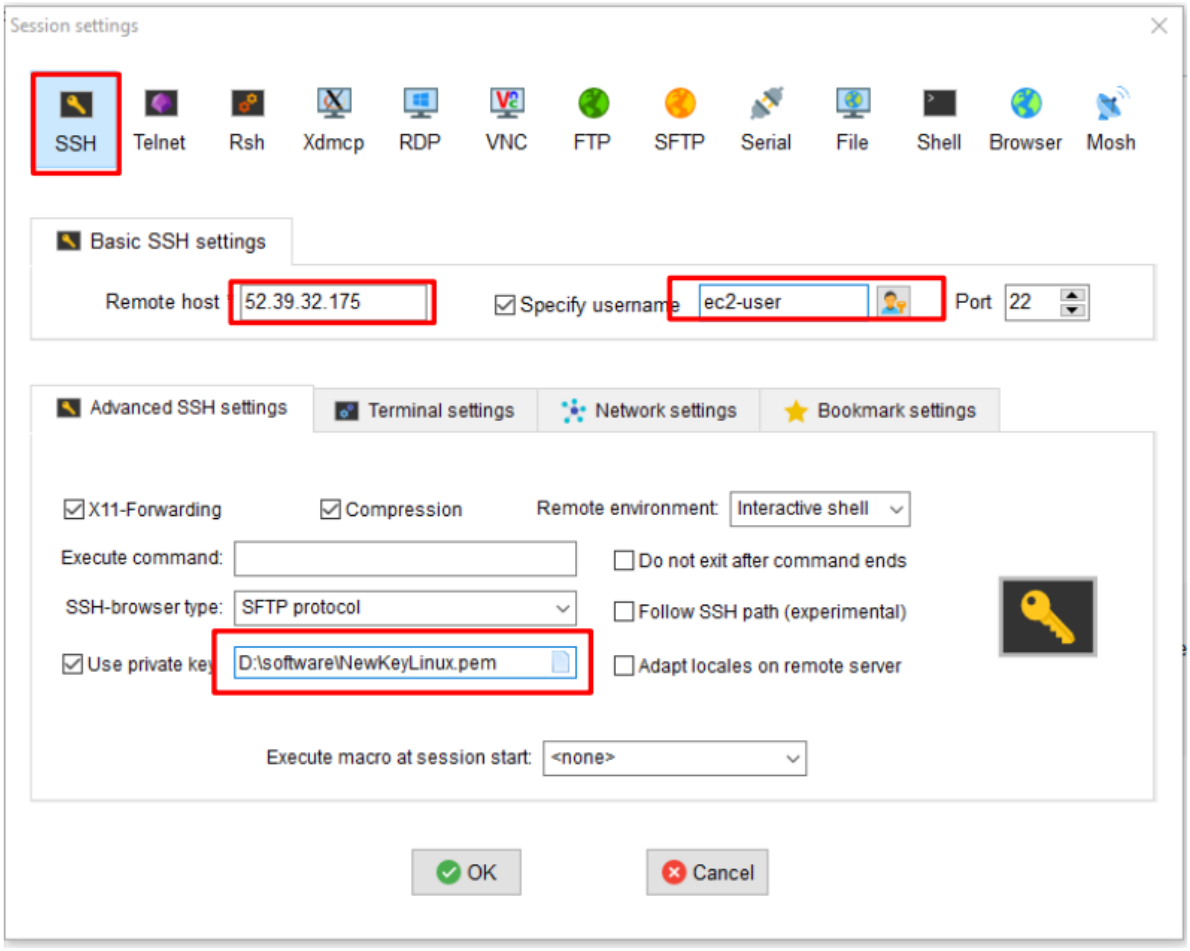
Open MobaXTerm application.
To create a new session, in Terminal menu, click Session.



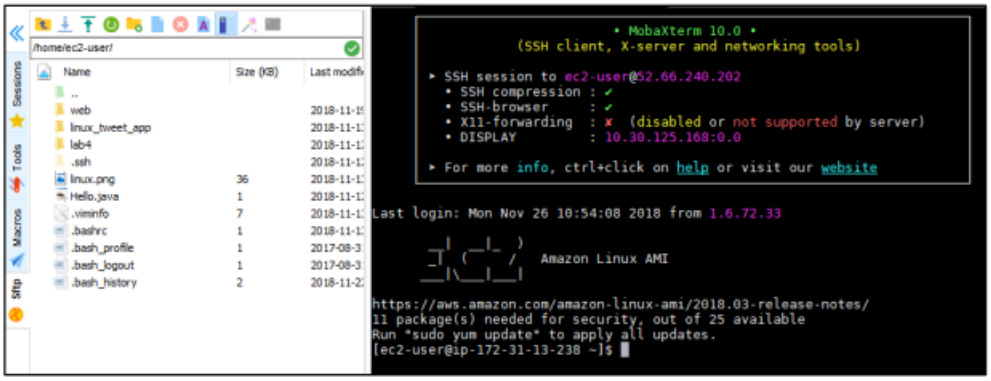
The Session settings window is opened.

• In SSH tab, enter the Remote Host address, which is, address of running Amazon Linux instance on your machine.

• Following image shows the details to be provided in the settings:

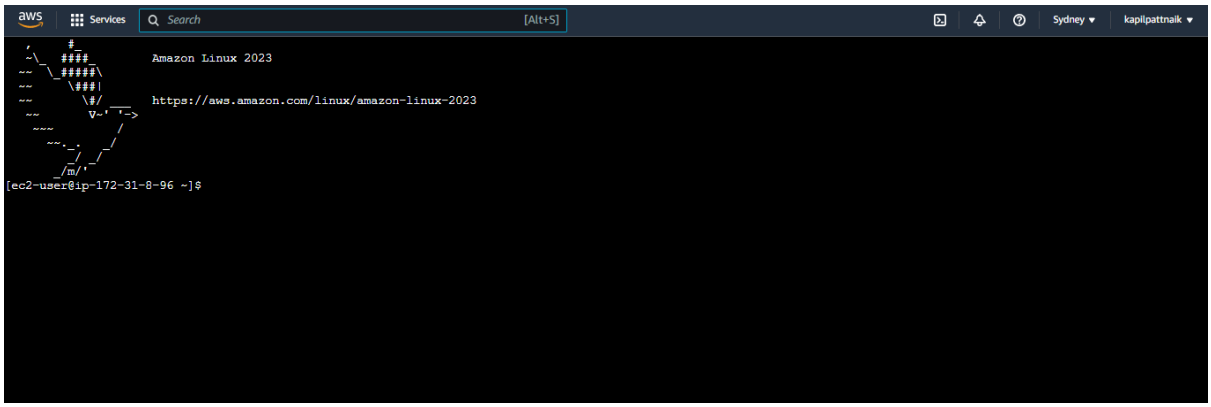


Click ok to start the session.
You will be logged in the session as shown:



Currently, you will be logged in as ec2-user on the Linux system.

Conclusion



Creating an EC2 instance in AWS is a simple and straightforward process. With just a few clicks, you can launch a virtual machine in the cloud and start using it right away. By following the steps outlined in this guide, you can create your own EC2 instance in no time.