

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

Objective

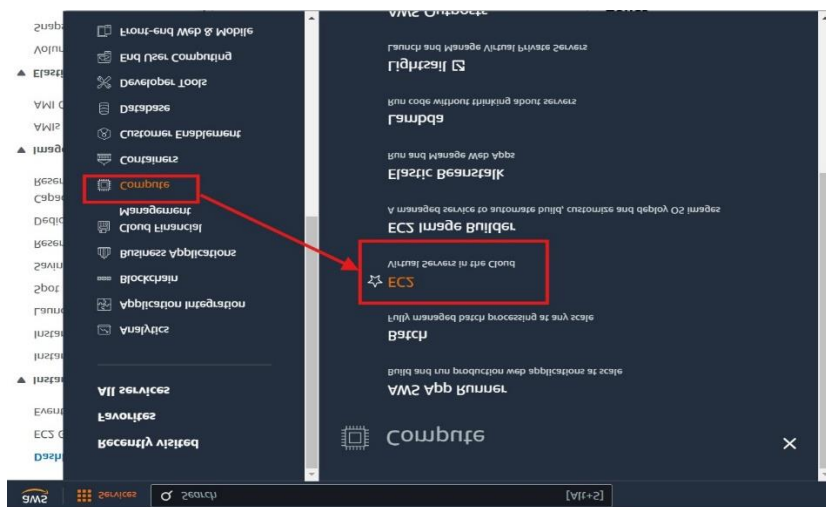
Set up an EC2 instance on AWS and establish an SSH connection using PuTTY.

1. Access the AWS Console

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

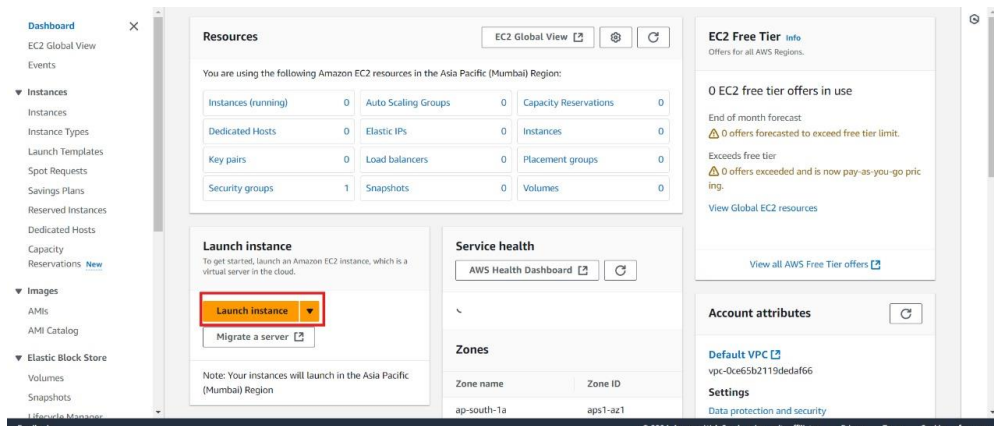
2. Navigate to the EC2 Service

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



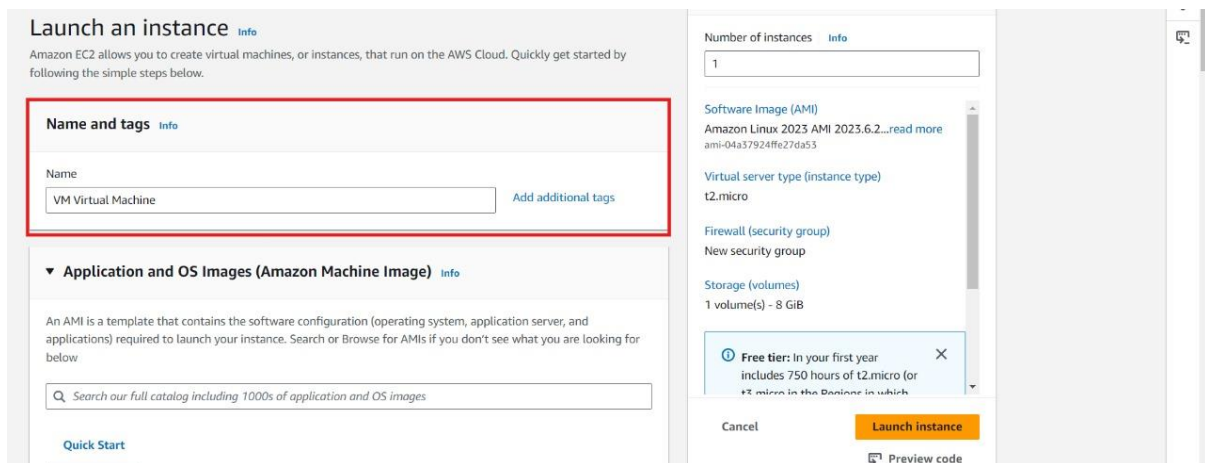
3. Launch a New EC2 Instance

- In the EC2 Dashboard, click on Launch Instance .



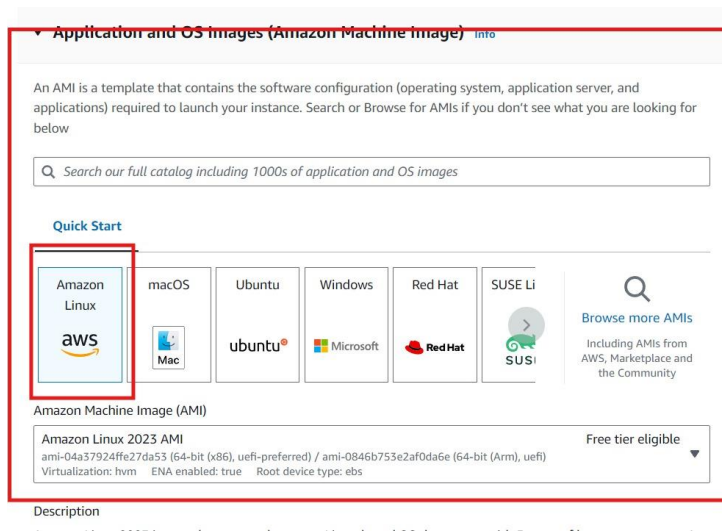
4. Name Your Instance

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



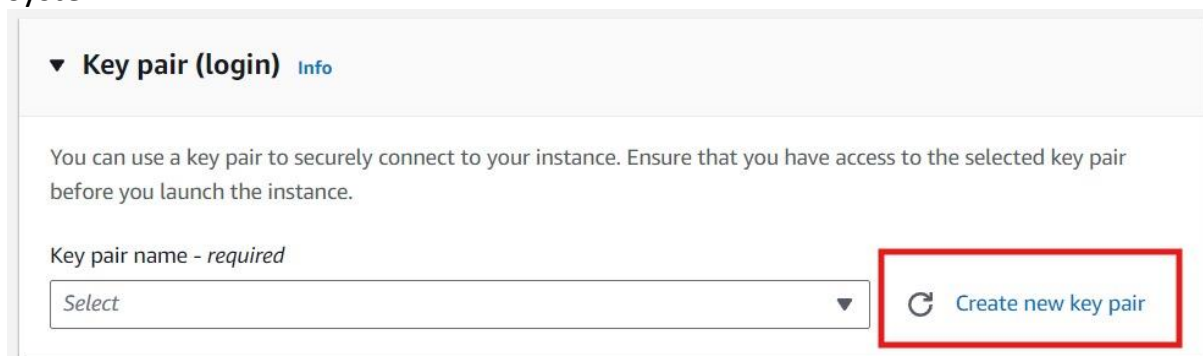
5. Select the Operating System

- 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.



Create key pair

×

Key pair name

Key pairs allow you to connect to your instance securely.

devops key pair

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
 RSA encrypted private and public key pair

☐ ED25519
 ED25519 encrypted private and public key pair

Private key file format

☐ .pem
 For use with OpenSSH

☒ .ppk
 For use with PuTTY

⚠

When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel

Create key pair

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**.

Instances (1/1) Info

Last updated less than a minute ago

Connect

Instance state ▼

Actions ▼

Launch instances ▼

Find Instance by attribute or tag (case-sensitive)

All states ▼

Instance state = running X

Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
<input checked="" type="checkbox"/>	VM Virtual Ma...	i-0b47eeb46cfd7f5cb	Running	t2.micro	2/2 checks pass	View alarms +	ap-south-1b	ec2-65...

i-0b47eeb46cfd7f5cb (VM Virtual Machine)

⚙ X

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-0b47eeb46cfd7f5cb

IPv6 address

-

Hostname type

Public IPv4 address

65.1.134.22 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

Private IPv4 addresses

172.31.0.197

Public IPv4 DNS

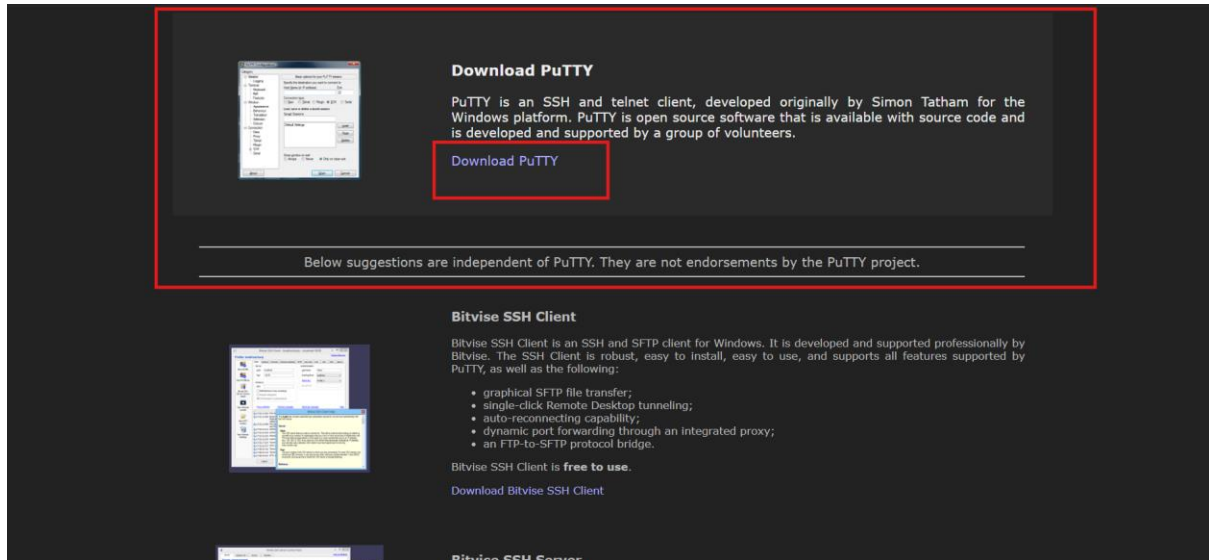
ec2-65-1-134-22.ap-south-1.compute.amazonaws.com | open address

8. Copy the Public IPv4 Address

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

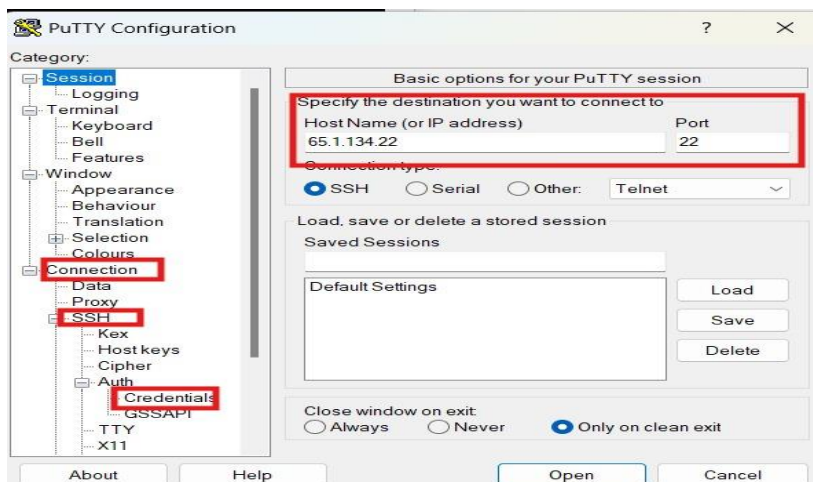
9. Install PuTTY

- 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.



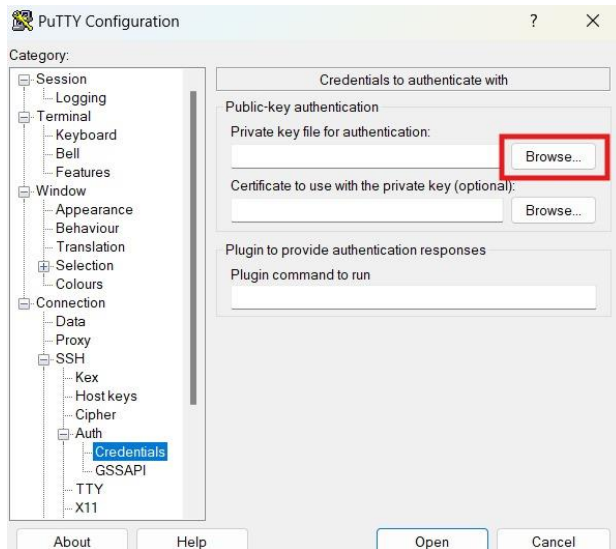
10. Configure PuTTY for SSH Connection

- 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 .

