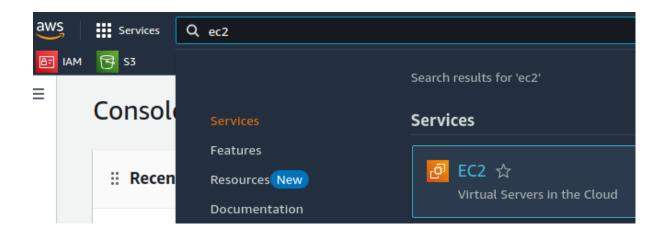
# **AWS EC2 Tasks**

### Introduction

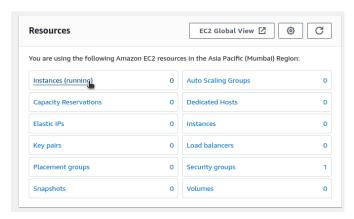
Amazon EC2 (Elastic Compute Cloud) is a web service that provides resizable compute capacity in the cloud. It allows you to launch virtual servers (EC2 instances), which are customizable in terms of CPU, memory, storage, and networking. It's used to host applications, process data, run databases, or any other task that requires computational resources.

# **Steps to Create and Configure an EC2 Instance**

# Navigate to EC2 Dashboard

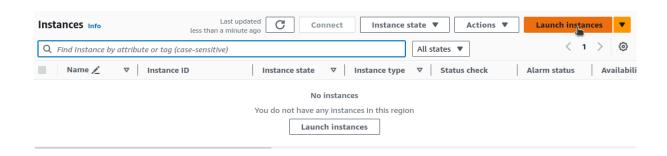


#### Click on Instances



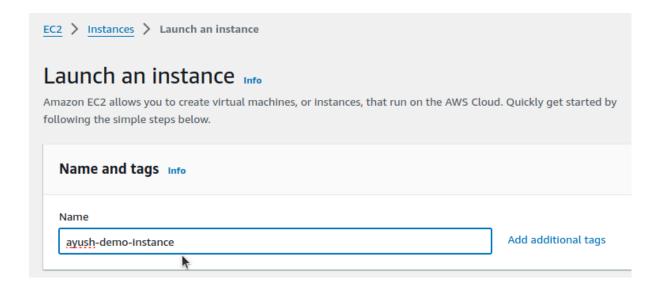
#### **Launch Instance**

In the EC2 dashboard, click the Launch Instance button.



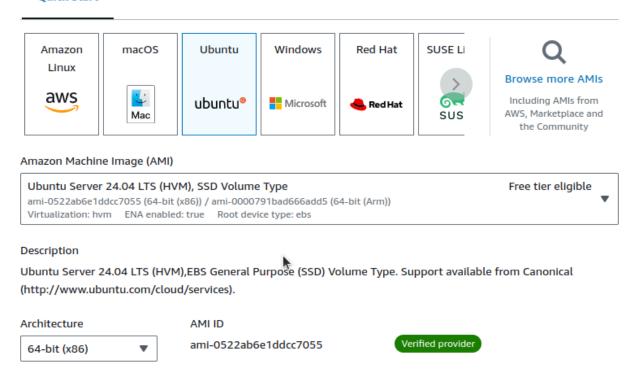
# **Configure Instance**

#### Add instance name



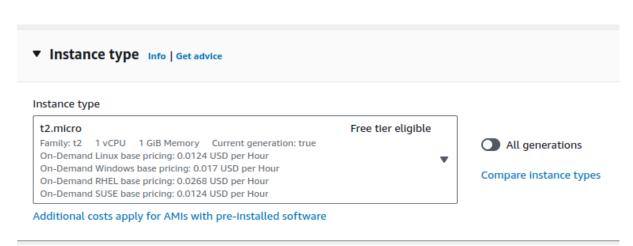
### **Choose an Amazon Machine Image (AMI)**

**Quick Start** 

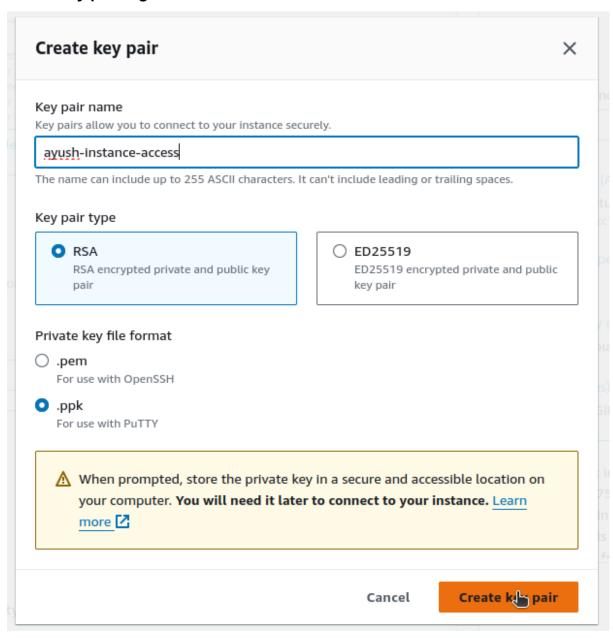


### **Choose an Instance Type**

### Select free tier instance



### Create key pair login



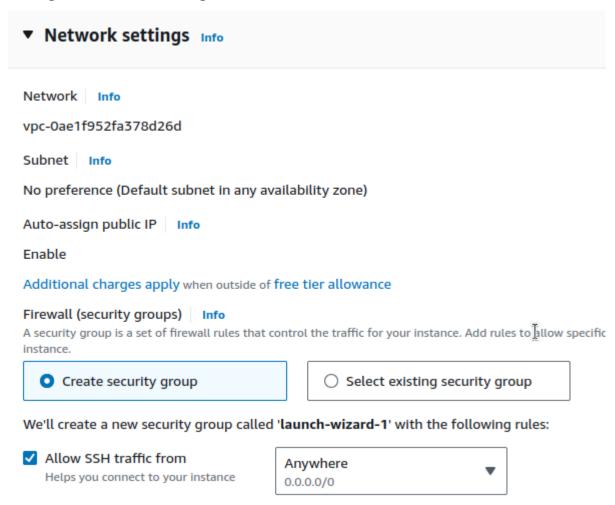
## ▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

#### Key pair name - required

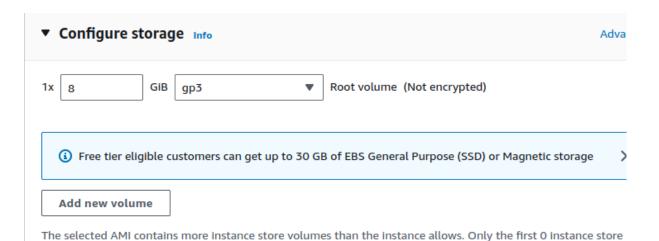
ayush-instance-access ▼ C Create new key pair

### **Configure Network Settings**

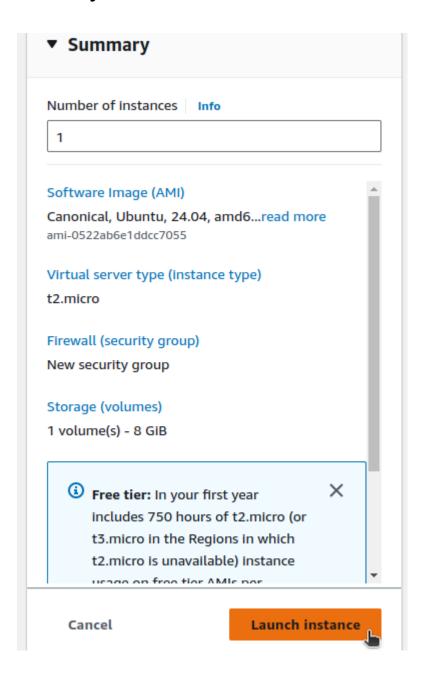


## **Configure Storage**

volumes from the AMI will be accessible from the instance

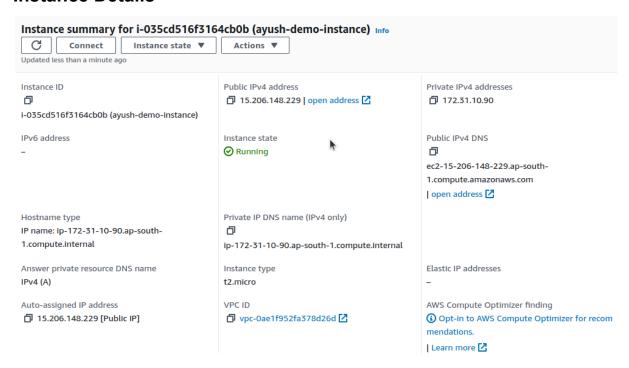


# **Summary of Instance**





### **Instance Details**



# **Connect via Putty**

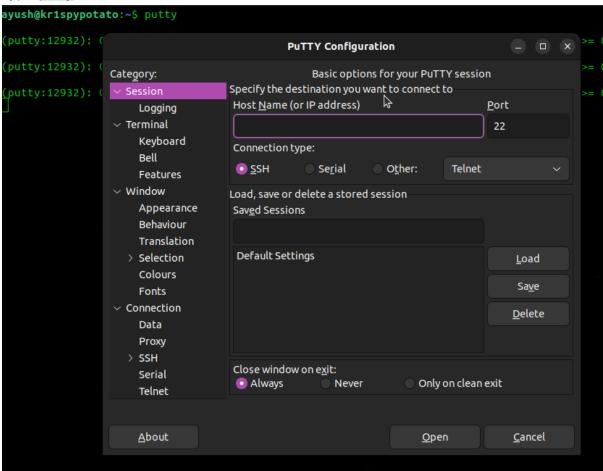
# Install putty

sudo apt install putty

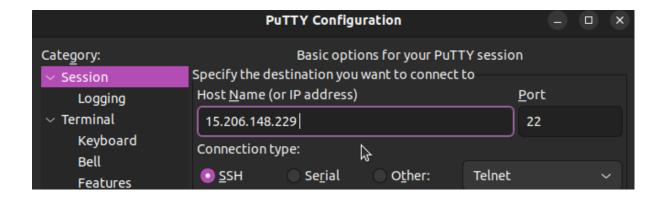
```
ayush@kr1spypotato:~$ sudo apt install putty
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
   putty-tools
Suggested packages:
   putty-doc
The following NEW packages will be installed:
   putty putty-tools
0 upgraded, 2 newly installed, 0 to remove and 21 not
Need to get 1,145 kB of archives.
After this operation, 4,861 kB of additional disk spa
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu_iammv/unive
```

## **Start putty**

## Type putty

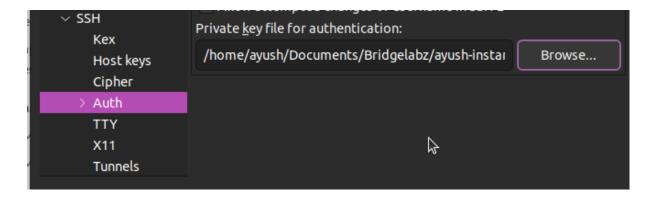


### **Enter EC2 Public IP**



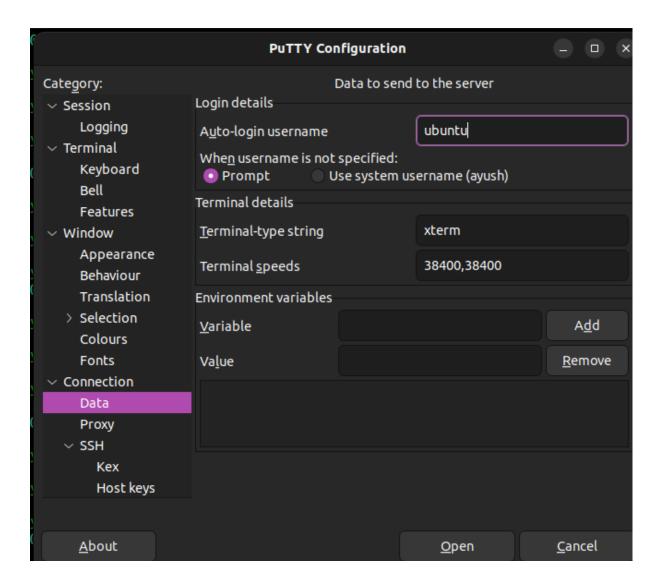
# Enter ppk key

Navigate to Auth(don't expand) and add location of ppk key



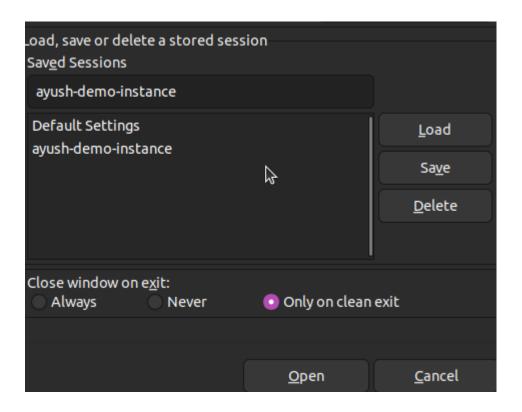
# Enter login username

Navigate to Data(inside Connection) and add respective username, 'ubuntu' in this case



#### Save the session

Saving session helps to instantly connect to ec2 instance with adding all the details that we added above



# Open the session

```
Using username "ubuntu".
  Authenticating with public key "ayush-instance-access"
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/pro
 System information as of Thu Sep 12 08:36:01 UTC 2024
 System load:
                                                       104
               0.0
                                 Processes:
 Usage of /: 22.7% of 6.71GB
                                 Users logged in:
                                                       0
 Memory usage: 20%
                                 IPv4 address for enX0: 172.31.10.90
 Swap usage:
               0%
```

## Using the EC2 instance

```
The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

ubuntu@ip-172-31-10-90:~$ ls
ubuntu@ip-172-31-10-90:~$ whoami
ubuntu
ubuntu
ubuntu@ip-172-31-10-90:~$
```

### **Connect via Terminal**

## Install putty tools

sudo apt-get install putty-tools

### Convert ppk to pem

puttygen ayush-instance-access.ppk -O private-openssh -o ayush-instance-access.pem

#### Connect to ssh

ssh -i ayush-instance-access.pem ubuntu@15.206.148.229

```
ayush@kr1spypotato:~/Documents/Bridgelabz\( \) sudo apt-get install putty-tools
[sudo] password for ayush:
Reading package lists... Done
Reading state information... Done
Reading state information... Done
putty-tools is already the newest version (0.76-2).
putty-tools set to manually installed,
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded. Installed.
ayush@kr1spypotato:~/Documents/Bridgelabz\( \) puttygen ayush-instance-access.ppk -0 private openssh -o ayush-instance-access.pem
ayush@kr1spypotato:~/Documents/Bridgelabz\( \) ssh -i ayush-instance-access.pem ubuntu@15.266.148.229
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-aws x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro

System information as of Thu Sep 12 08:54:57 UTC 2024

System load: 0.0 Processes: 105
```

#### If permission error arises

chmod 400 ayush-instance-access.pem

### **Shutdown Instance**

sudo shutdown -h now

