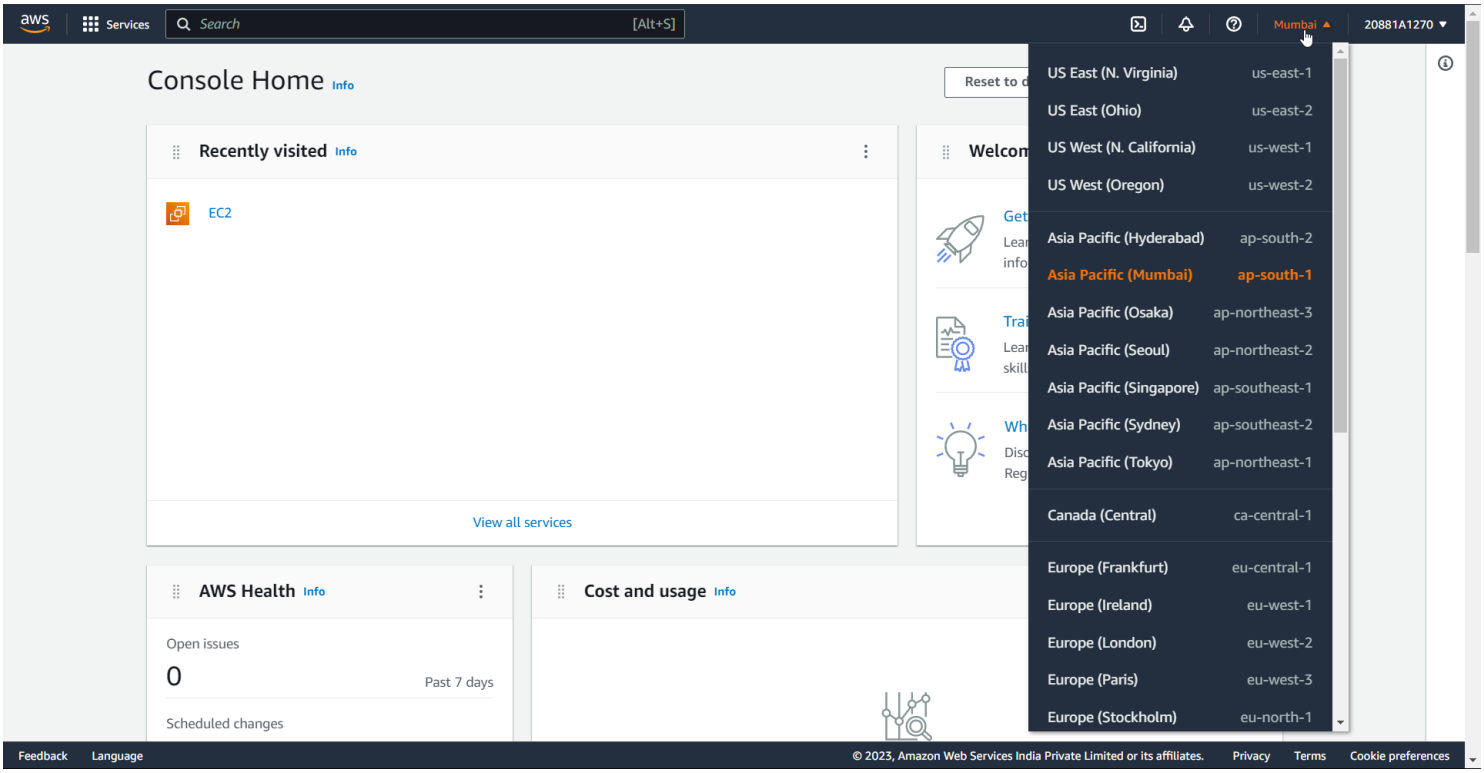
**4. Create a ssh tunnel between your server in local machine and remote clients in EC2 instances.**

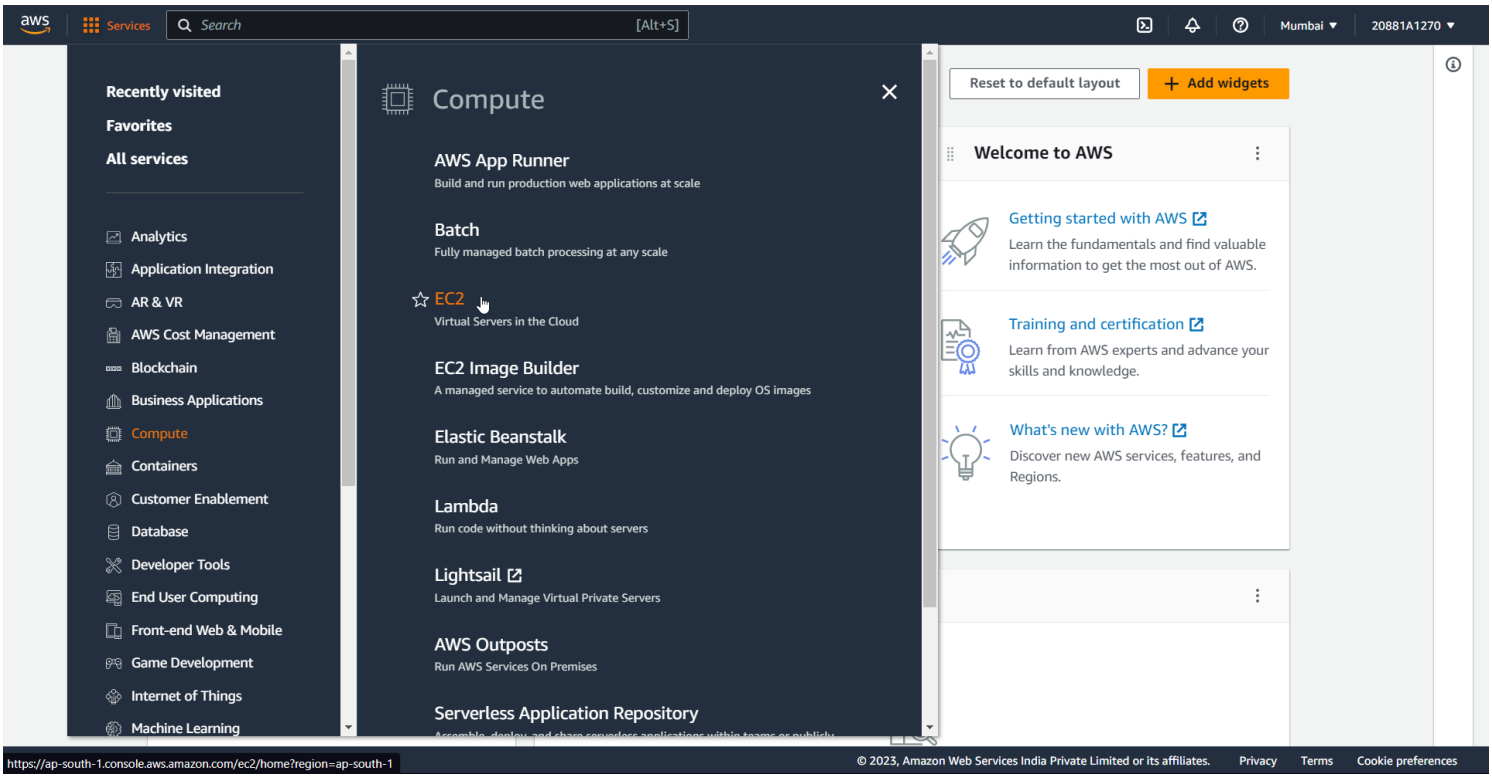
## Creating Linux Instance

Go to https://aws.amazon.com and signup for an account (login if already created) and complete debit/credit card verification process.

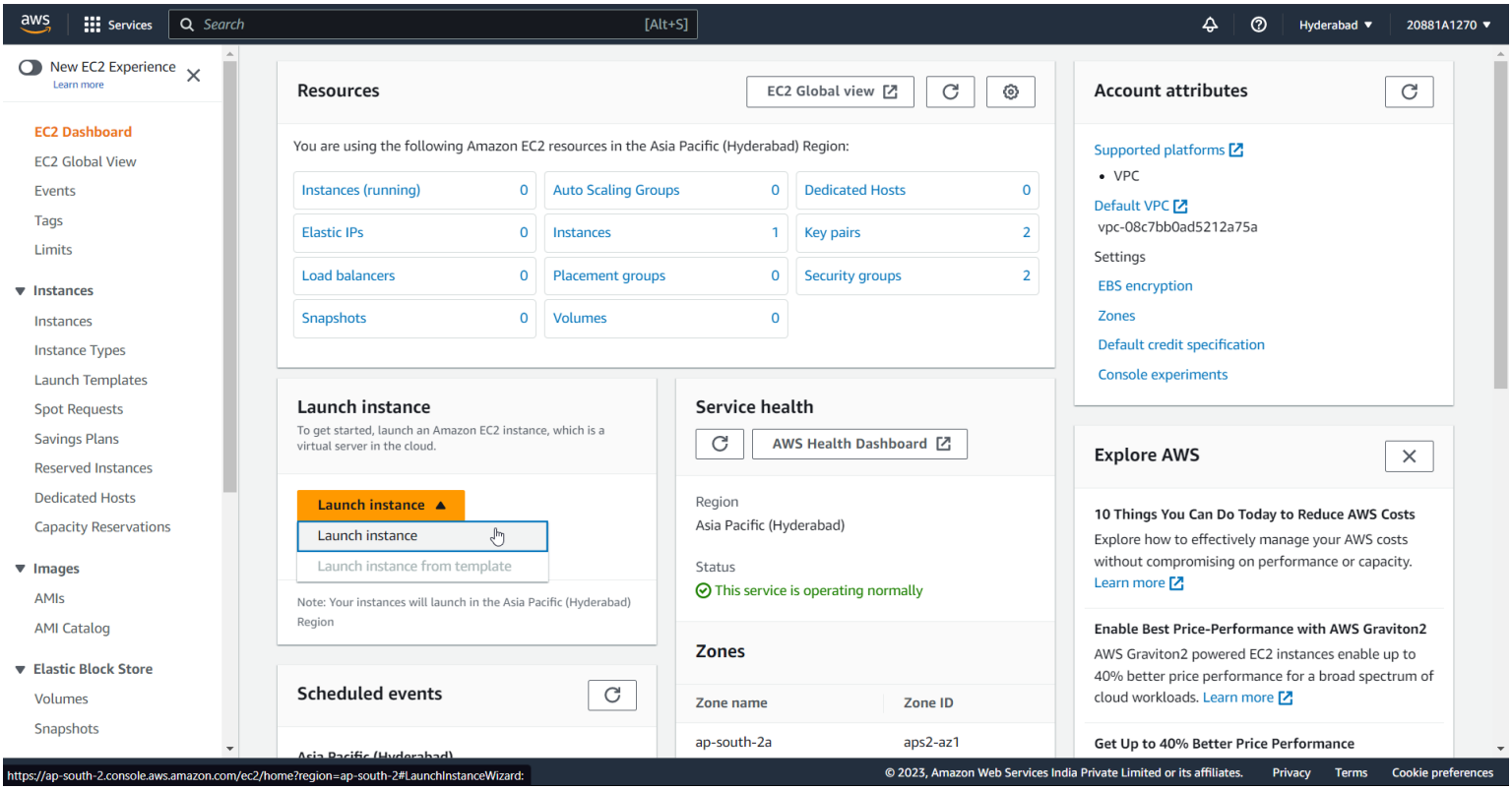
After logging in, select the best suitable region for you from the top right corner.




Then go to Services > Compute > EC2



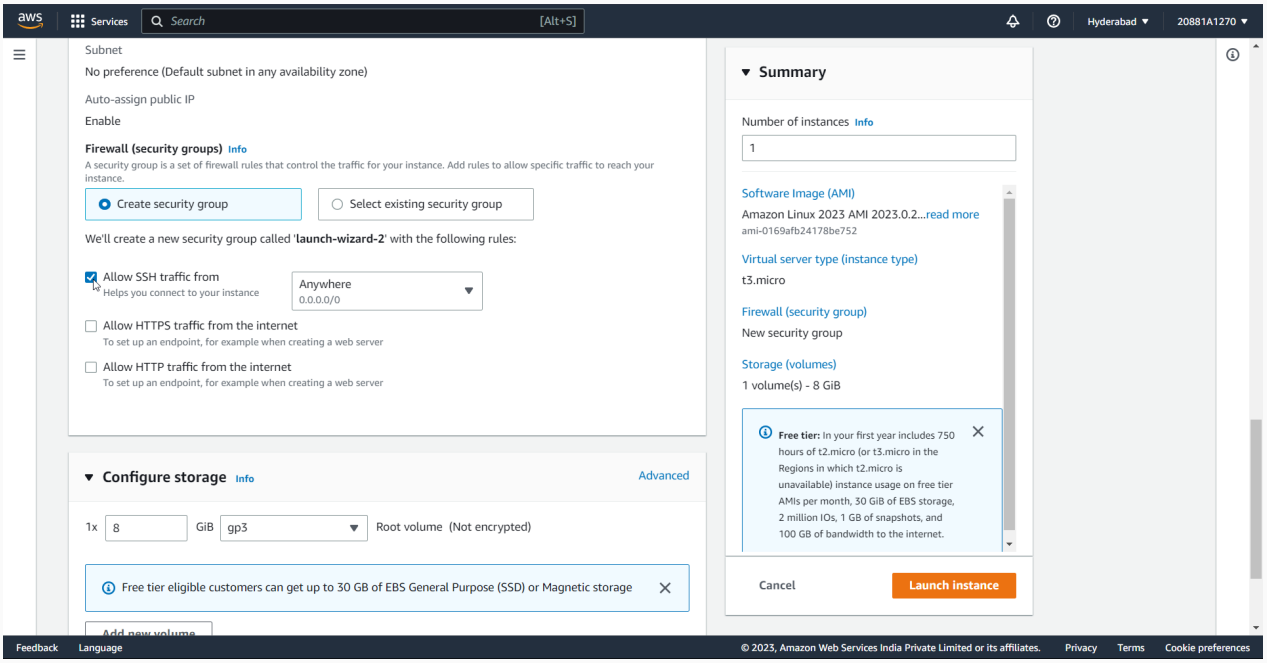
Click on Launch Instance




Enter any Name for the instance

**Application and OS Images (Amazon Machine Image) >** Choose **Amazon Linux / Ubuntu**
**Instance type >** Choose **t2.micro** or any other free eligible type.
**Key pair (login) >** Click on “Create new key pair”
> Enter any name for key pair, Select Key pair type as **RSA**, Select Private Key file format as **.pem**
> Click on create Key pair

**Network settings >** Make sure “**Allow SSH traffic from**” is checked and “**Anywhere**” is selected.



Then click on “**Launch Instance**”

After the server starts running, select the instance to reveal the IP addresses

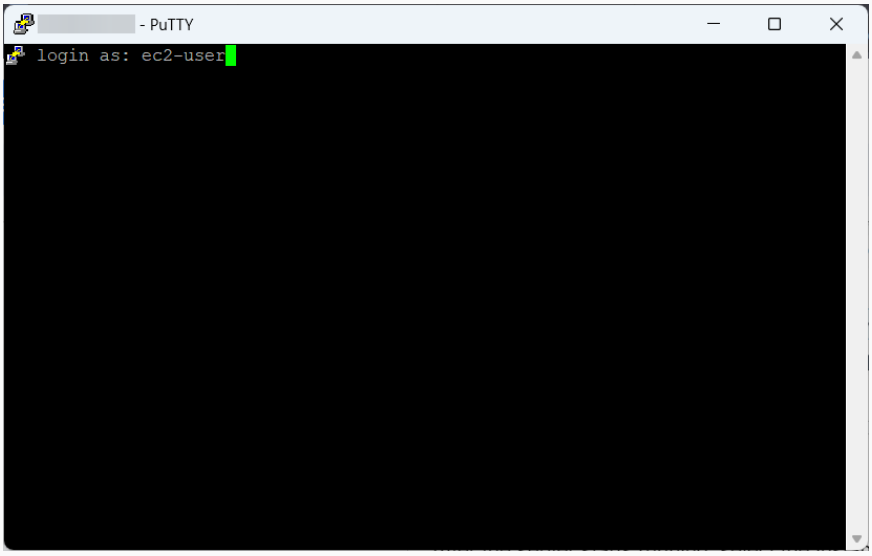
Note the “**Public IPv4 address**” of the instance.

Open the **PuTTYgen** Software > Import key > Browse the .pem key which was downloaded before > Save private key

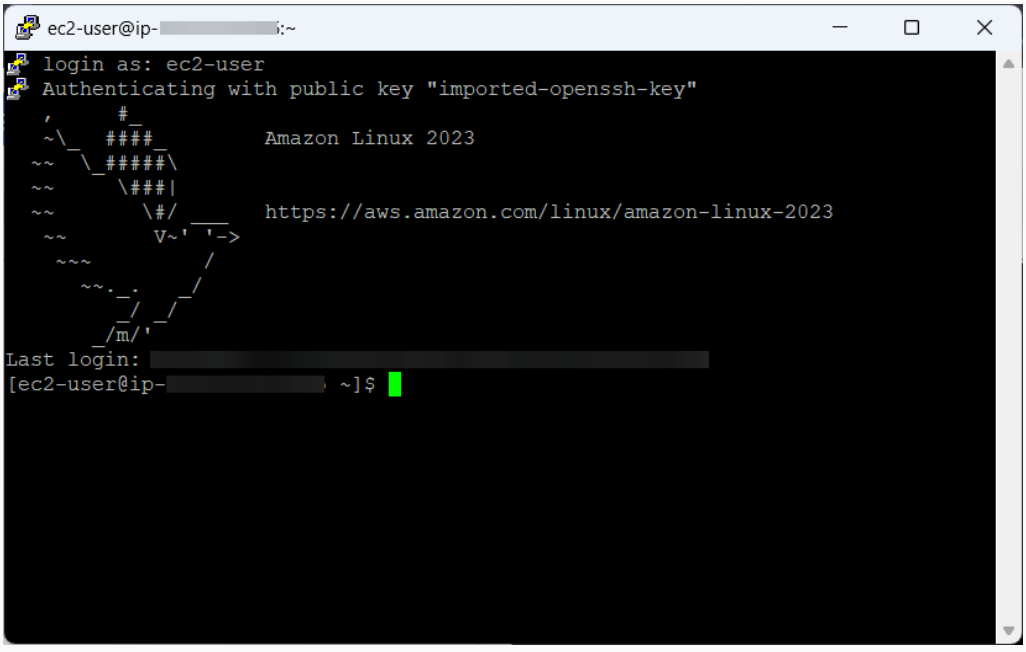
Now the key is saved in .ppk format.

Open **PuTTY** software > Enter the Public IPv4 address noted down before here at “Host Name (IP Address)” Then, Goto the “**Auth**” section > Browse and select the .ppk key in the “Private key for authentication” field > Click “**Open**”.

Enter Username. (“**ec2-user**” for Amazon Linux Instance , “**ubuntu**” for Ubuntu Instance)




You are successfully connected to your Linux EC2 Instance.



# Bonus

### Connect to Ubuntu Desktop AWS EC2 Instance from Remote Desktop Connection on Windows

Step 1: Open a ec2 Ubuntu terminal using PuTTY.

Step 2: Run the following commands on PuTTY Ubuntu terminal step by step

- sudo apt update

Install xrdp to allow RDP connections:

- sudo apt install ubuntu-desktop
- sudo apt install xrdp

Set a password for the ubuntu user:

- sudo passwd ubuntu

Step 3:

- Go to AWS console (EC2 Dashboard)
- Click on Instances(running)
- Select your running Ubuntu instance
- Go to Security
- Click on Security Groups
- Click on Edit inbound rules
- In type drop down select RDP
- It by default select port 3389
- In Source add 0.0.0.0/0 IP
- Click on Save rules

Step 4:

- Open Remote Desktop Connection on windows machine
- Enter Computer: Public IPv4 DNS of Ubuntu ec2 and add username:your_user_name
- click on connect will open up the GUI version of Ubuntu (linux), It asks for password please enter the set password.

Ref

## Creating Windows Instance

Follow the same steps as above to create a Windows EC2 instance.

Enter any Name for the instance.
**Application and OS Images (Amazon Machine Image) >** Choose **Windows**
**Instance type >** Choose **t2.micro** or any other free eligible type.
**Key pair (login) >** Click on “Create new key pair”
> Enter any name for key pair, Select Key pair type as **RSA**, Select Private Key file format as **.pem**
> Click on create Key pair

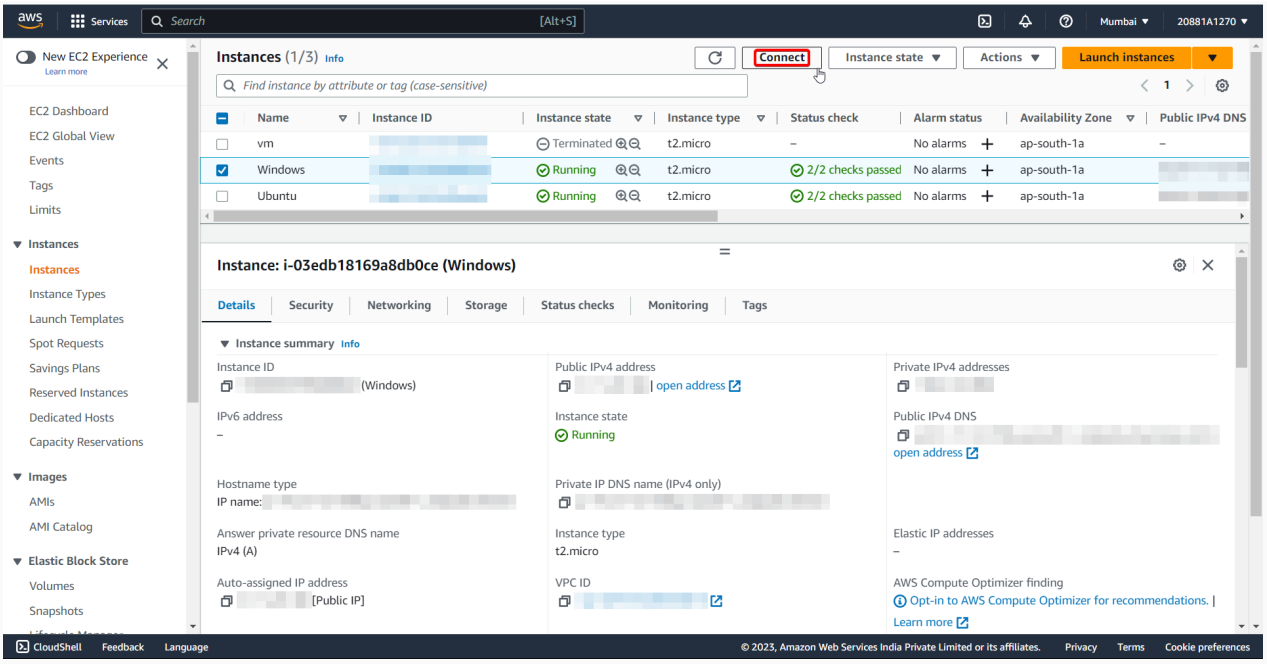
**Network settings >** Make sure “**Allow RDP traffic from**” is checked and “**Anywhere**” is selected.

Then click on “**Launch Instance**”

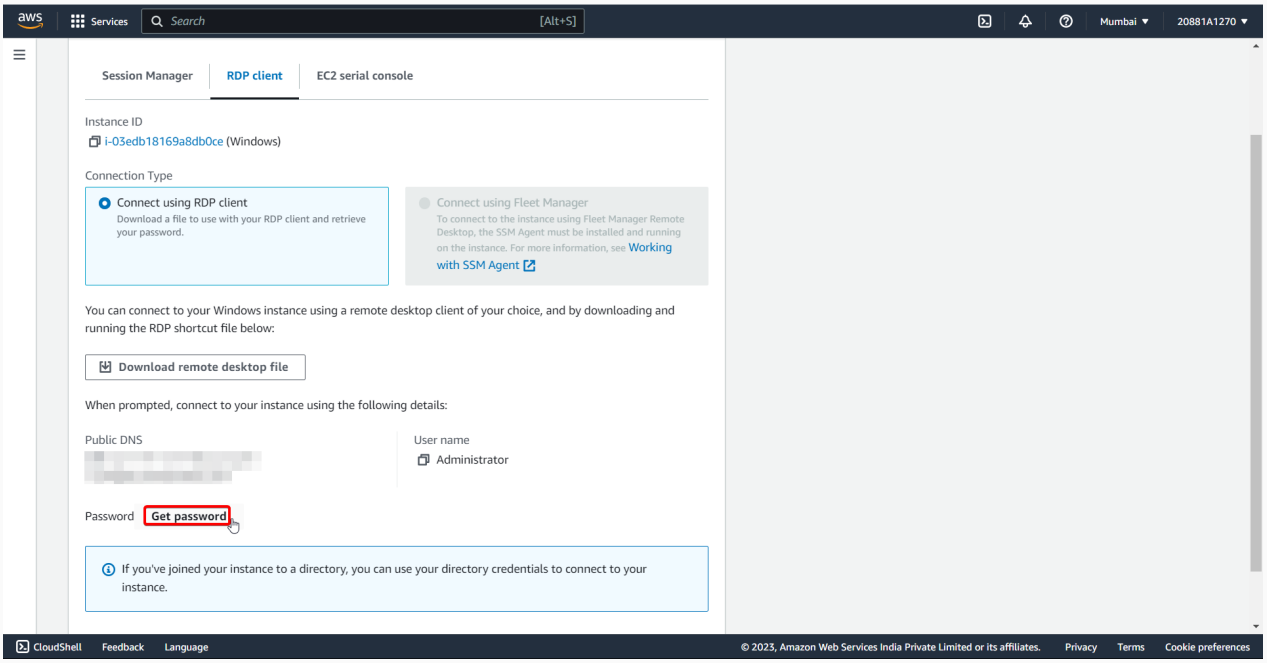
After the server starts running, select the instance to reveal the IP addresses

Note the “**Public IPv4 DNS**” of the instance.

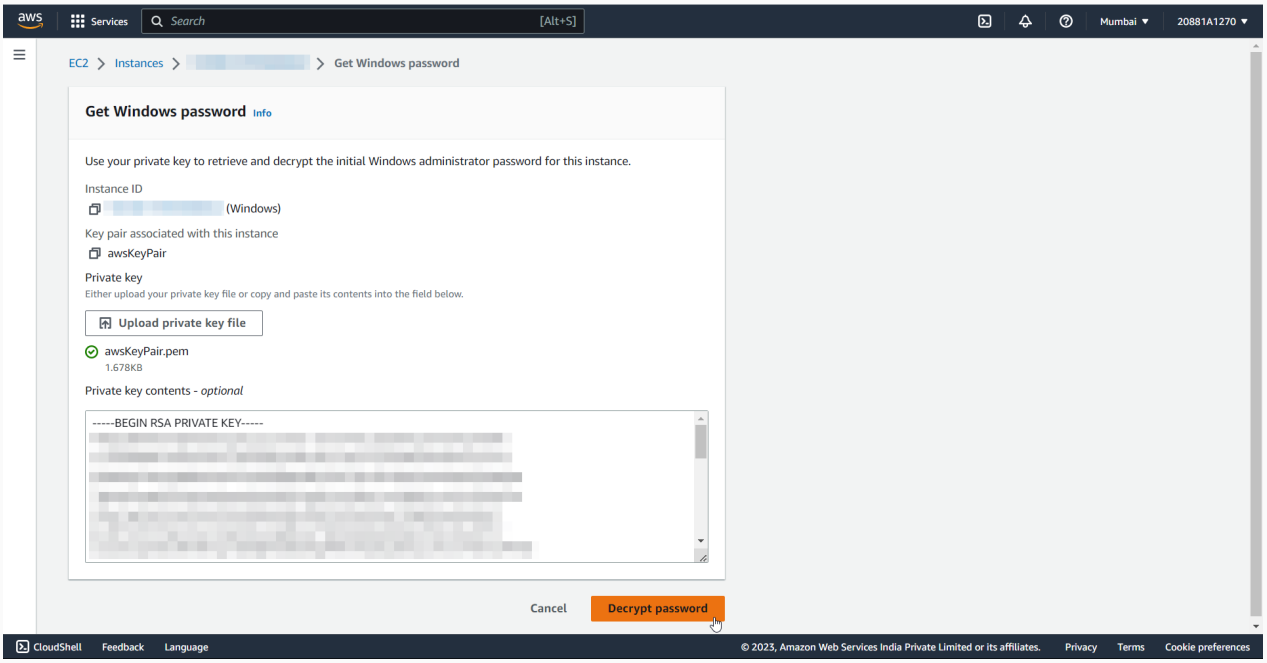
Select the instance > Click on the **Connect** button



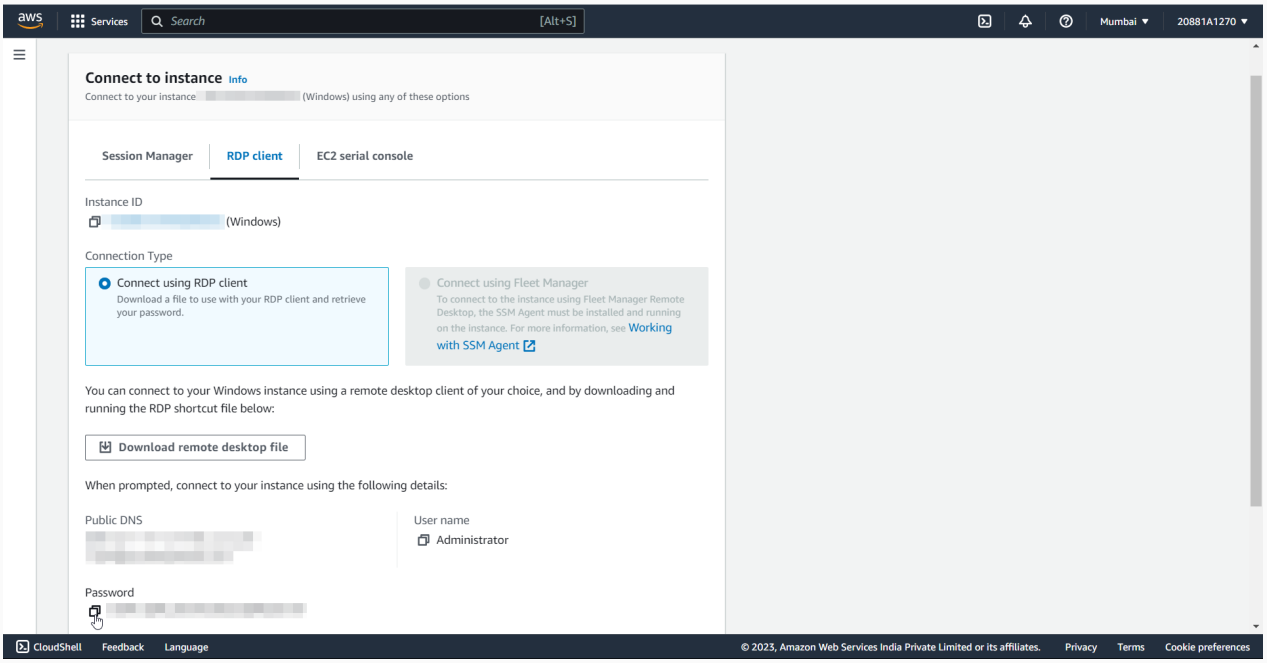
Go to **RDP Client** tab > Click on **Get Password**



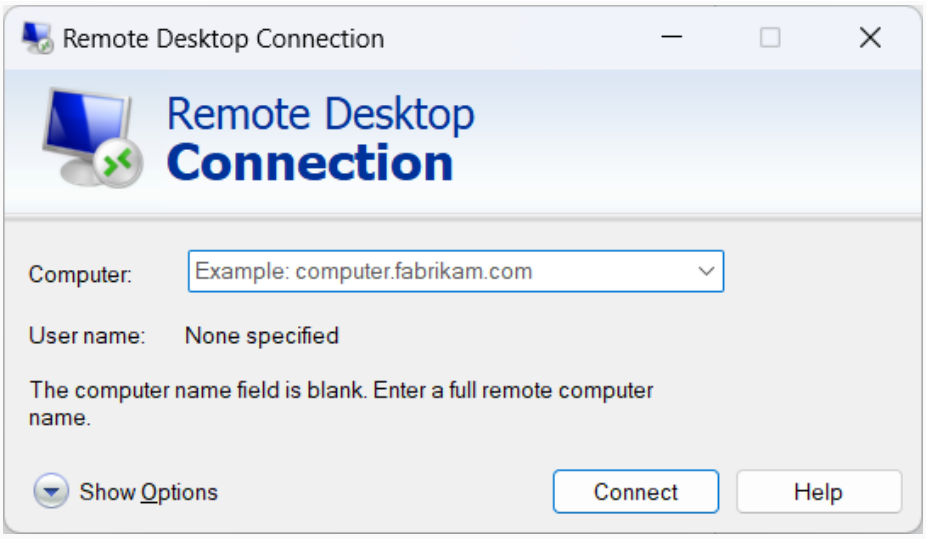

Click on **Upload private key file** and upload your key_pair_name.pem file > Click on **Decrypt password**



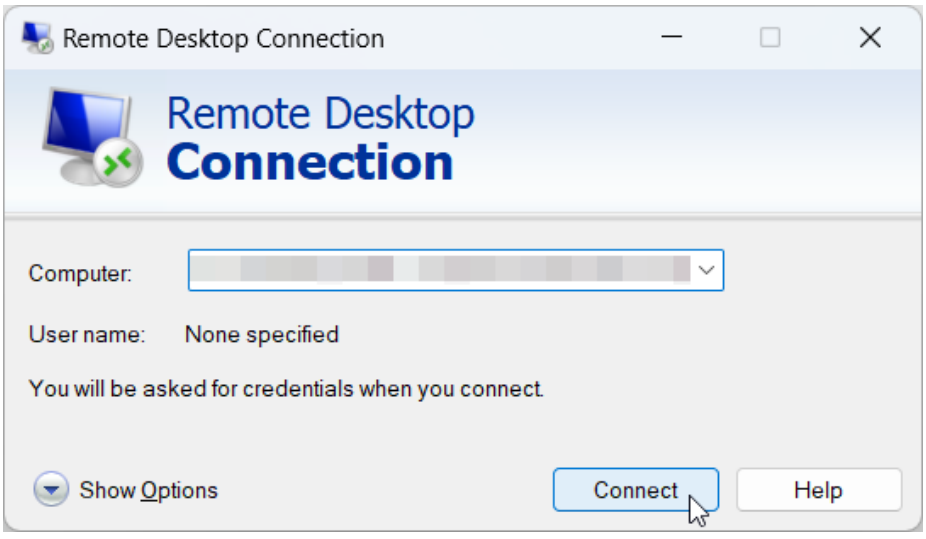
Note down your **Public IPv4 DNS, Username** and **Password**



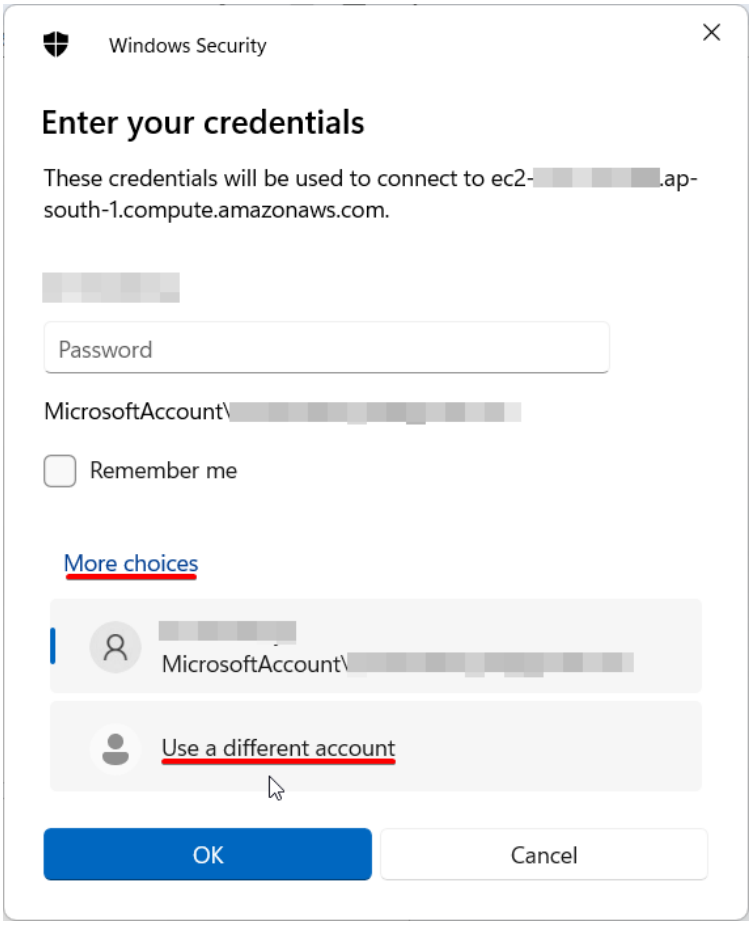

Open **Remote Desktop Connection** software in your local machine



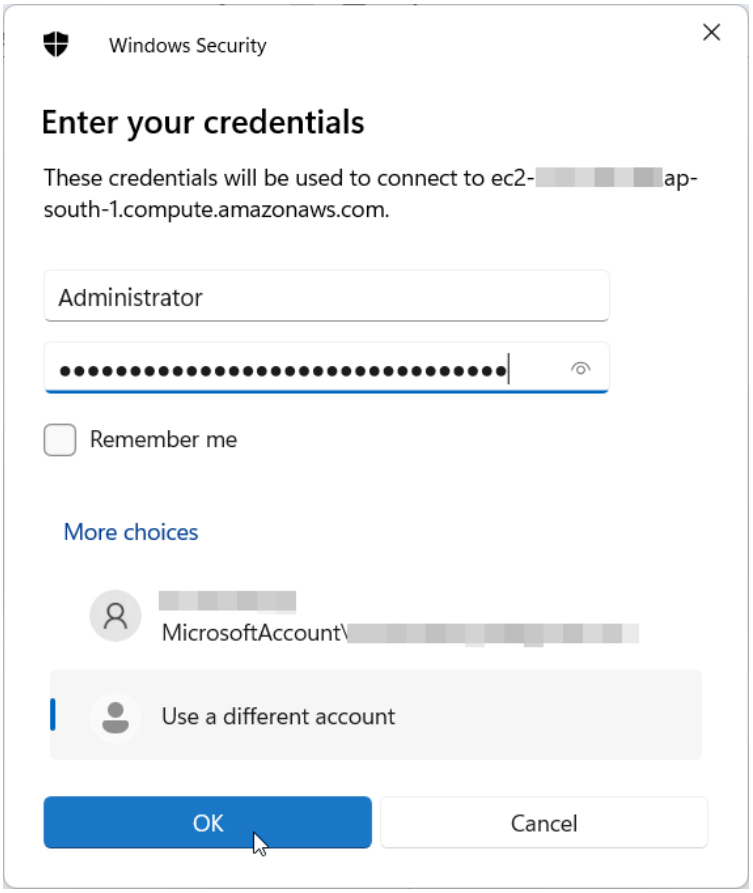

Enter the **Public IPv4 DNS** noted earlier > Click on **Connect**



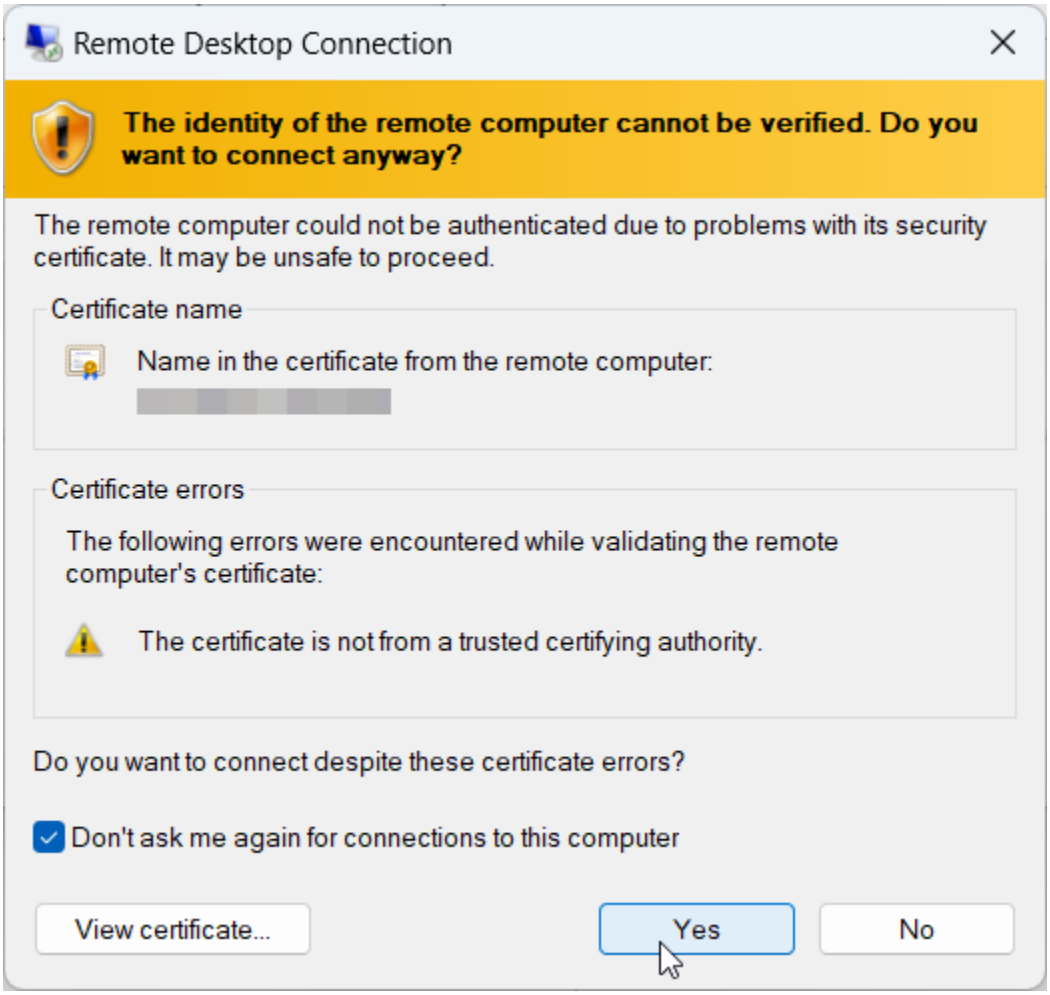
When asked for credentials, Click on more choices > Use a different account




Enter your Username and Password noted earlier and click on **OK**



Click **Yes**




You are successfully connected to your Windows EC2 instance.