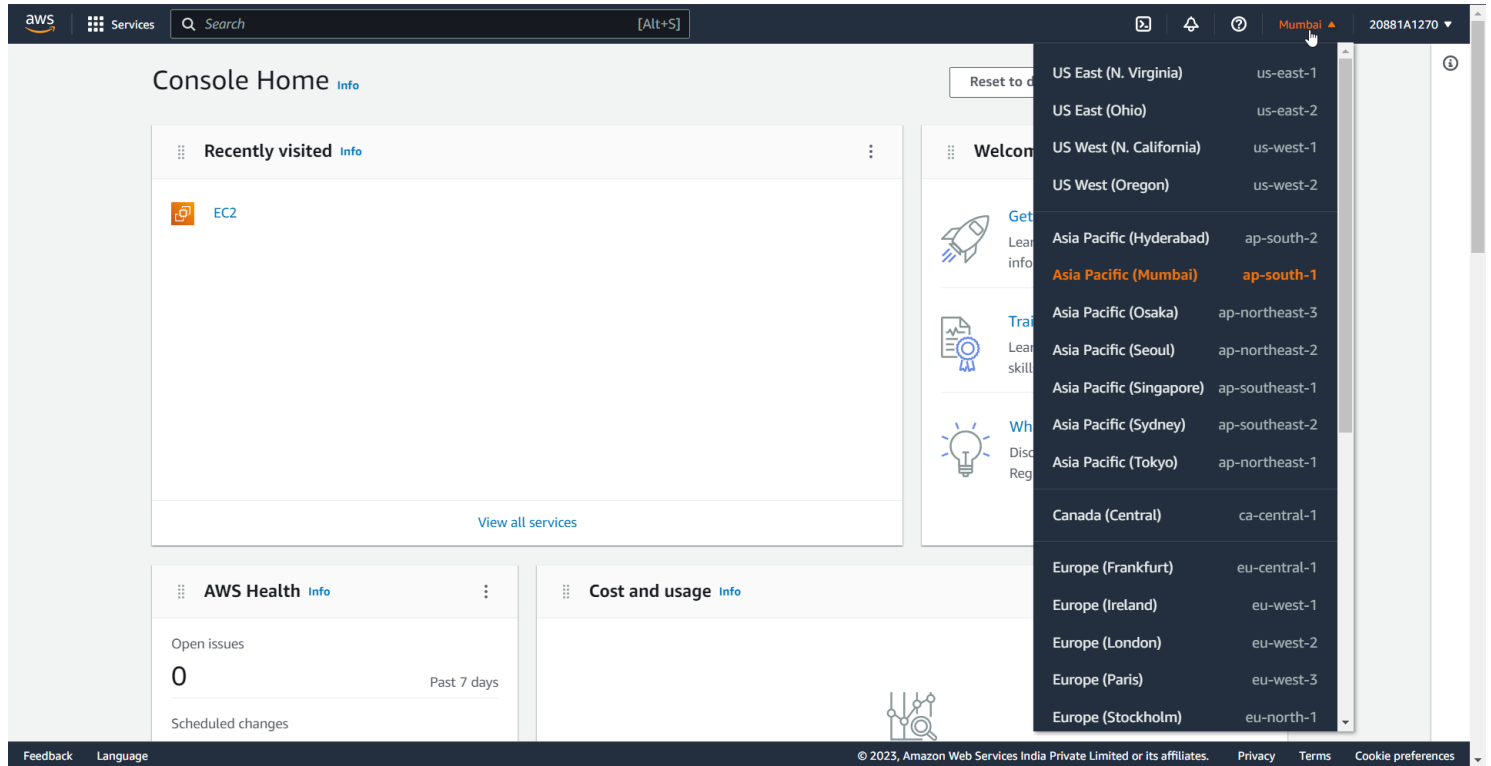


4. Create a ssh tunnel between your server in local machine and remote clients in EC2 instances.

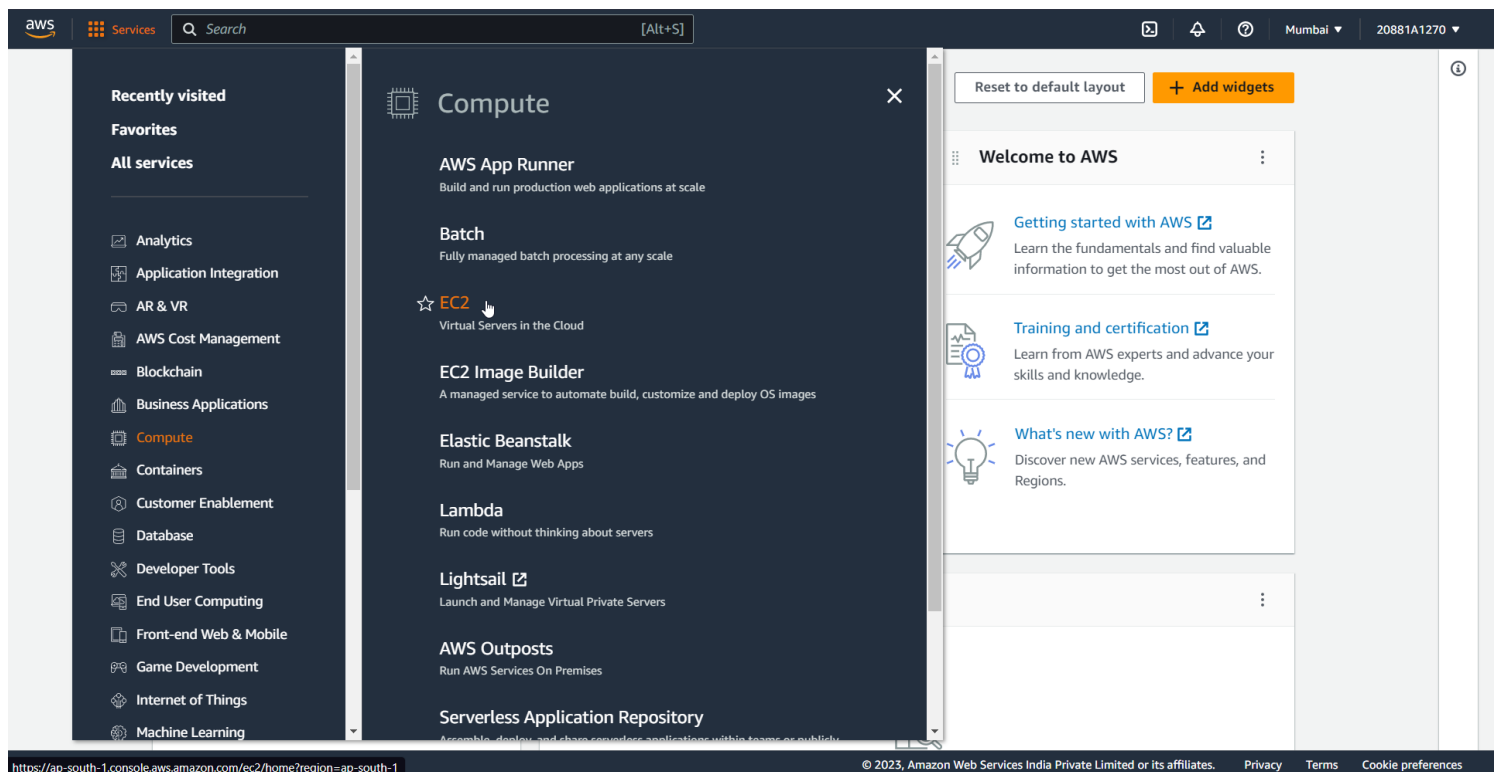
Creating Linux Instance

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

The screenshot shows the AWS Management Console interface. On the left, the 'EC2 Dashboard' is visible with a sidebar containing links to 'Instances', 'Images', and 'Elastic Block Store'. The main content area is titled 'Resources' and shows a summary of EC2 resources in the Asia Pacific (Hyderabad) region. Below this, the 'Launch instance' section is highlighted, showing a 'Launch instance' button with a hand cursor over it. The 'Service health' section indicates that the service is operating normally. The 'Account attributes' section shows supported platforms and settings. The 'Explore AWS' section provides information on reducing costs and enabling best price-performance with AWS Graviton2.

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.

The screenshot shows the 'Launch instance' wizard in the AWS Management Console. The 'Network settings' section is expanded, showing options for subnet, auto-assign public IP, and firewall rules. The 'Firewall (security groups)' section is checked, and the 'Allow SSH traffic from' option is selected with 'Anywhere' as the source. The 'Configure storage' section shows a single volume of 8 GiB using gp3 storage. The 'Summary' section on the right provides a overview of the configuration, including the number of instances (1), the software image (Amazon Linux 2023.0.2), the virtual server type (t3.micro), and the firewall (security group). A 'Free tier' notification is displayed, indicating that the configuration is eligible for the free tier. The 'Launch instance' button is visible at the bottom right.

Then click on “**Launch Instance**”

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

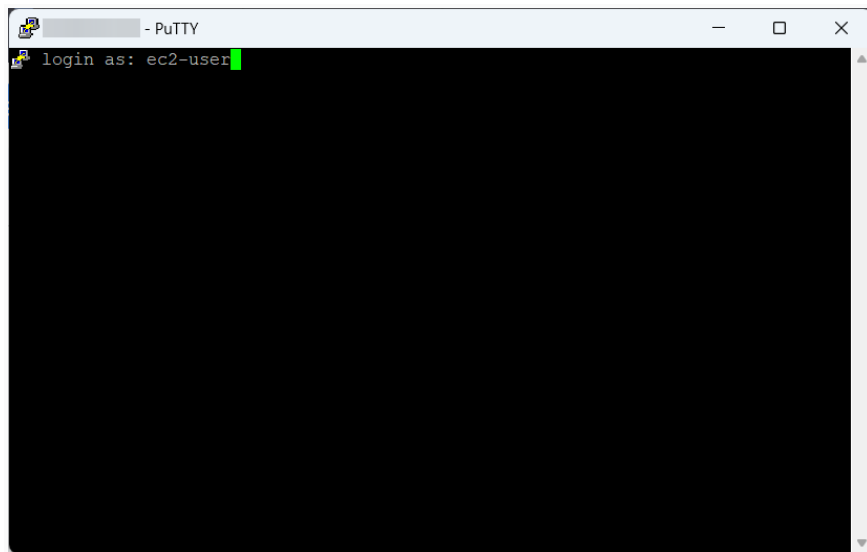
Note the “**Public IPv4 address**” of the instance.

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

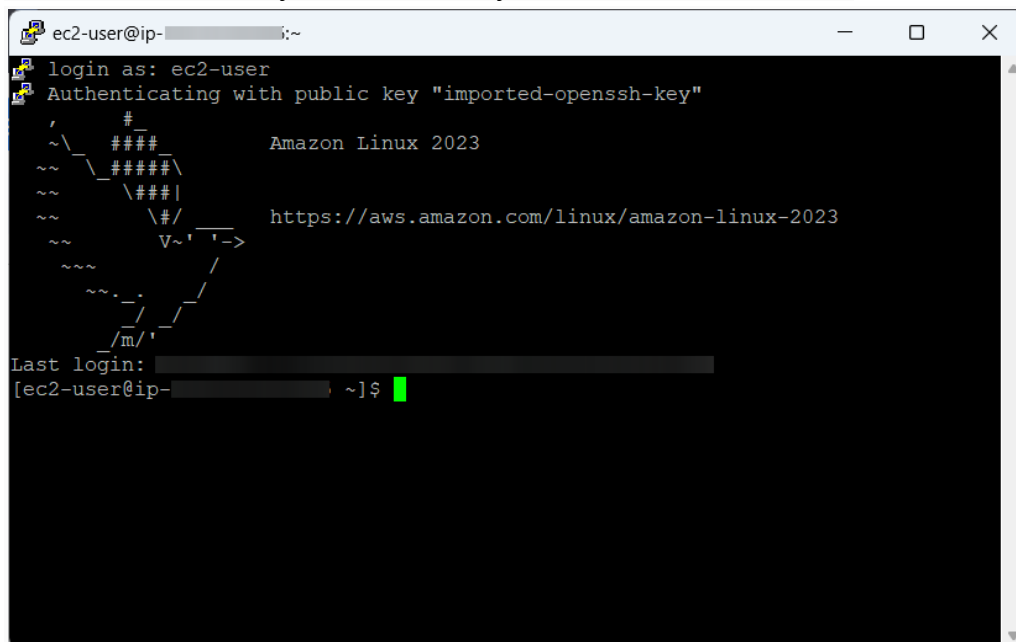
Now the key is saved in .ppk format.

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

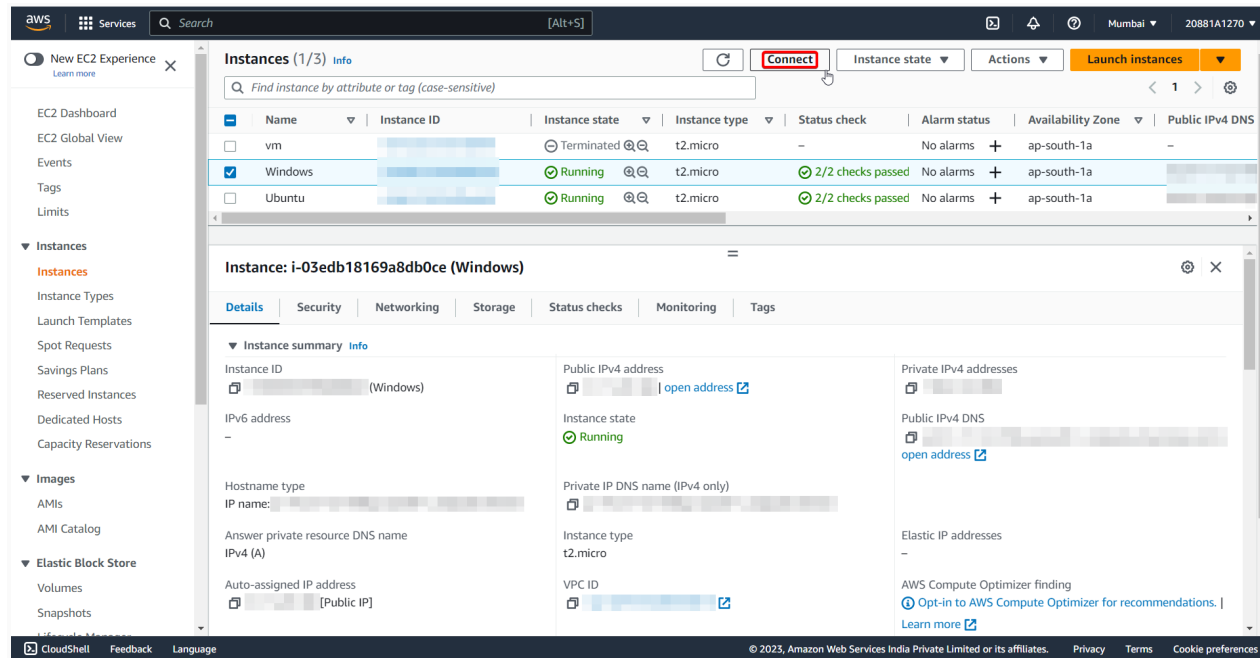
Network settings > Make sure “**Allow RDP traffic from**” is checked and “**Anywhere**” is selected.

Then click on “**Launch Instance**”

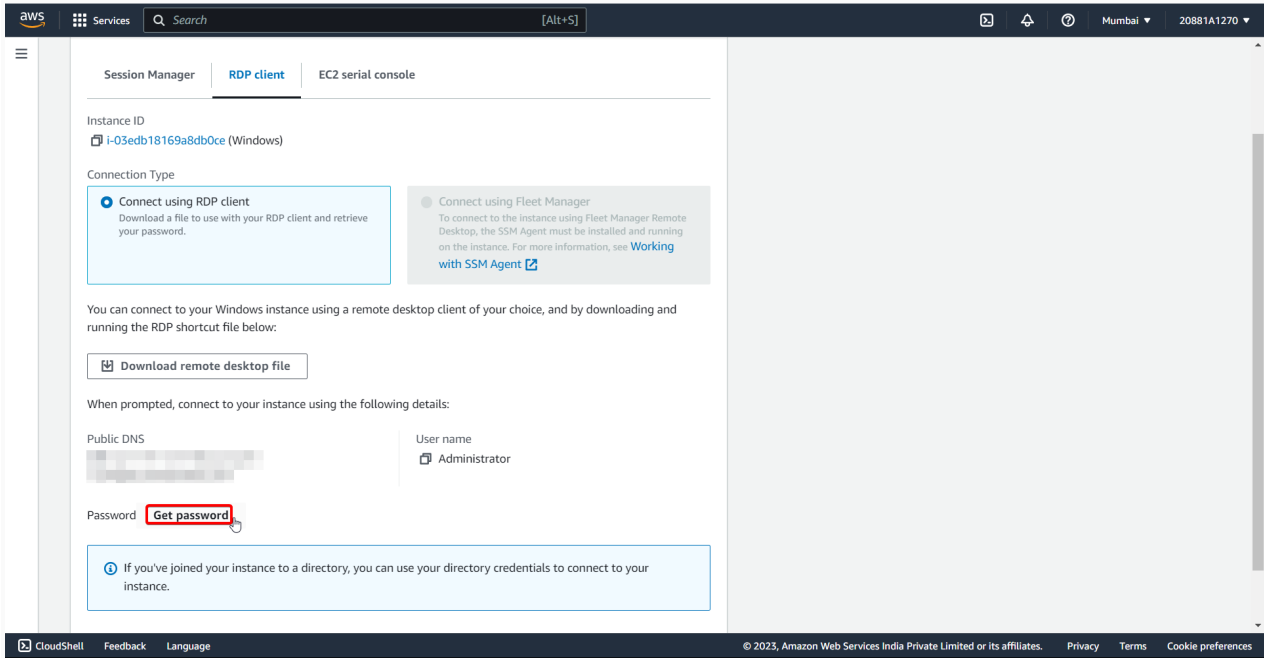
After the server starts running, select the instance to reveal the IP addresses

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

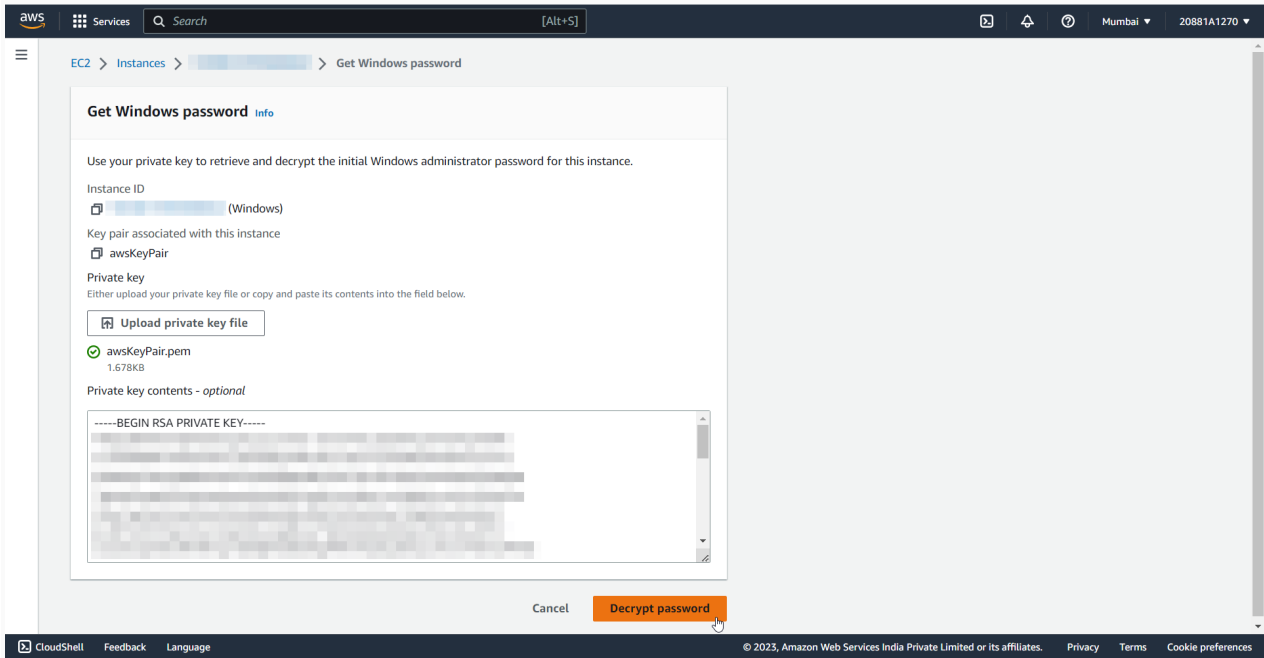
Select the instance > Click on the **Connect** button



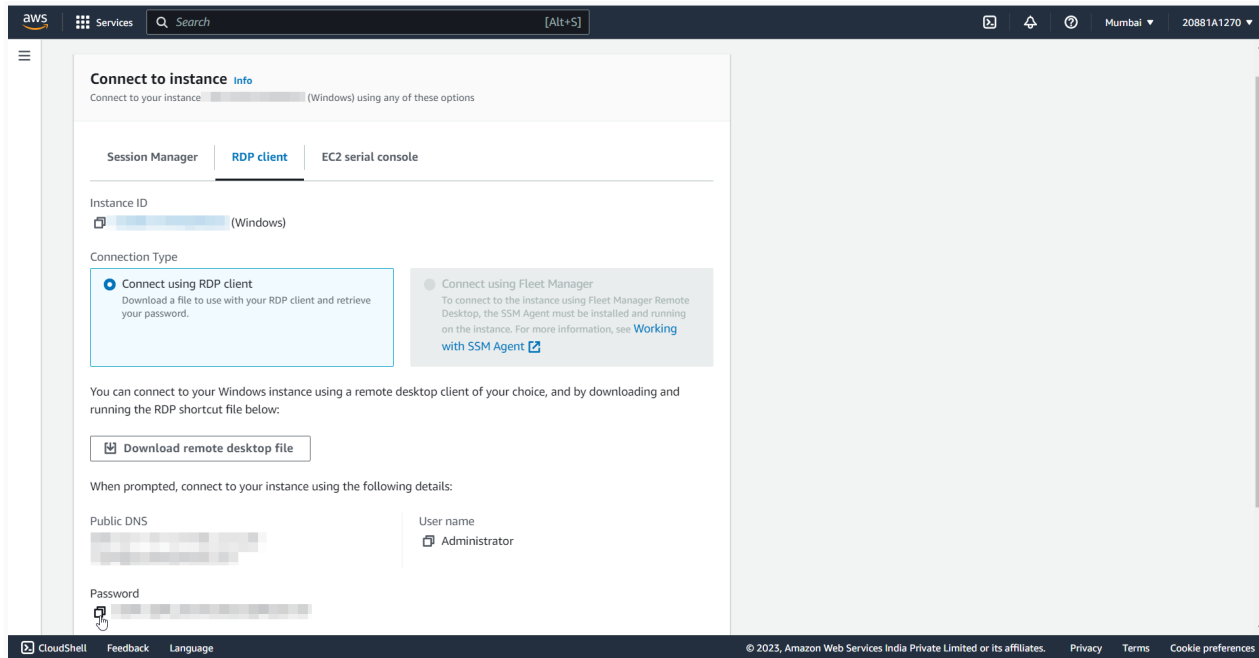
Go to **RDP Client** tab > Click on **Get Password**



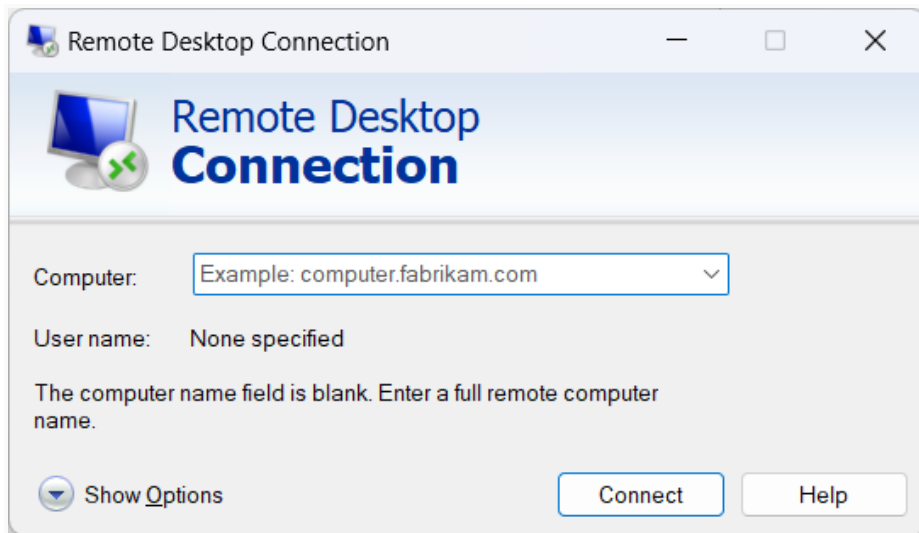
Click on **Upload private key file** and upload your key_pair_name.pem file > Click on **Decrypt password**



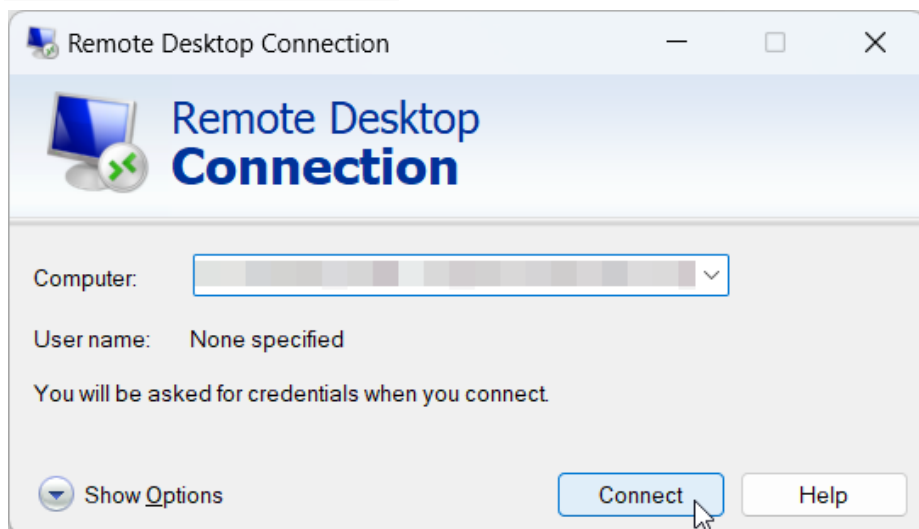
Note down your **Public IPv4 DNS**, **Username** and **Password**



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

Windows Security

Enter your credentials

These credentials will be used to connect to ec2-

ap-south-1.compute.amazonaws.com

.

Password

MicrosoftAccount\

☐ Remember me

[More choices](#)

MicrosoftAccount\

Use a different account

OK

Cancel

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

Windows Security

Enter your credentials

These credentials will be used to connect to ec2-

ap-south-1.compute.amazonaws.com

.

Administrator

☐ Remember me

[More choices](#)

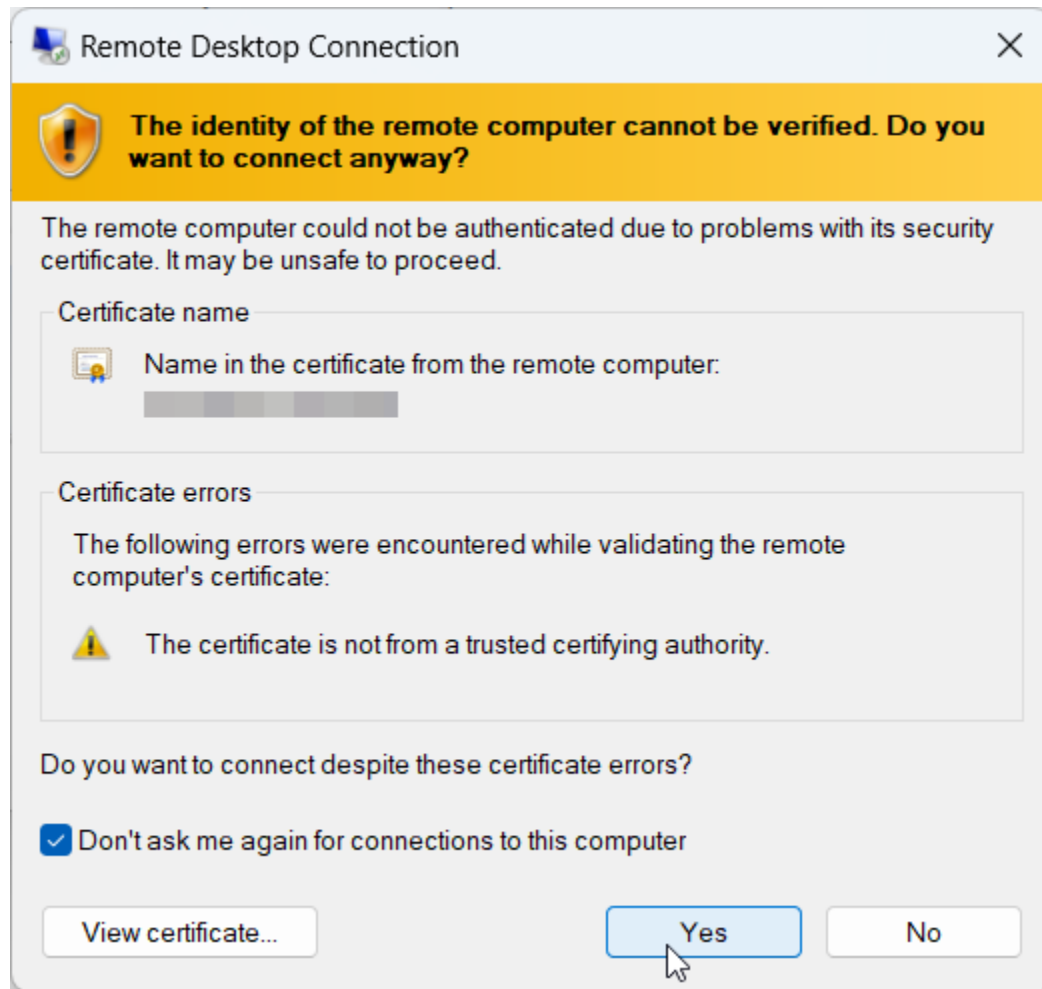
MicrosoftAccount\

Use a different account

OK

Cancel

Click **Yes**



You are successfully connected to your Windows EC2 instance.

