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Msc SDS Batch 2

Cloud Computing Prac 1

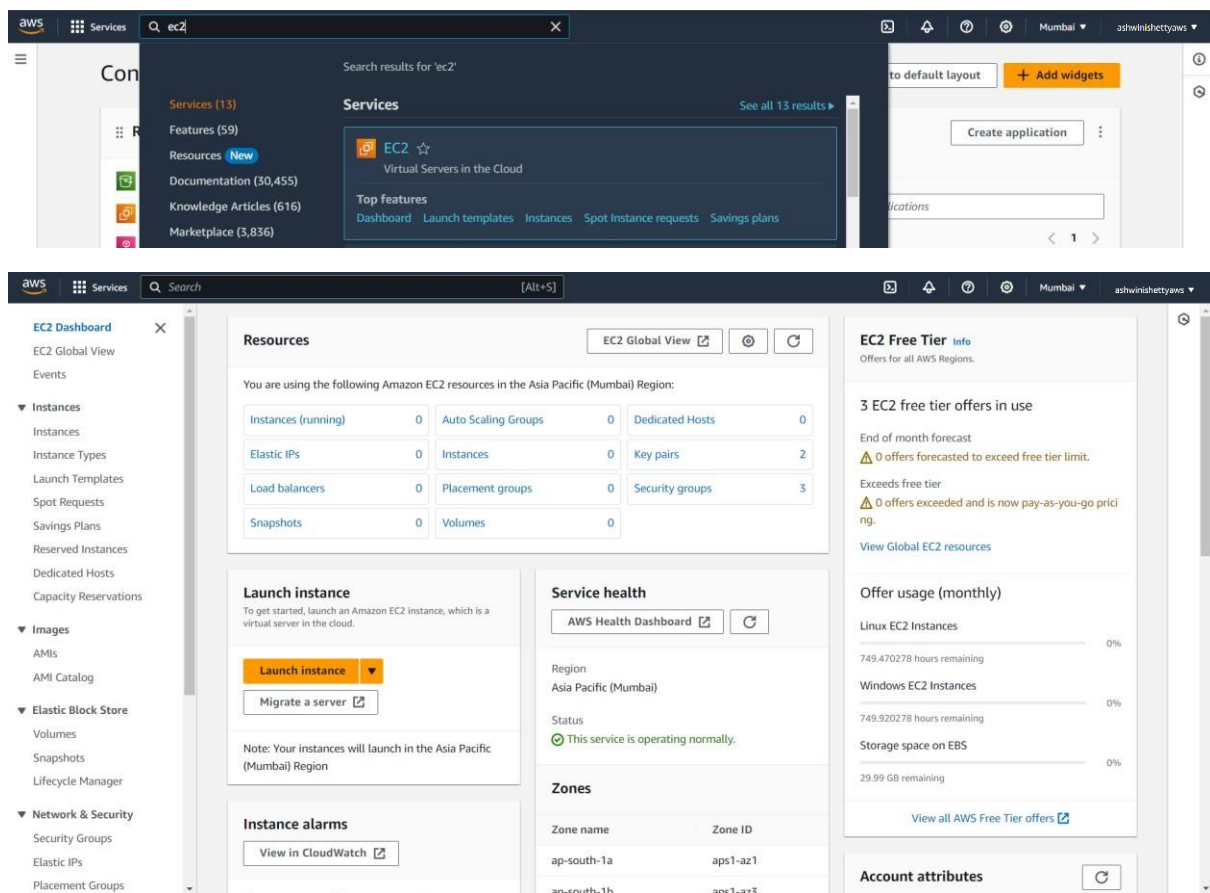
1) Implement the Ubuntu machine using AWS EC2 and execute the Linux commands.

Steps:

Open Amazon Web Services (AWS) and login into the services.

Search EC2 on the search tab.

Click on EC2.



Click on Launch instance.

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name
e.g. My Web Server [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents **Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li [Browse more AMIs](#)
aws Mac ubuntu Microsoft Red Hat SUS! Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023.5.2...[read more](#)
ami-068e0f1a600cd311c

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB

Cancel **Launch instance**
[Review commands](#)

Give the name to the instance and select the Ubuntu option.

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name
Ubuntu [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

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Amazon Linux macOS **Ubuntu** Windows Red Hat SUSE Li [Browse more AMIs](#)
aws Mac ubuntu Microsoft Red Hat SUS! Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-0ad21ae1d0696ad58

Virtual server type (instance type)
t2.micro

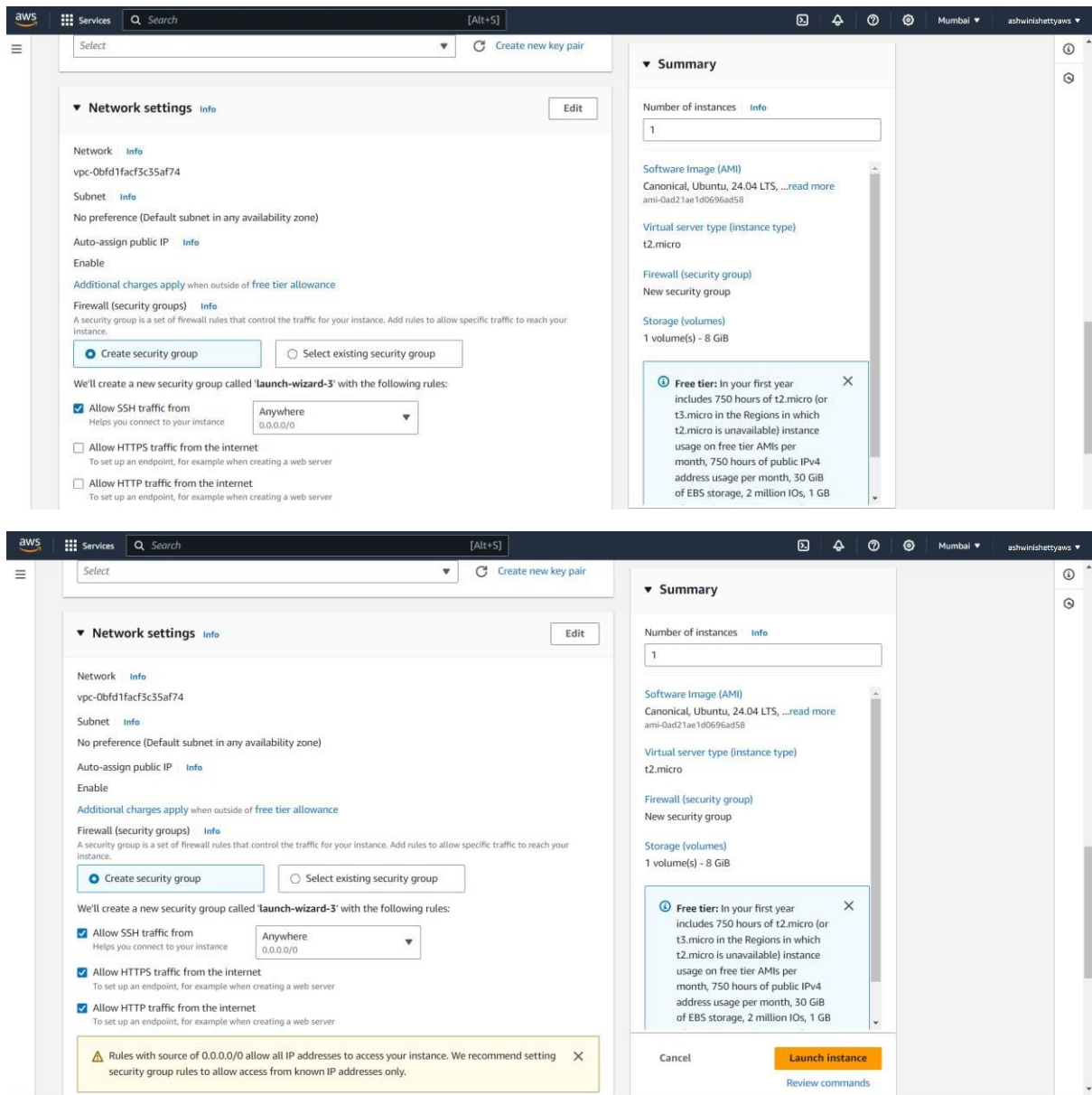
Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB

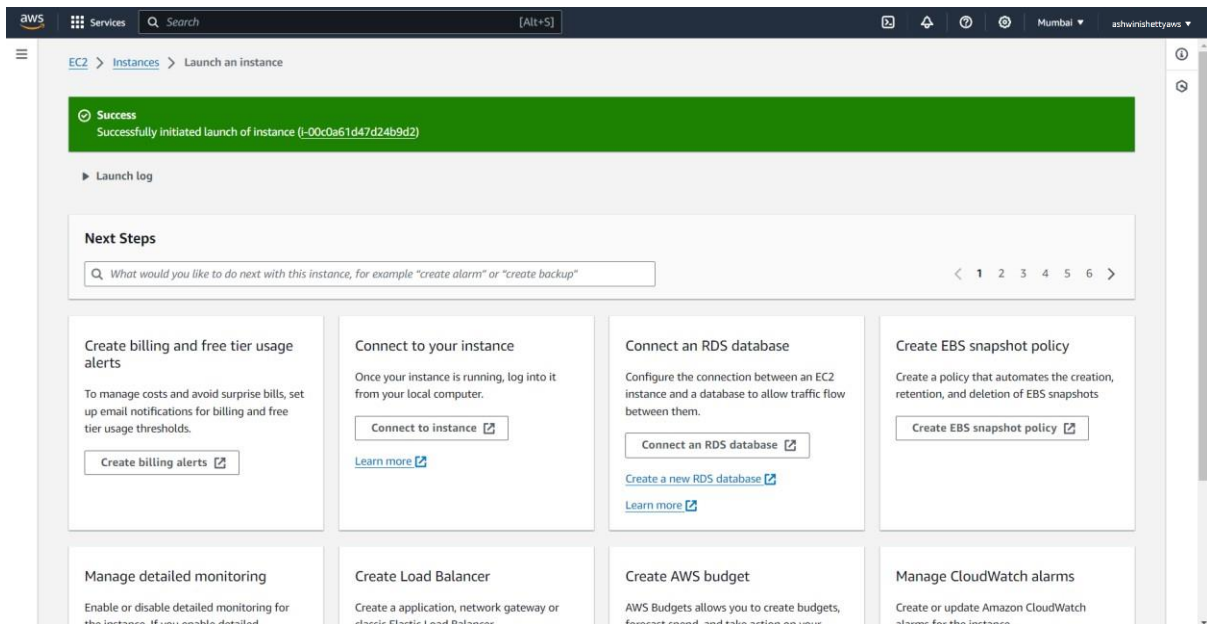
Cancel **Launch instance**
[Review commands](#)

Scroll down and select all the three options i.e Allow SSH, HTTPS, HTTP.

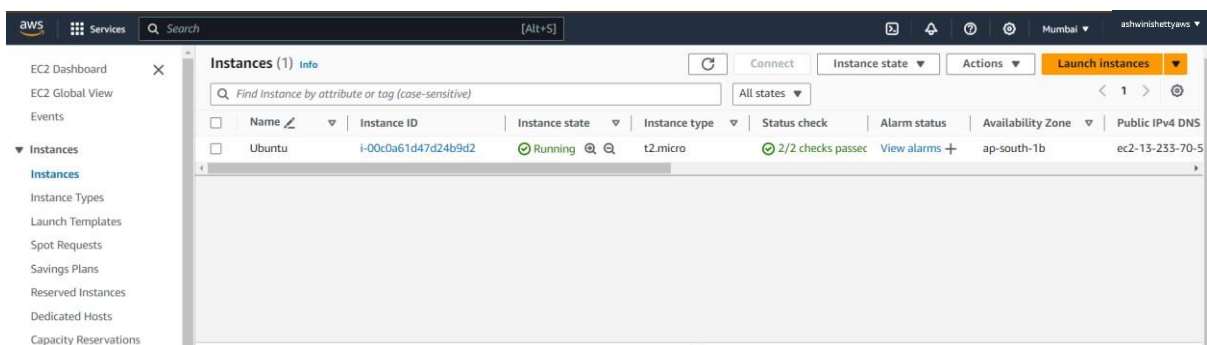


Click on Launch instance.

Next is to create a key pair so give a unique name to key pair and select .pem option and by default RSA option should be selected if not select that option.

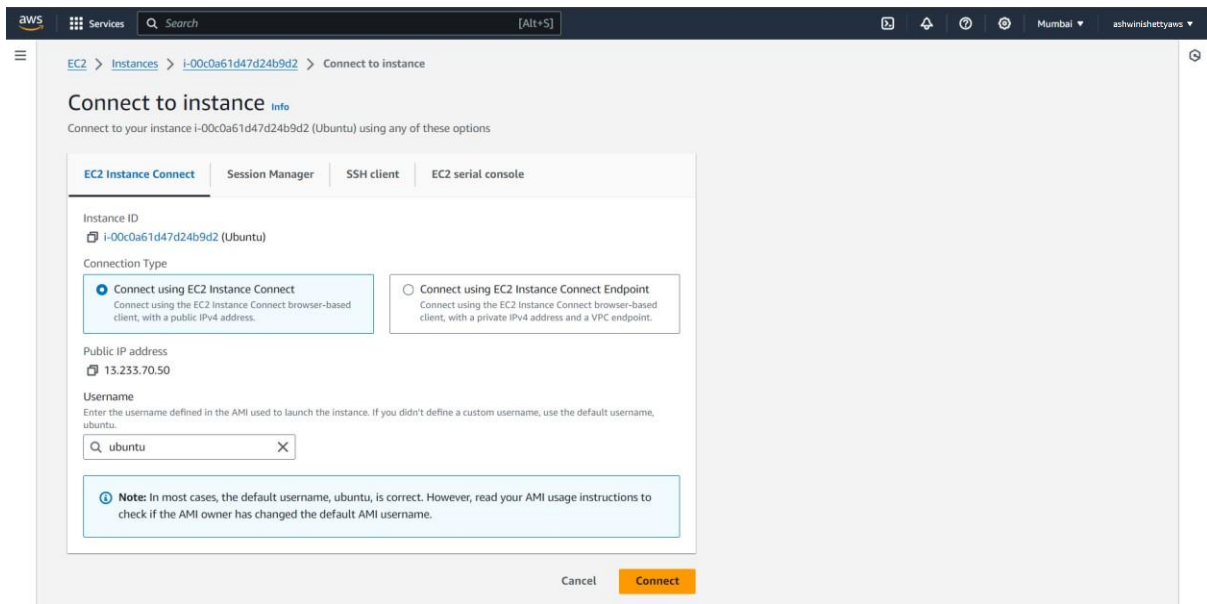


Now click on the three horizontal bar and then click on instances.



Now click on instance id link after that click on Connect .





Click on Connect and a cmd prompt of Ubuntu Machine will load.

```
aws
Services
Search
[Alt+S]
Mumbai
ashwinshettyaws

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Sat Jul 27 17:23:30 UTC 2024

System load: 0.0      Processes:      104
Usage of /: 22.7% of 6.71GB   Users logged in: 0
Memory usage: 19%      IPv4 address for enX0: 172.31.9.133
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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-172-31-9-133:~$
```

Now run some linux cmd prompts.

```
aws
Services
Search
[Alt+S]
Mumbai
ashwinishettyans

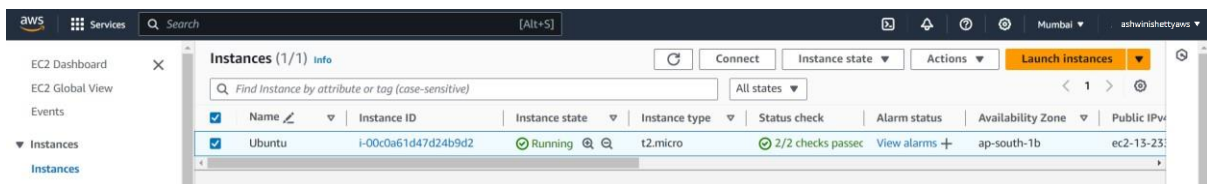
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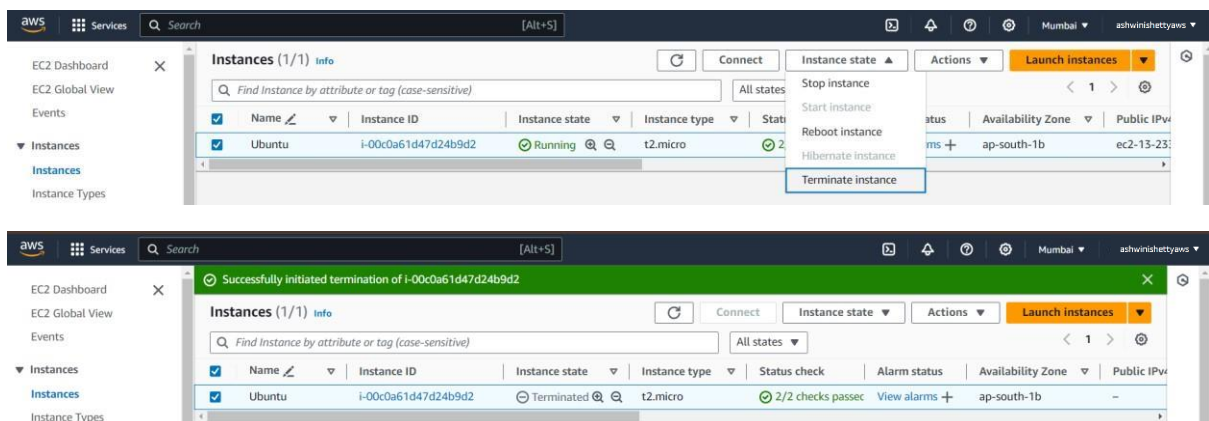
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-9-133:~$ date
Sat Jul 27 17:25:58 UTC 2024
ubuntu@ip-172-31-9-133:~$ mkdir akhilesh
ubuntu@ip-172-31-9-133:~$ cd akhilesh
ubuntu@ip-172-31-9-133:~/akhilesh$ whoami
ubuntu
ubuntu@ip-172-31-9-133:~/akhilesh$ uname
Linux
ubuntu@ip-172-31-9-133:~/akhilesh$ man
What manual page do you want?
For example, try 'man man'.
ubuntu@ip-172-31-9-133:~/akhilesh$ man man
man: can't resolve man/groff.man.7
ubuntu@ip-172-31-9-133:~/akhilesh$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
/dev/root        7034376 1609616   5408376   23% /
tmpfs            490208      0    490208    0% /dev/shm
tmpfs            196084      868   195216    1% /run
tmpfs             5120      0     5120    0% /run/lock
/dev/xvda16      901520    76972   761420   10% /boot
/dev/xvda15     106832    6246   100586    6% /boot/efi
tmpfs             98040     12     98028    1% /run/user/1000
ubuntu@ip-172-31-9-133:~/akhilesh$
```

Now close this window and we will again see our instance window after working instance our step is to terminate this instance.



Click on instance state and then select Terminate instance.

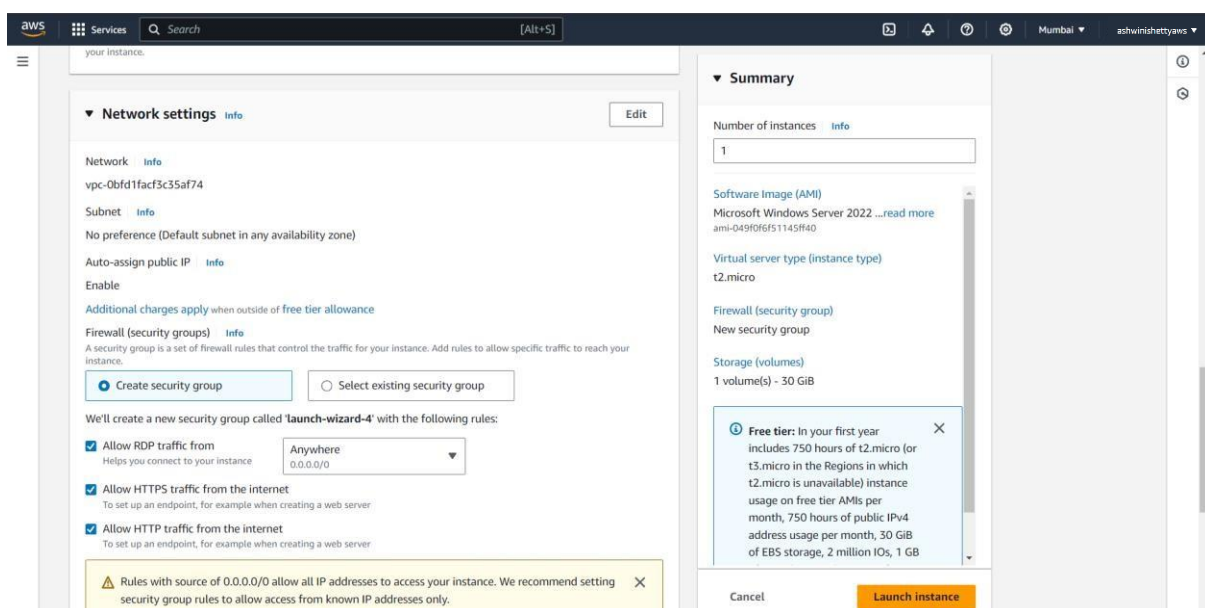
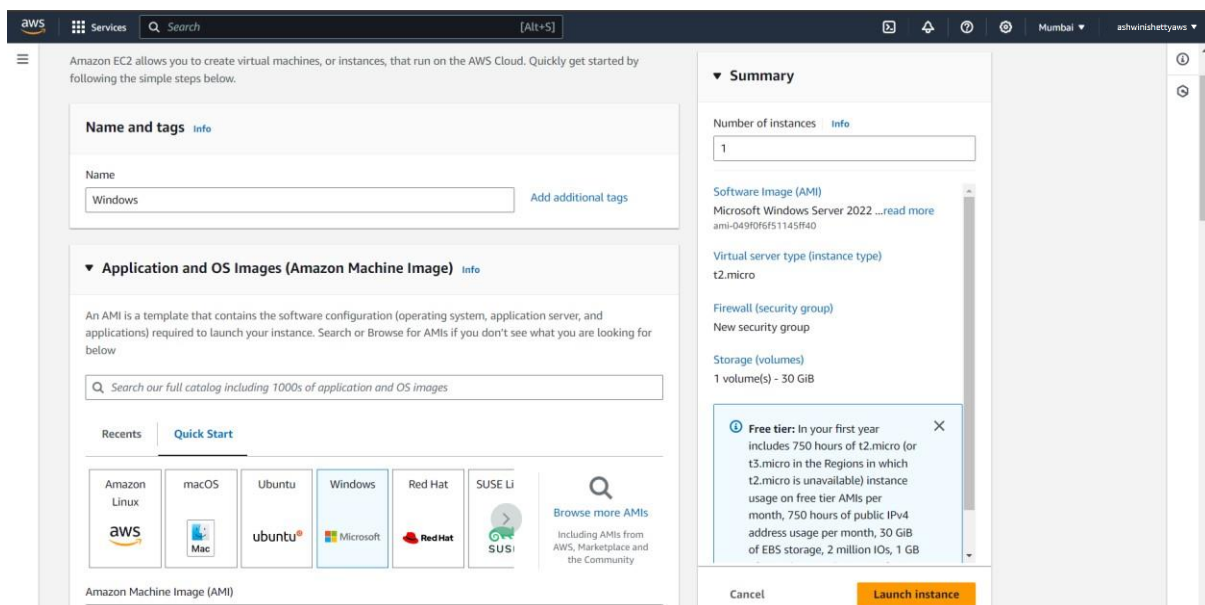
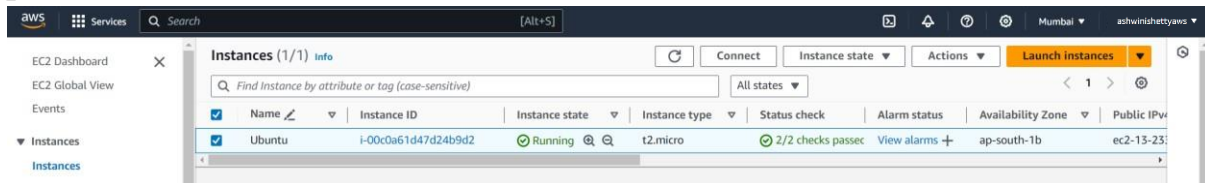


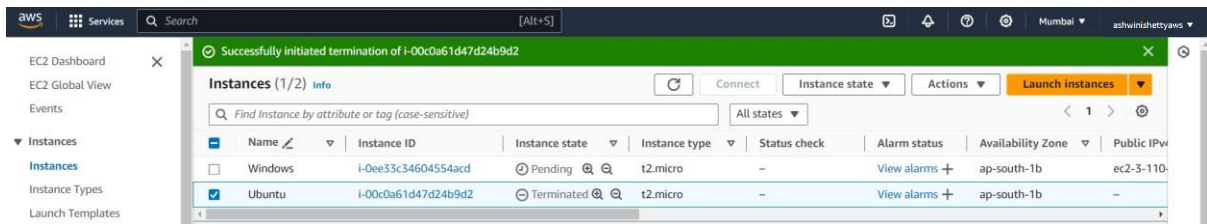
2) Implement the windows machine using AWS EC2.

Steps:

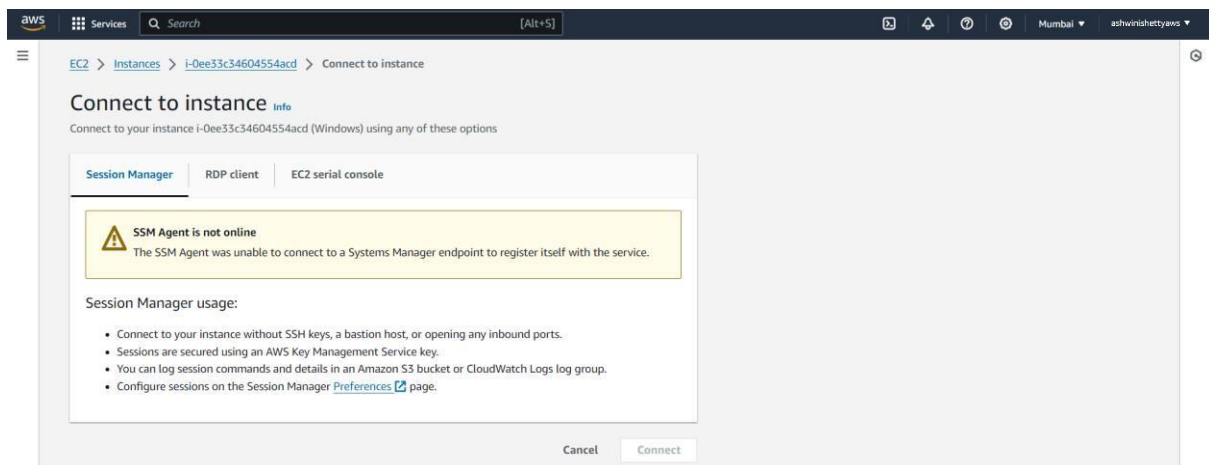
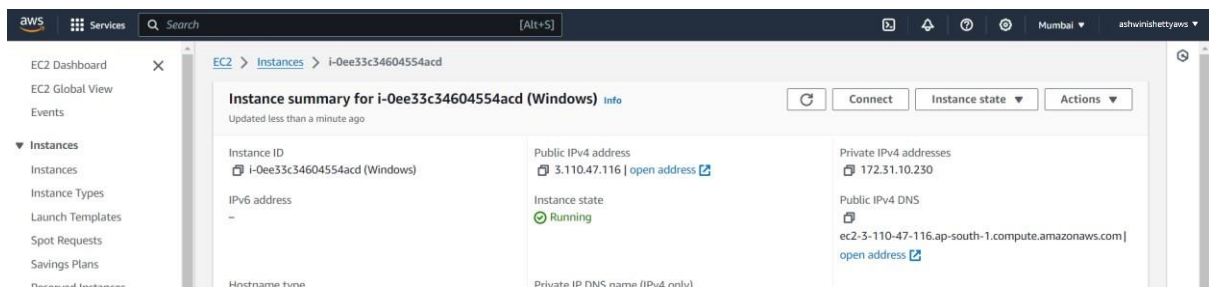
Repeat the same steps as mentioned above for Ubuntu machine EC2 instead of selecting Ubuntu we have to choose Windows Option.

Otherwise when we are in our instance page and we did not logout from AWS then click on Launch instance for creating a new instance and then repeat same process as mentioned for ubuntu machine.

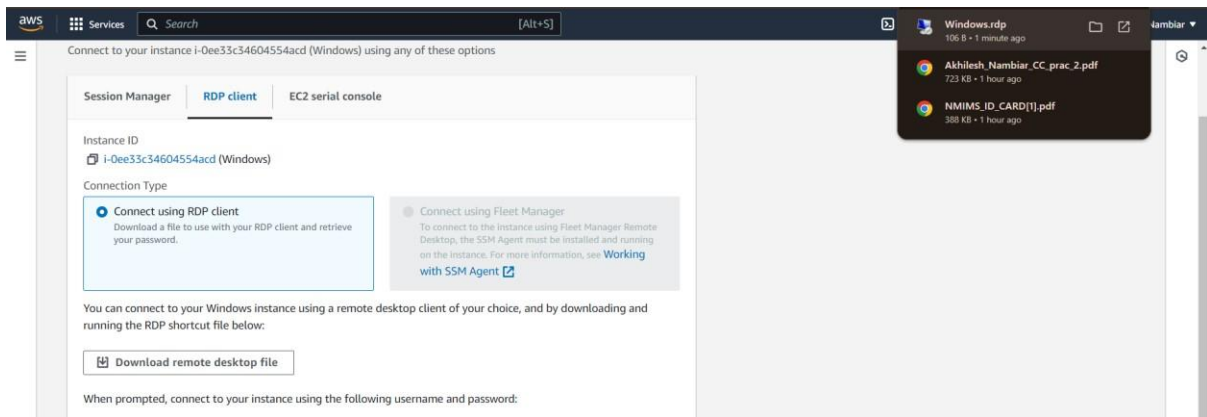




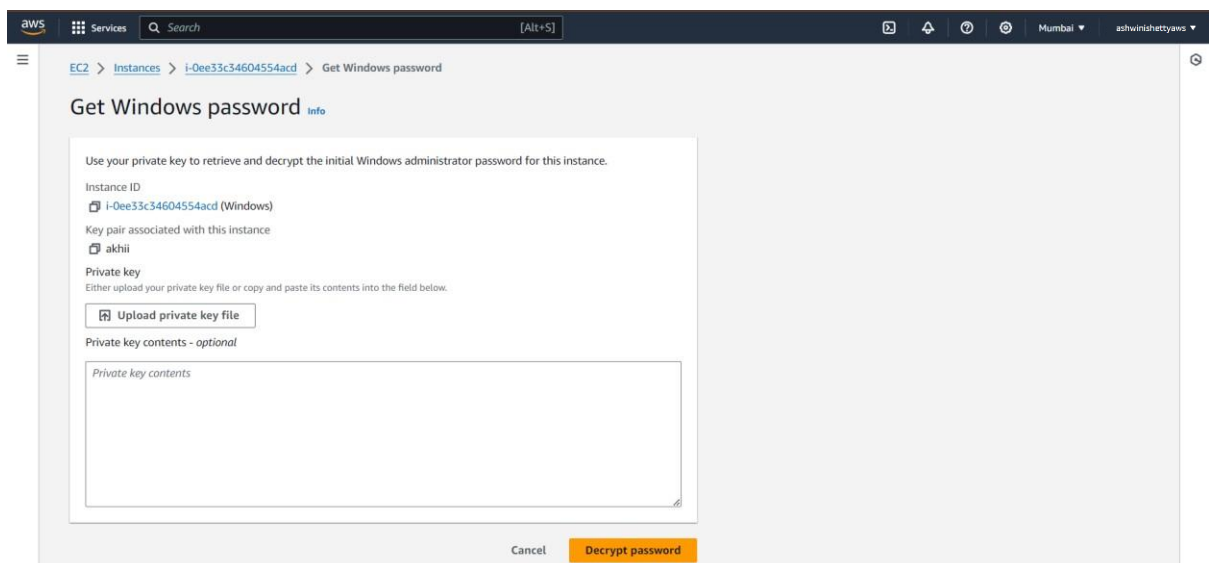
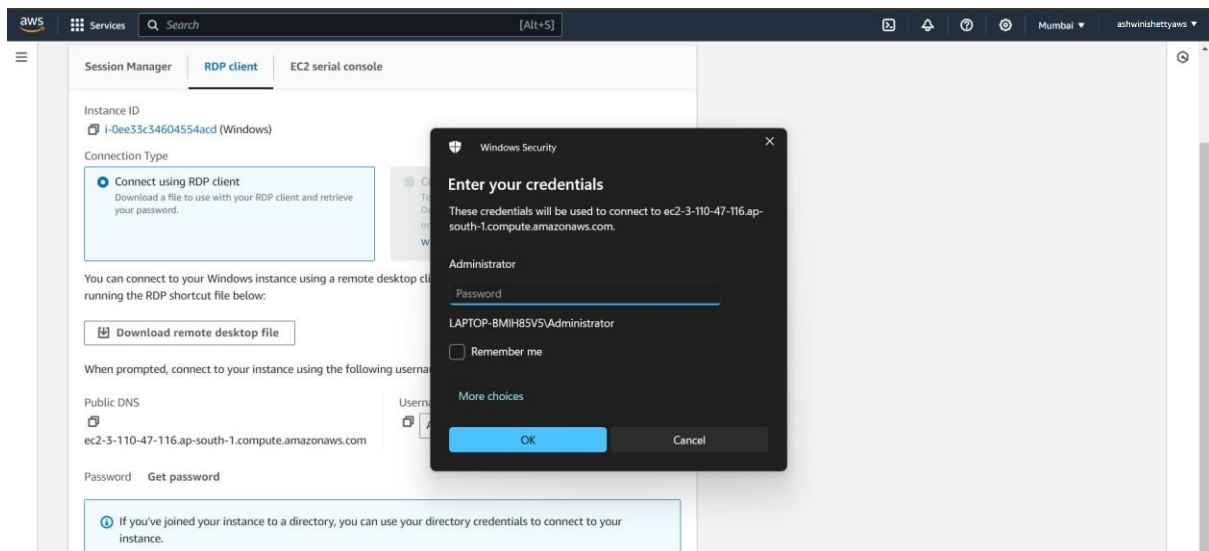
Click on Instance id of windows i.e the instance name created for virtually imputing windows into AWS and then new page opens and click on Connect.



Go to RDP Client and click on download remote desktop.



Go to downloaded windows rdp and click on it iw will ask you the password and in the RDP client you will get Get Password option and click on it.



Here you have to upload your key pair file and then decrypt password and then copy that password and paste it then your virtual desktop will open.

