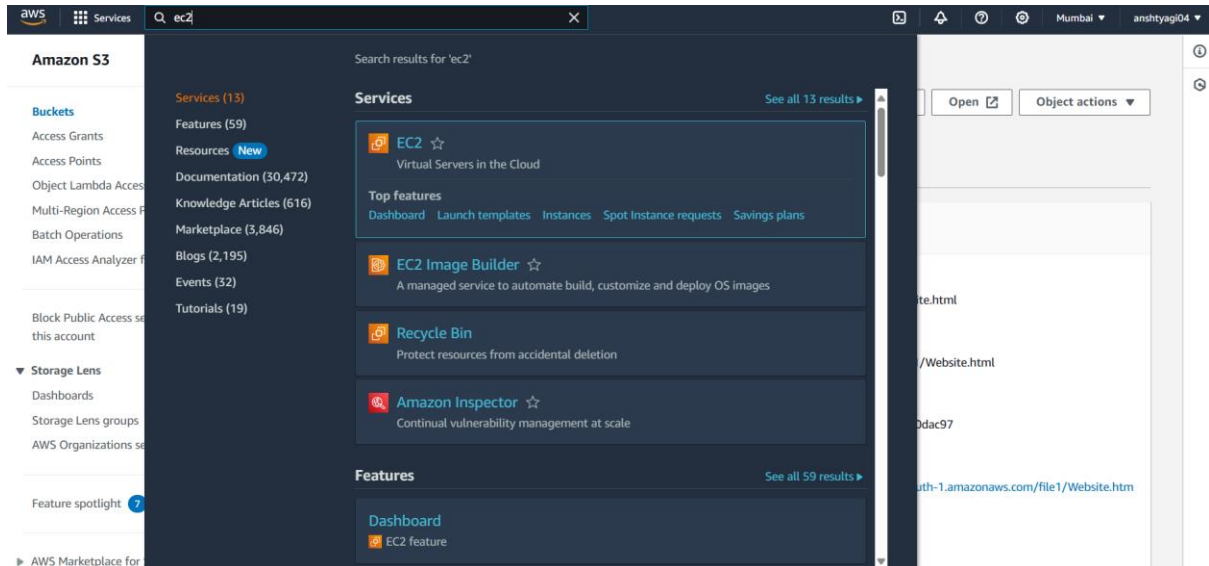
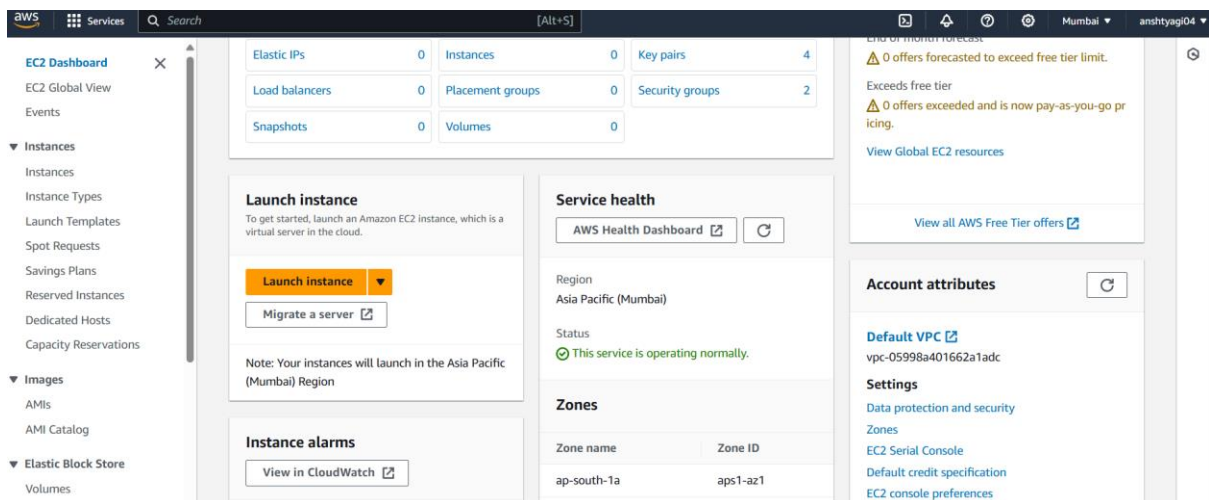


# Launching Instance by Pem

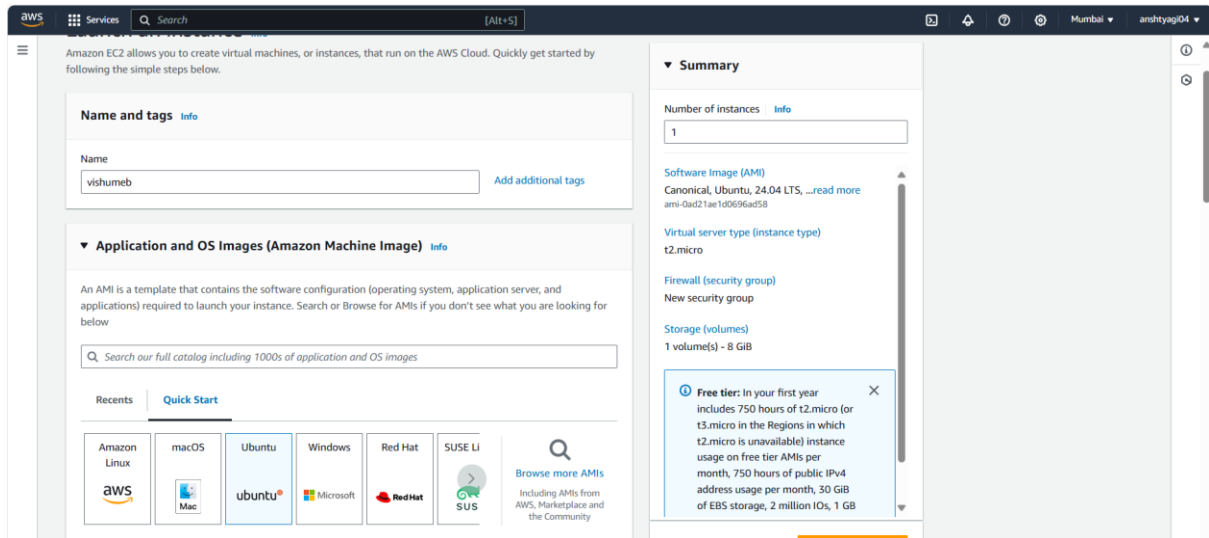
Step 1: Search for EC2 and Click on it.



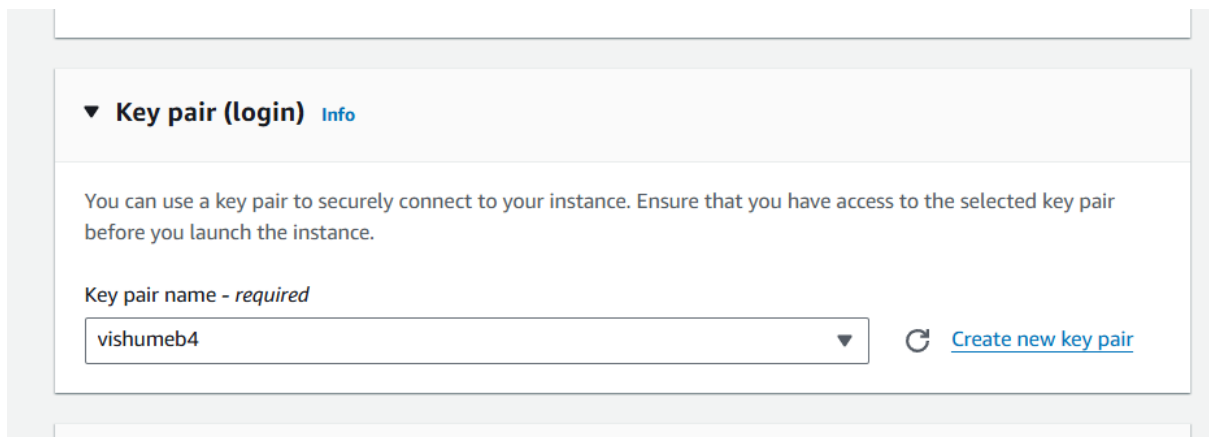
Step 2: Select the Launch Instance In the EC2 dashboard.



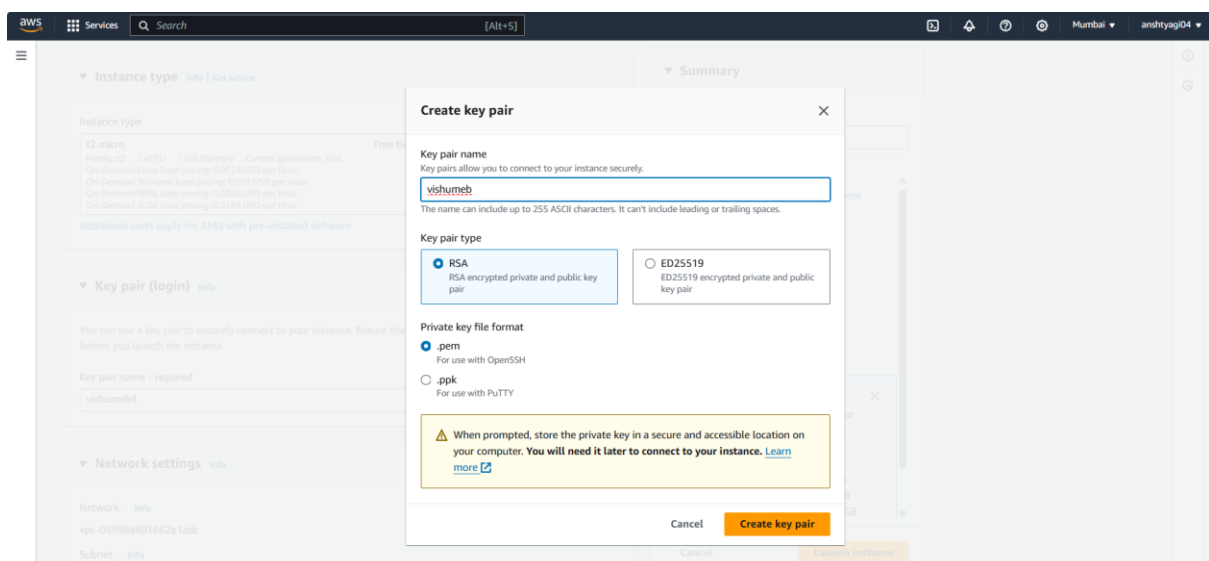
Step 3: Named instance as “vishumeb” and Select ubuntu under Quick start.



Step 4: Give the new pair key as “vishumeb4” and click on Create new pair key.



Step 5: Give the key pair name and select .pem for the key file format and then select on create key pair.



## Step 6: Click on Launch Instance

**Instance type** [Info](#) | [Get advice](#)

Instance type: **t2.micro** Free tier eligible All generations [Compare instance types](#)

Family: t2 - 1 vCPU - 1 GiB Memory - Current generation: true  
On-Demand Linux base pricing: 0.0124 USD per Hour  
On-Demand Windows base pricing: 0.017 USD per Hour  
On-Demand RHEL base pricing: 0.0268 USD per Hour  
On-Demand SUSE base pricing: 0.0124 USD per Hour

[Additional costs apply for AMIs with pre-installed software](#)

**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*  
 [Create new key pair](#)

**Network settings** [Info](#) [Edit](#)

Network: [Info](#)  
vpc-05998a401662a1adc

**Summary**

Number of instances:  [Info](#)

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 I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

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

## Step 7: Instance “vishumeb” is successfully created.

**Instances (1)** [Info](#) [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
<input type="checkbox"/>	vishumeb	i-039b3216f74ee0b0e	Pending	t2.micro	-	<a href="#">View alarms</a>	ap-south-1b	ec2-43-204-217-74.ap-...	43.204.217.74

**Connect to instance** [Info](#)

Connect to your instance i-039b3216f74ee0b0e (vishumeb) using any of these options

**EC2 Instance Connect** [Session Manager](#) [SSH client](#) [EC2 serial console](#)

**Port 22 (SSH) is open to all IPv4 addresses**  
Port 22 (SSH) is currently open to all IPv4 addresses, indicated by 0.0.0.0/0 in the inbound rule in [your security group](#). For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 15.233.177.0/29. [Learn more](#)

Instance ID

Connection Type

☒ **Connect using EC2 Instance Connect**  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ **Connect using EC2 Instance Connect Endpoint**  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

Username  
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

**Note:** In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#) [Connect](#)

Step 8: Click on connect and the Instance is launched.

```
aws Services Q Search [Alt+5] Mumbai anshyag04
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)
+ Documentation: https://help.ubuntu.com
+ Management:   https://landscape.canonical.com
+ Support:      https://ubuntu.com/pro

System information as of Fri Aug 2 13:38:07 UTC 2024

System load: 0.08      Processes:    108
Usage of /:  22.9% of 6.71GB   Users logged in: 1
Memory usage: 20%      IP4 address for enx0: 172.31.7.151
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

Last login: Fri Aug 2 13:35:34 2024 from 13.233.177.3
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-7-151:~$
```

```
ubuntu@ip-172-31-7-151:~$ sudo apt install python-is-python3
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done

The following NEW packages will be installed:
  python-is-python3
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 2684 B of archives.
After this operation, 15.4 kB of additional disk space will be used.
Get:1 http://sg-south-1.elb.archive.ubuntu.com/ubuntu/ubuntu/main amd64 python-is-python3 all 3.11.4-1 [2684 B]
Fetched 2684 B in 0s (132 kB/s)
Selecting previously unselected package python-is-python3.
(Reading database ... 67799 files and directories currently installed.)
Preparing to unpack .../python-is-python3_3.11.4-1_all.deb ...
Unpacking python-is-python3 (3.11.4-1) ...
Setting up python-is-python3 (3.11.4-1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Running locale hooks...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

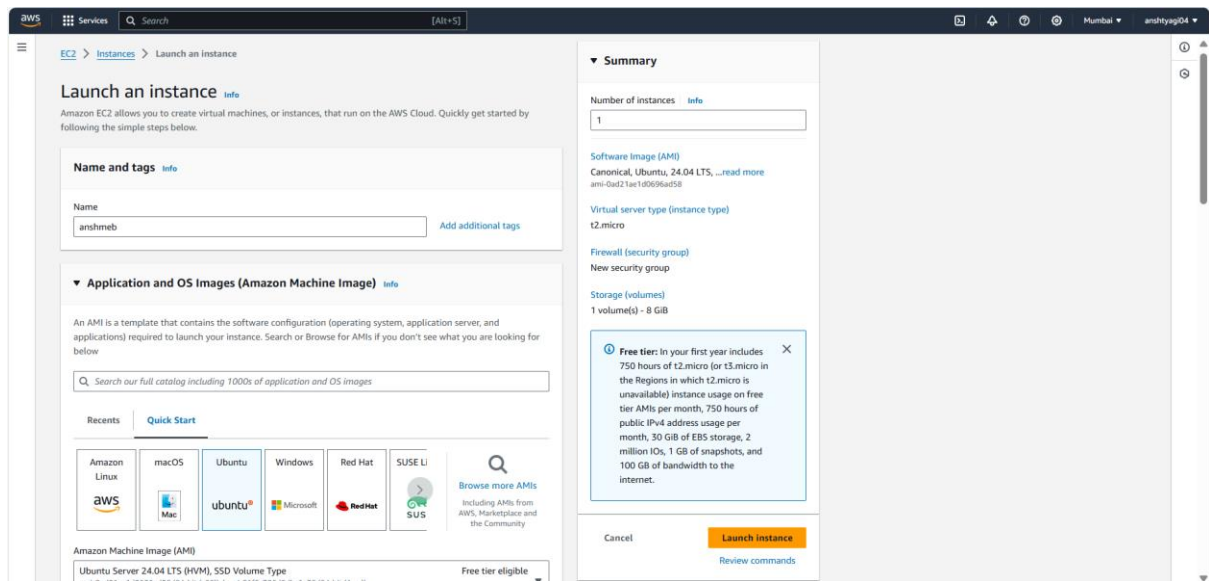
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-7-151:~$ python3
Python 3.12.3 main, Aug 19 2024, 05:39:47) [GCC 13.2.0] on linux
Type "help()", "copyright()", "credits()" or "license()" for more information.
>>>
>>>
```

## Launching instance By Putty

All steps are the same for Putty except some steps:

Step 1: Named instance as “anshmeb” and select create new pair key.



▼ 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*

vishu

▼

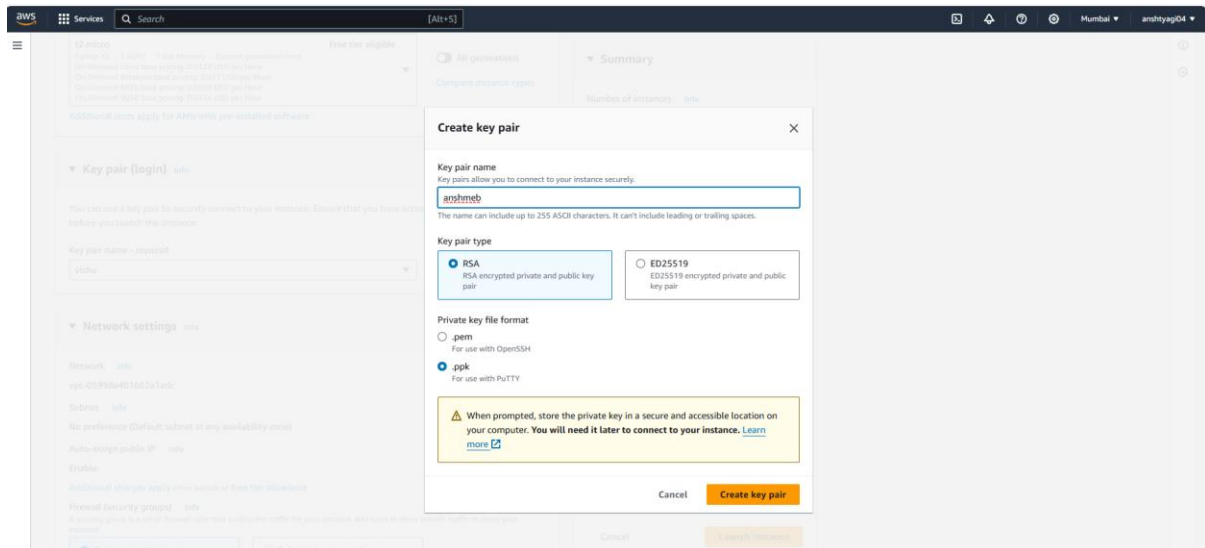
↻

 Create new key pair

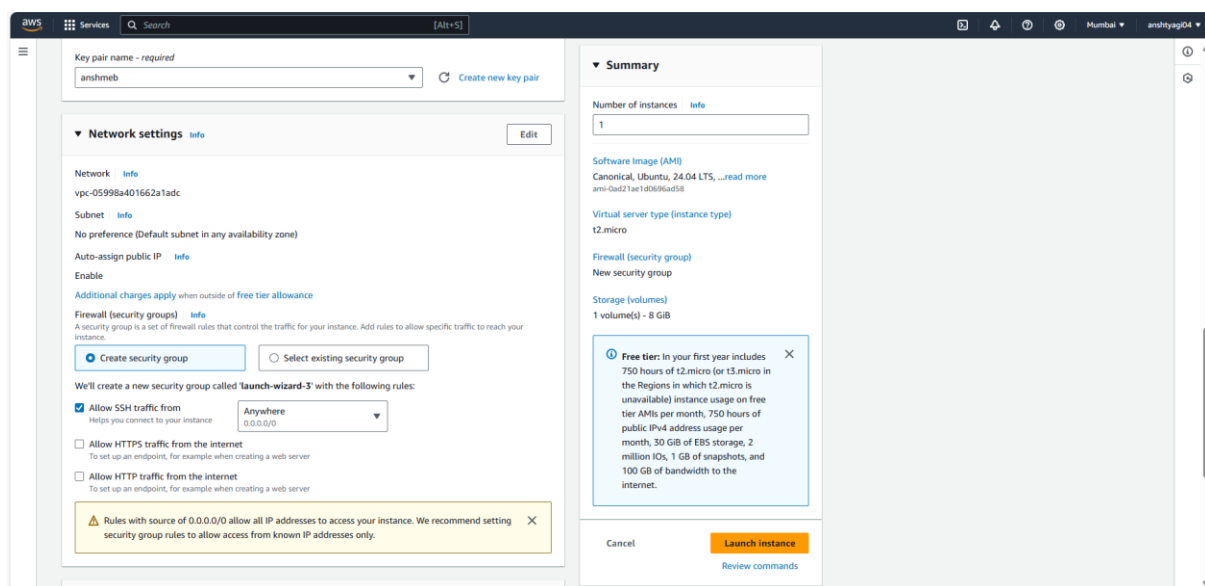
▼ Network settings Info

Edit

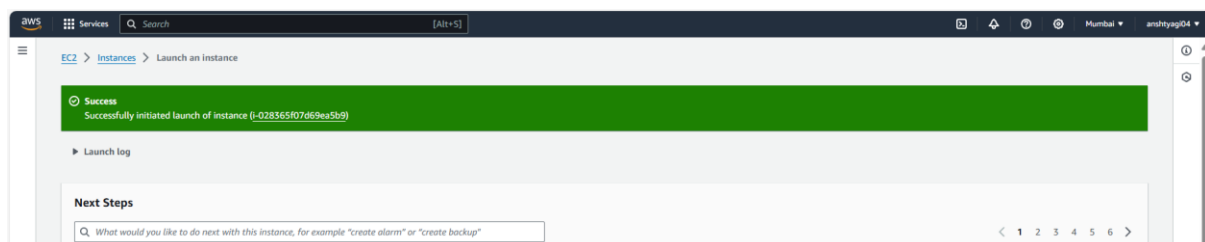
Step 2: Select .putty in Private key file format and then select Create key pair.



Step 3: Click on Launch an instance



Step 4: Instance “anshmeb” initiated successfully.

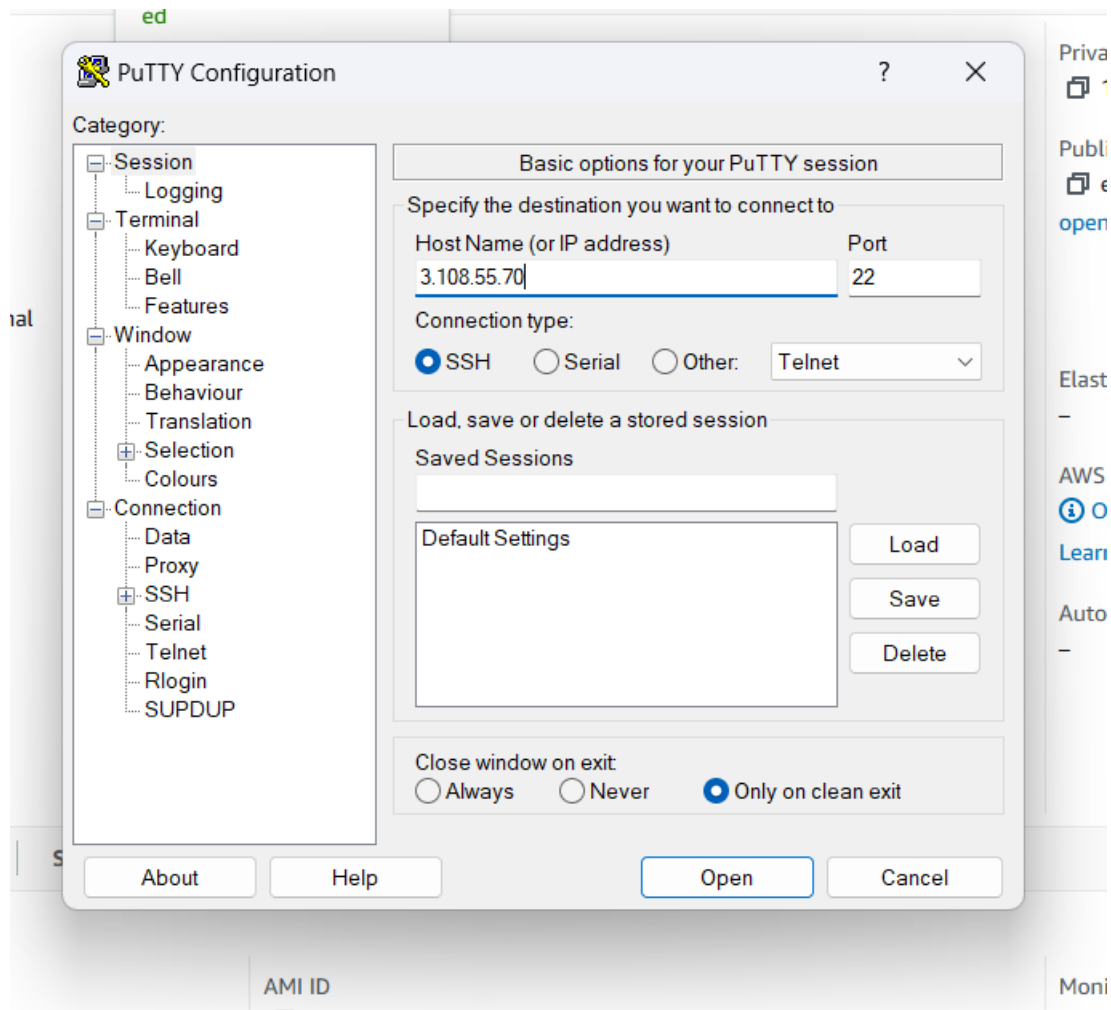


Step 5: Open the instance “anshmeb” and copy the IP address.

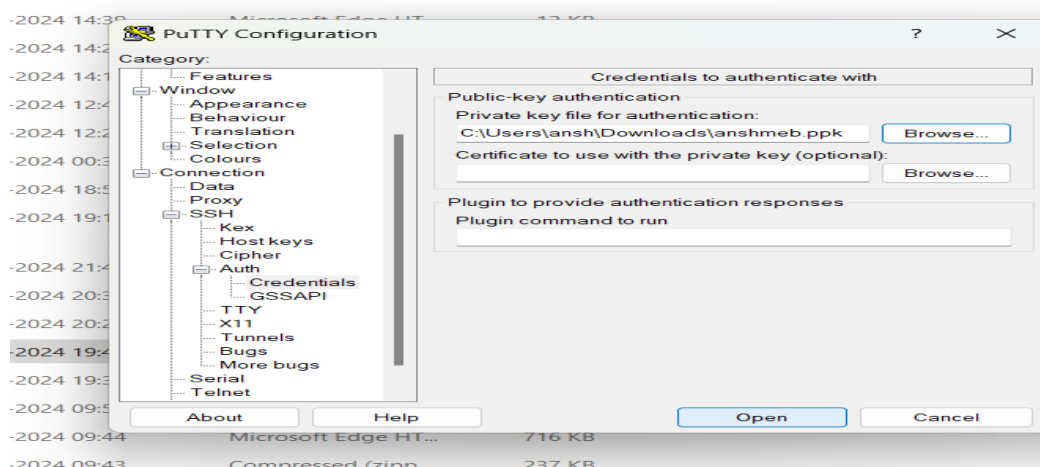
The screenshot displays the AWS Management Console interface for an EC2 instance named 'anshmeb' (ID: i-028365f07d69ea5b9). The instance is in a 'Running' state. The console shows various details organized into sections:

- Instance summary:** Includes the instance ID, public IPv4 address (5.108.55.70), private IPv4 address (172.31.8.190), public IPv4 DNS (ec2-5-108-55-70.ap-south-1.compute.amazonaws.com), private IP DNS name (ip-172-31-8-190.ap-south-1.compute.internal), instance type (t2.micro), VPC ID (vpc-05998a401662a1adc), subnet ID (subnet-0395303432a12545a), and instance ARN.
- Details:** Shows the platform (Ubuntu (Inferred)), platform details (Linux/UNIX), AMI ID (ami-0ad21ae1d0696ad58), and AMI name.
- Status and alarms:** Monitoring is disabled, and termination protection is disabled.

Step 6: To launch an instance by putty, we have to install the putty software and paste the IP address in the Hostname.

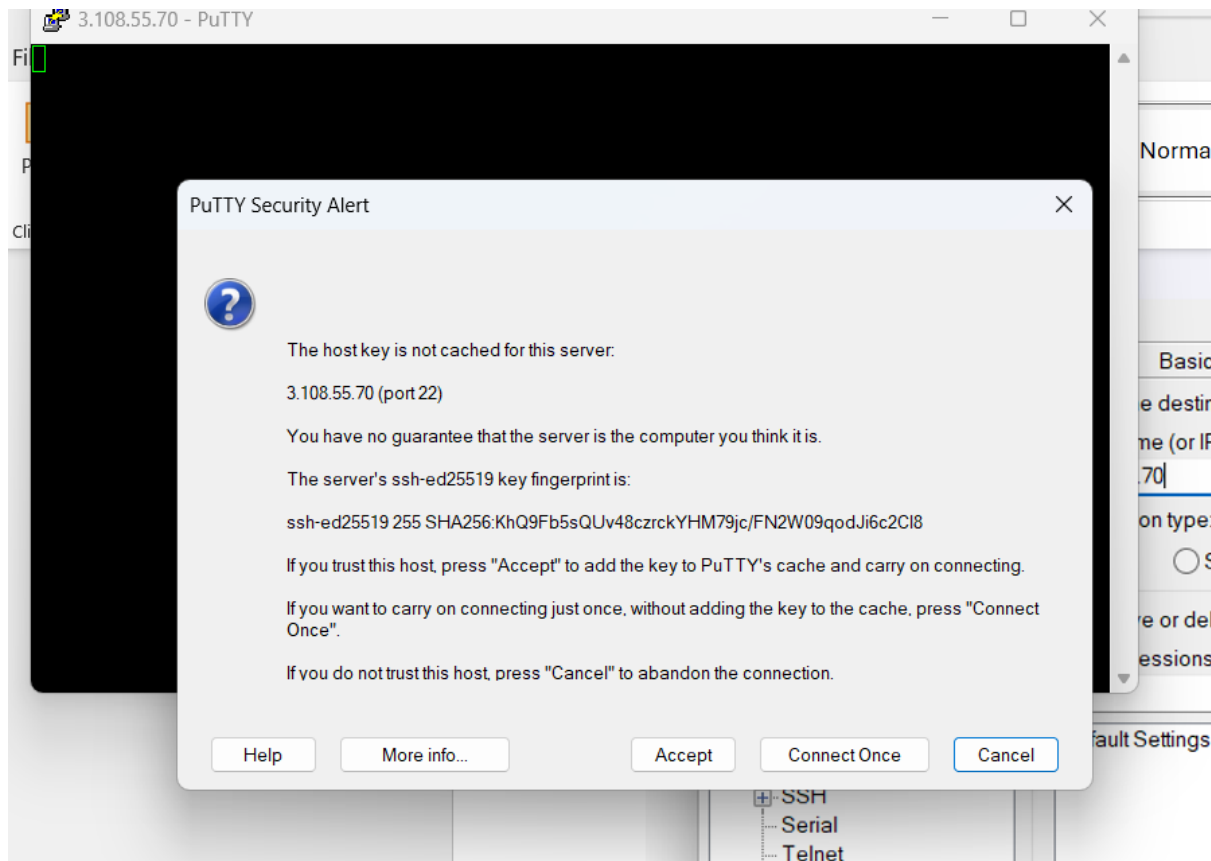


Step 7: Go to SSH > Auth > Credentials and open the “anshmeb.ppk” file



Step 8: Click on Connect once





Step 9: Instance “anshmeb” created successfully.

