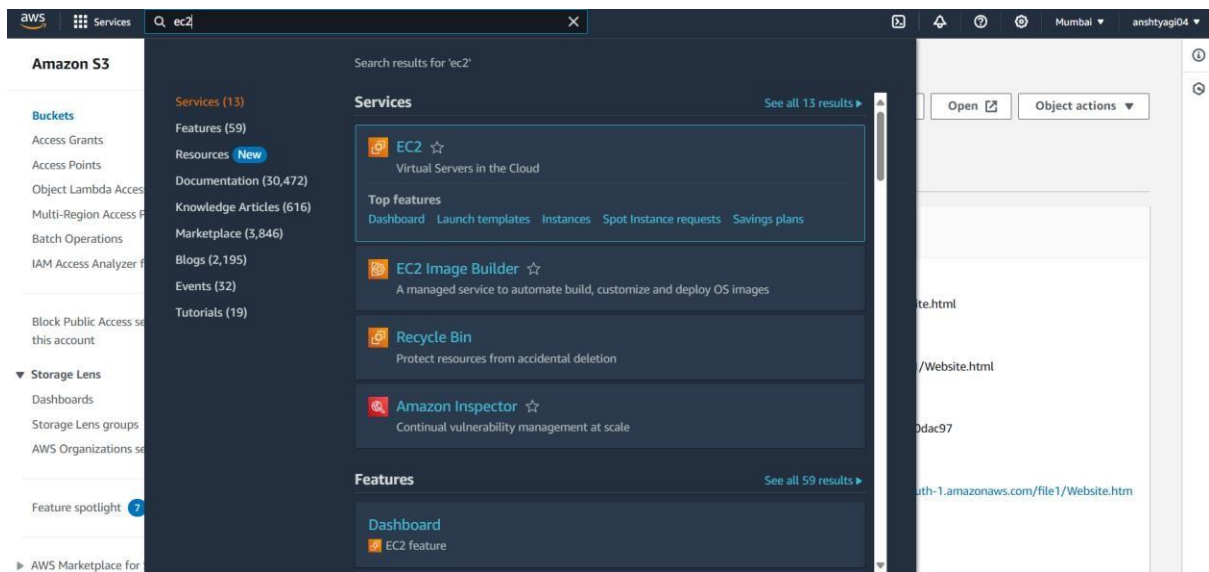


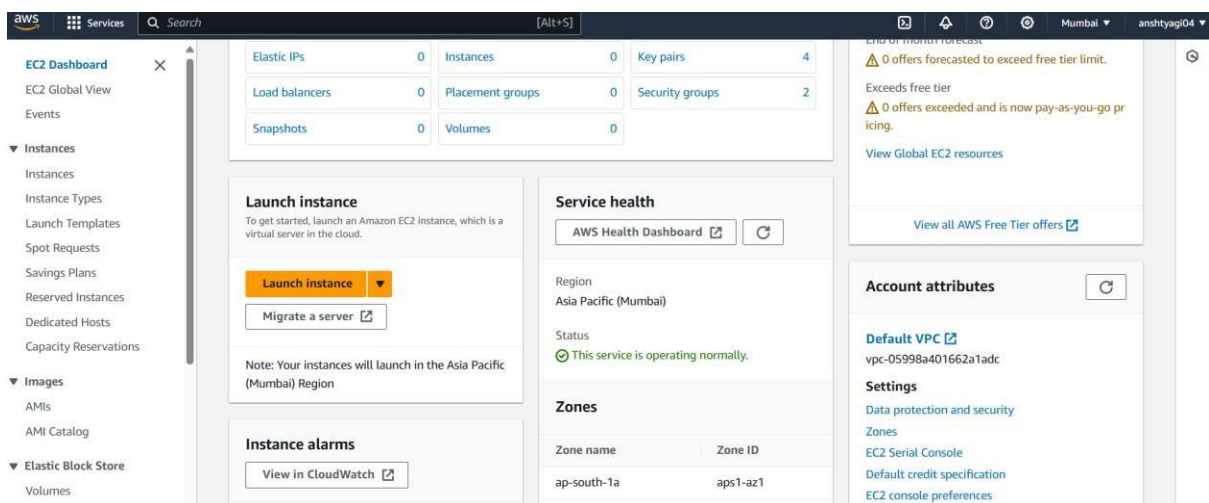
Himanshu Pal
A045
86062300021

Launching Instance by Pem

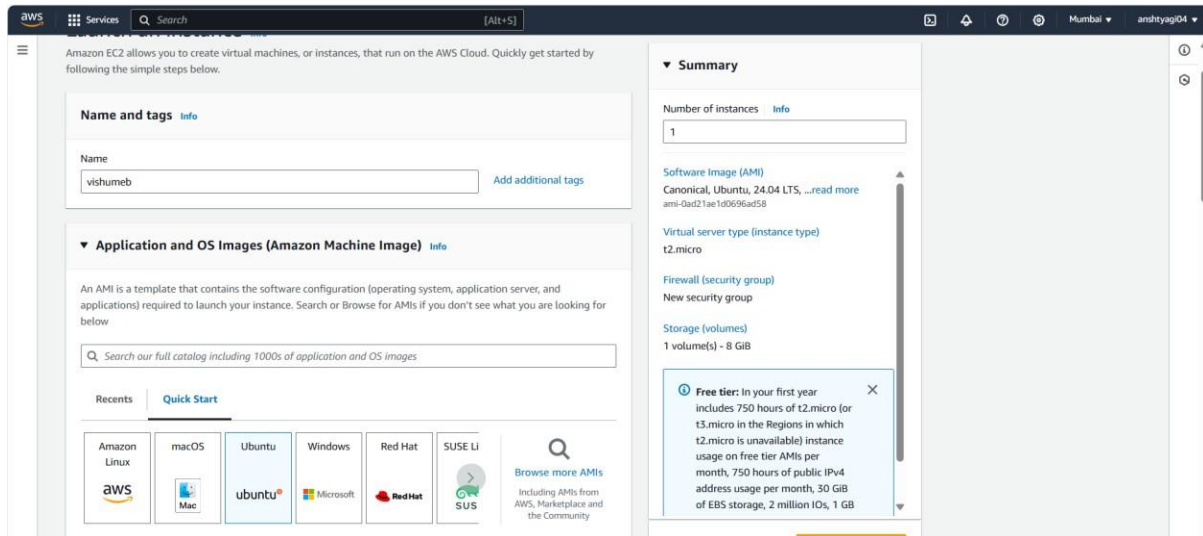
Step 1: Search for EC2 and Click on it.



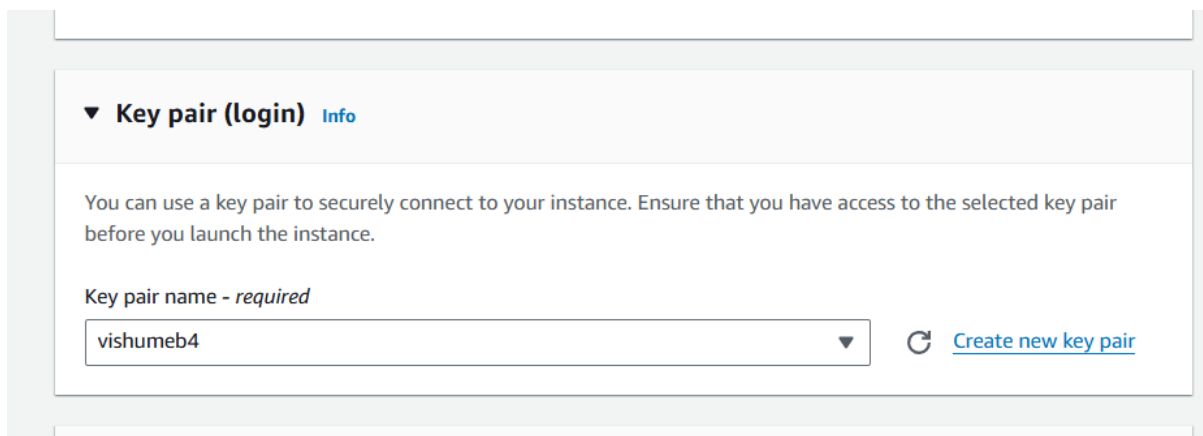
Step 2: Select the Launch Instance In the EC2 dashboard.



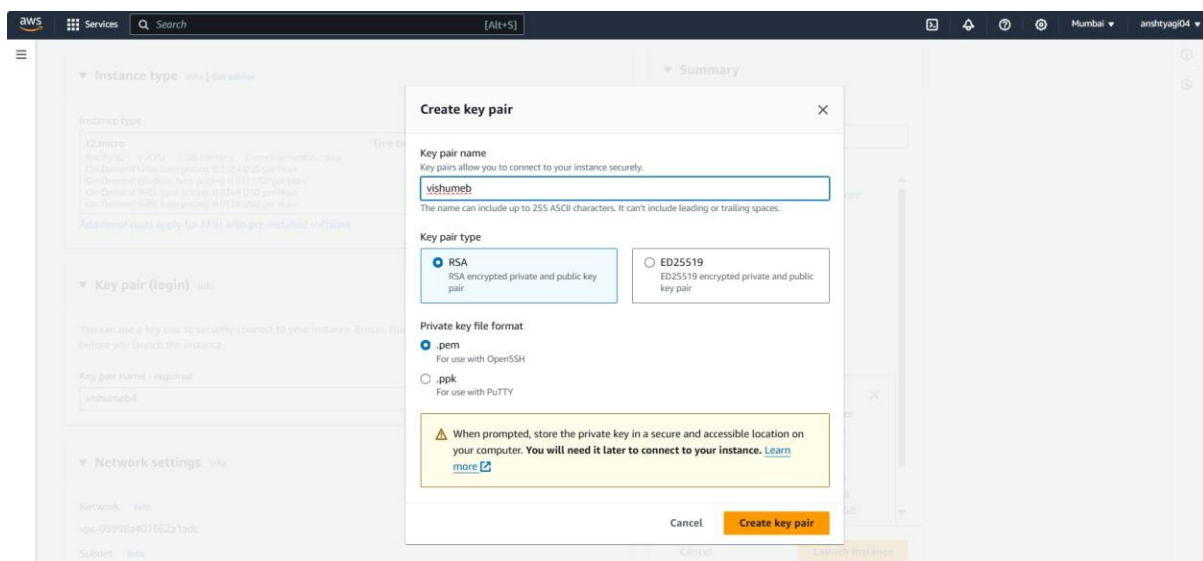
Step 3: Named instance as “vishumb” and Select ubuntu under Quick start.



Step 4: Give the new pair key as “vishumb4” 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) 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: **vishumeb** Create new key pair

Network settings Info Edit

Network: **vpc-05998a401662a1adc**

Summary

Number of instances: 1

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 GiB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch Instance Review commands

Step 7: Instance “vishumeb” is successfully created.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
vishumeb	i-039b3216f74ee0b0e	Pending	t2.micro	-	View alarms	ap-south-1b	ec2-43-204-217-74.ap-...	43.204

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: 13.235.177.0/29. [Learn more](#)

Instance ID: **i-039b3216f74ee0b0e (vishumeb)**

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: **43.204.217.74**

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+S]
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%      IPv4 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
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Unable to locate package python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Unable to locate package python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Unable to locate package python-is-python3
ubuntu@ip-172-31-43-186:~$ 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://ap-south-1.amazonaws.com/ubuntu/ubuntu noble/main amd64 python-is-python3 all 3.11.4-0 [2684 B]
debconf: unable to initialize frontend: Dialog
debconf: falling back to frontend: Readline
Unpacking python-is-python3 (3.11.4-0) ...
Setting up python-is-python3 (3.11.4-0) ...
Running triggers for man-db (2.12.0-4ubuntu1) ...
Running locale setup...

Running locale seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

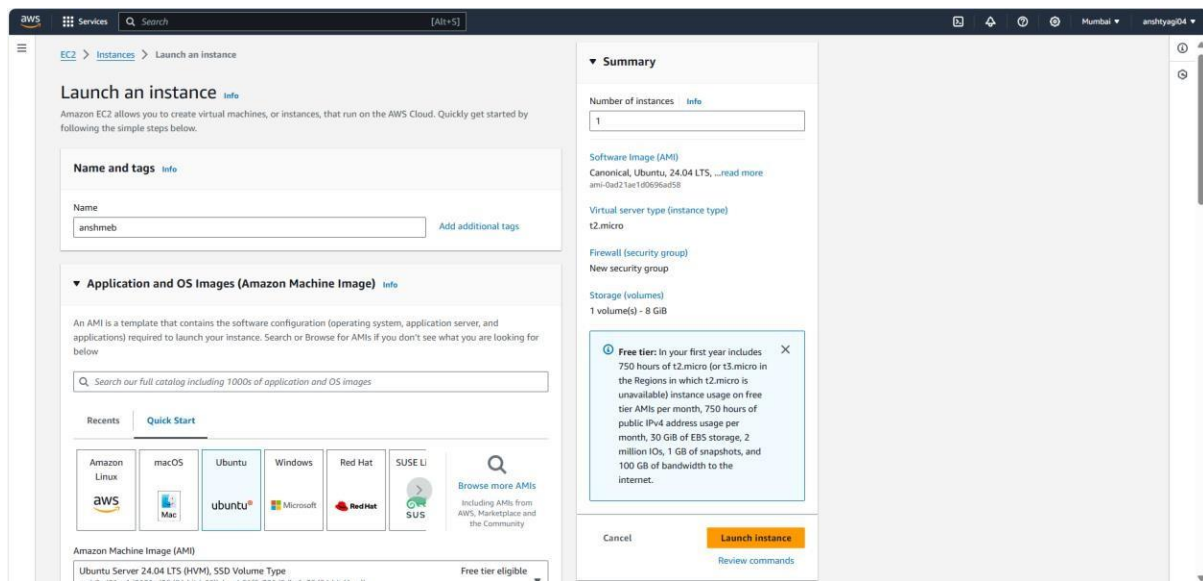
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-186:~$ python3
Python 3.12.5 Shell, Apr 29 2024, 05:59:47 [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

▼

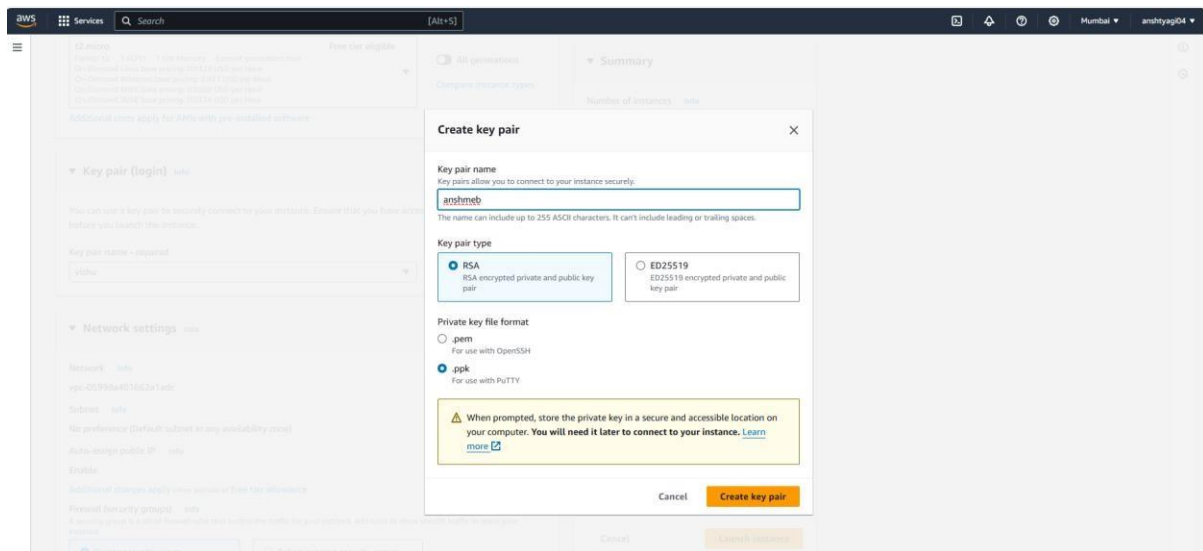
↻

 Create new key pair

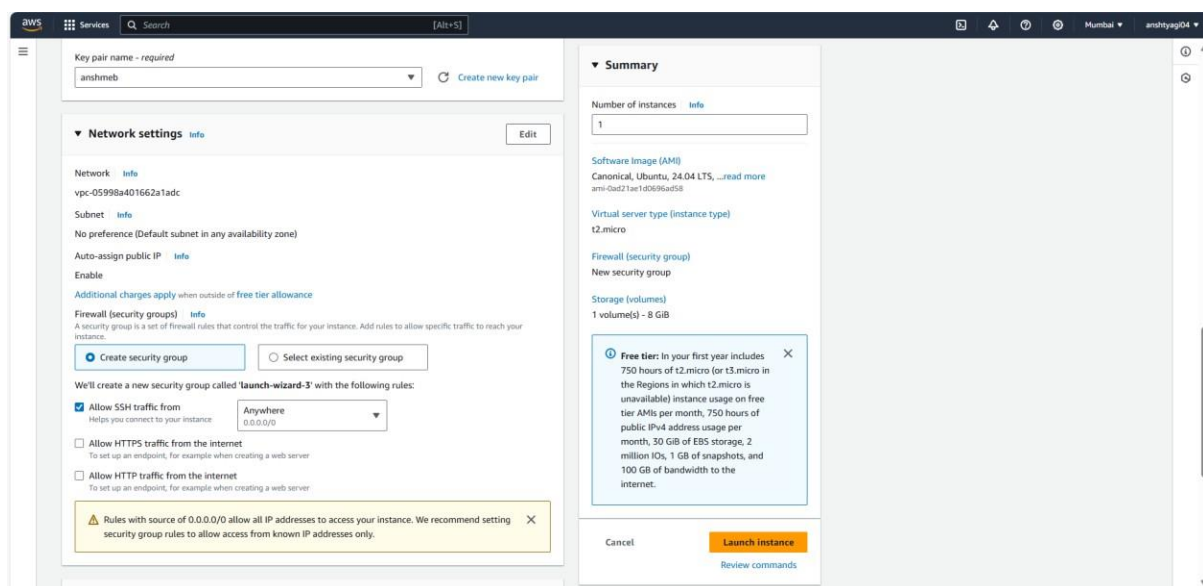
▼ Network settings Info

Edit

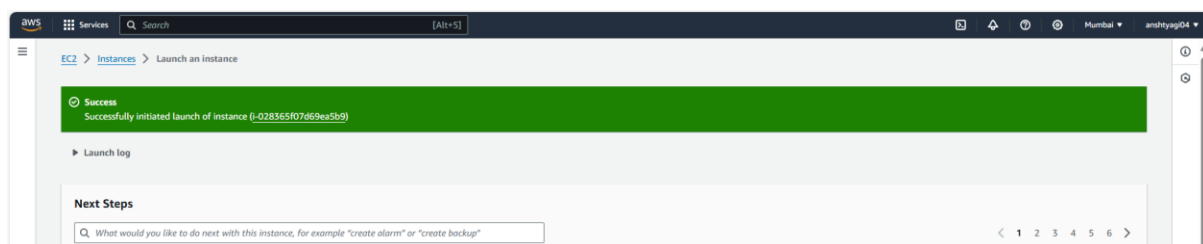
Step 2: Select .putty in Private key file format and then select Create key pair.



Step 3: Click on Launch an instance



Step 4: Instance “anshmeb” initiated successfully.



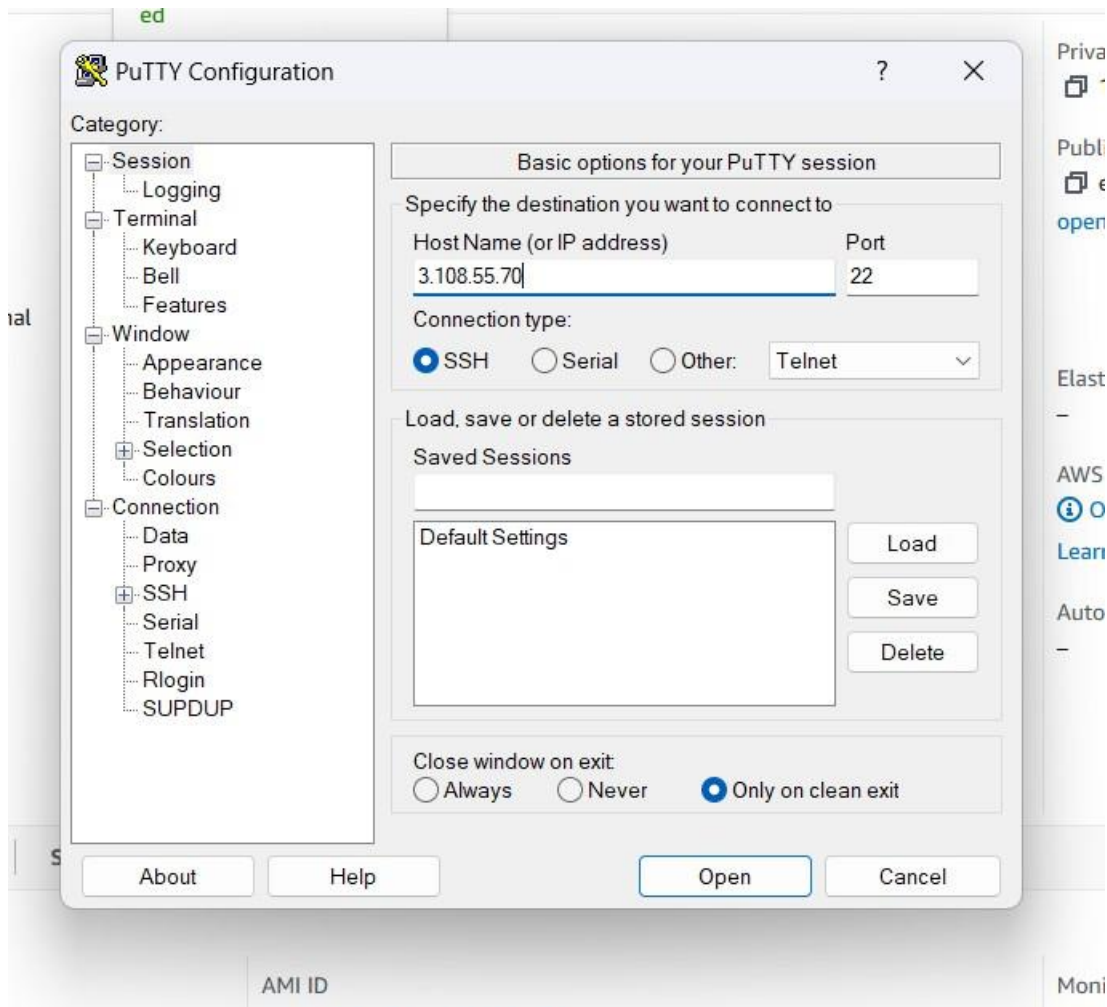
Step 5: Open the instance “anshmeb” and copy the IP address.

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 configuration details organized into sections:

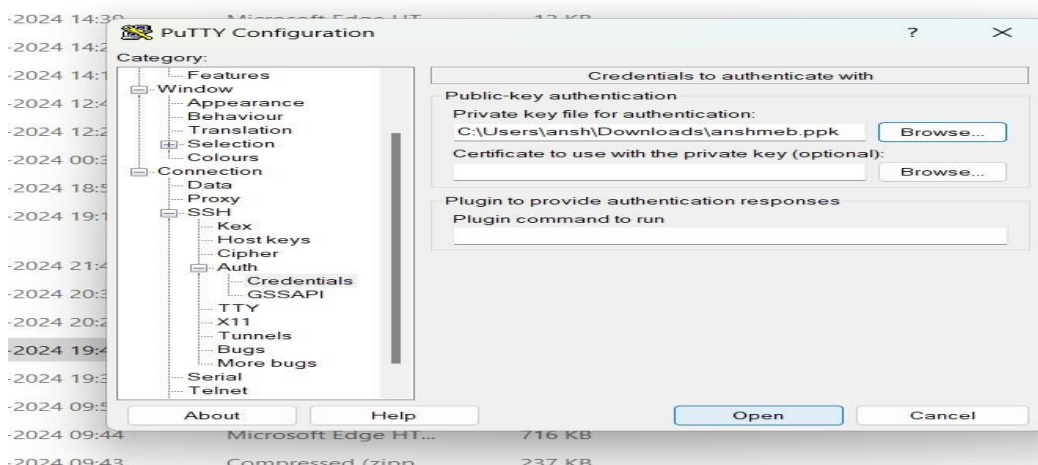
- Instance summary:** Includes the instance ID, public IPv4 address (5.108.55.70), private IPv4 address (172.31.8.190), public IPv4 DNS, private IP DNS name, instance type (t2.micro), VPC ID, subnet ID, and instance ARN.
- Instance details:** Shows the platform (Ubuntu), platform details (Linux/UNIX), AMI ID (ami-0ad21ae1d0696ad58), and AMI name.
- Monitoring:** Indicates that monitoring is disabled and termination protection is also disabled.

The left sidebar contains navigation links for various AWS services, including EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, and Network Interfaces.

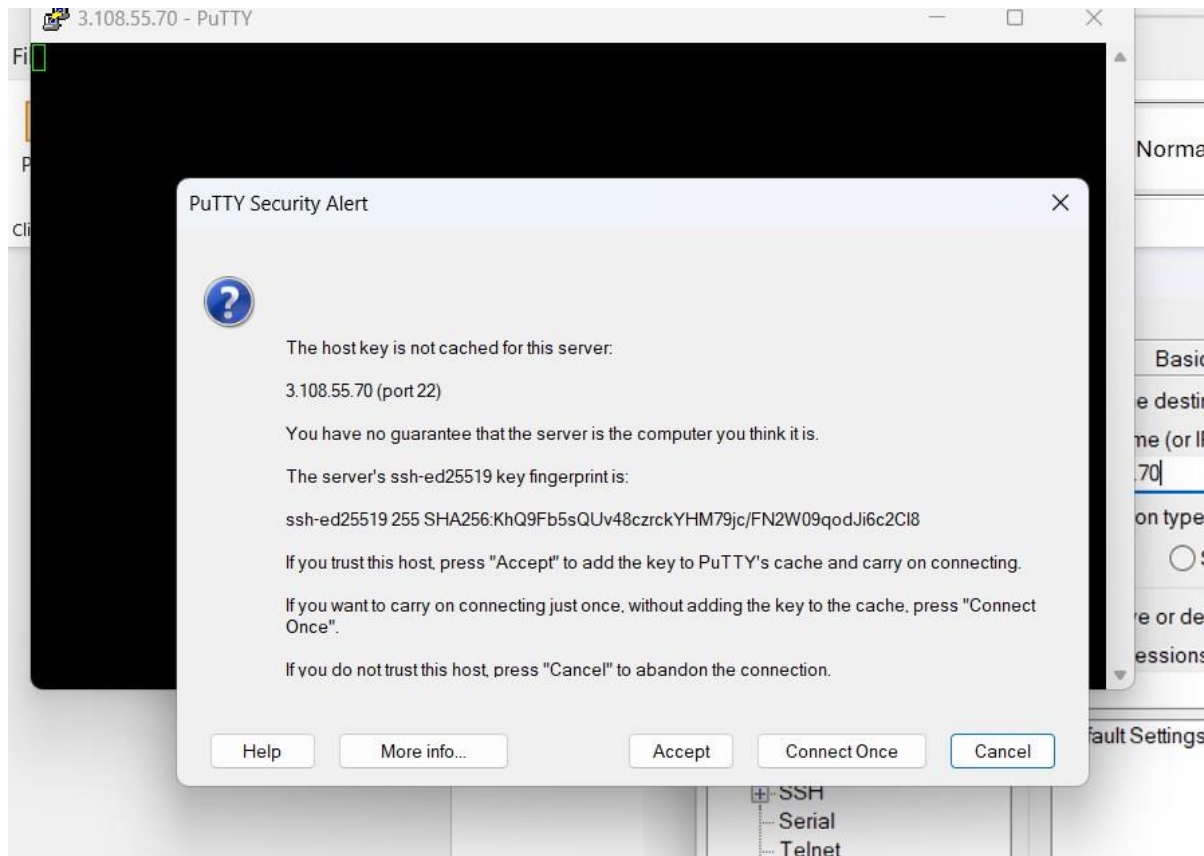
Step 6: To launch an instance by putty, we have to install the putty software and paste the IP address in the Hostname.



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.

