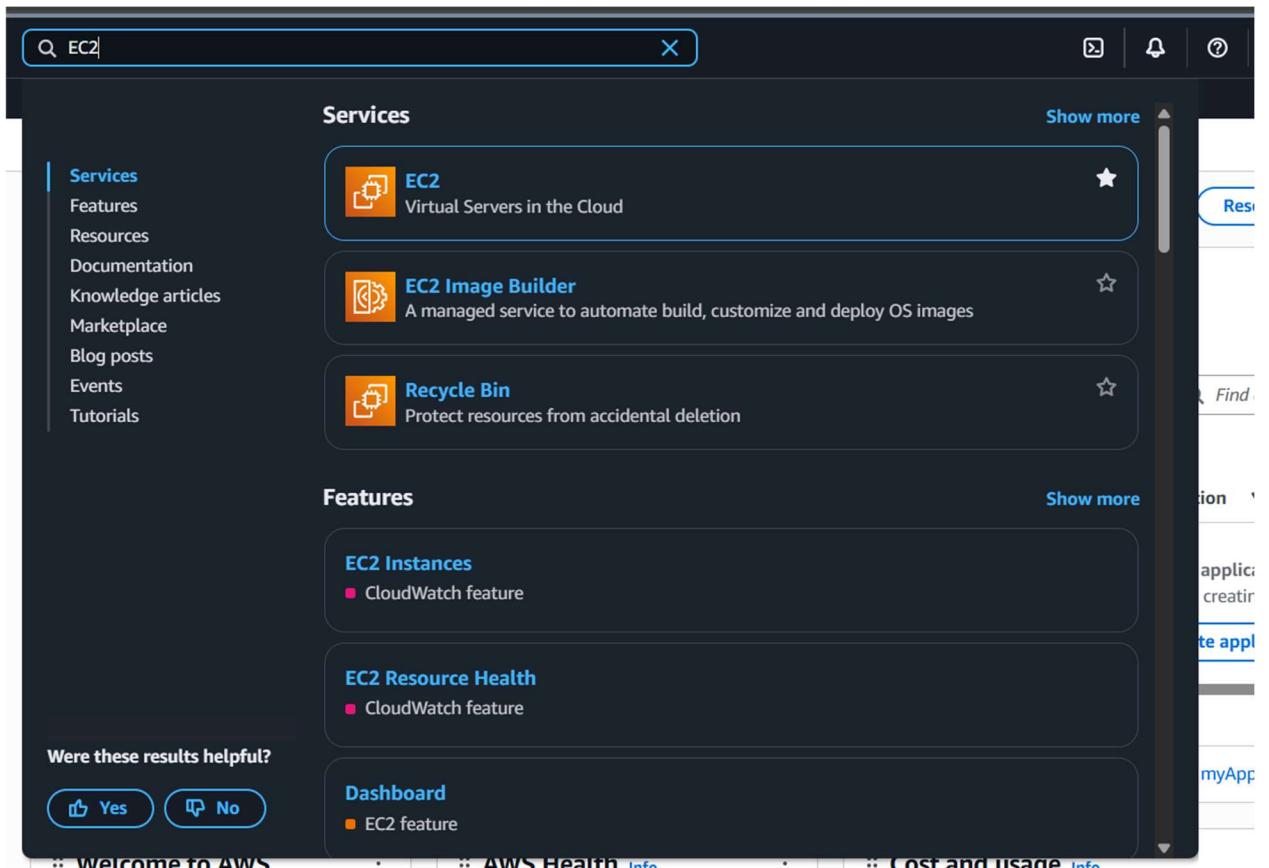
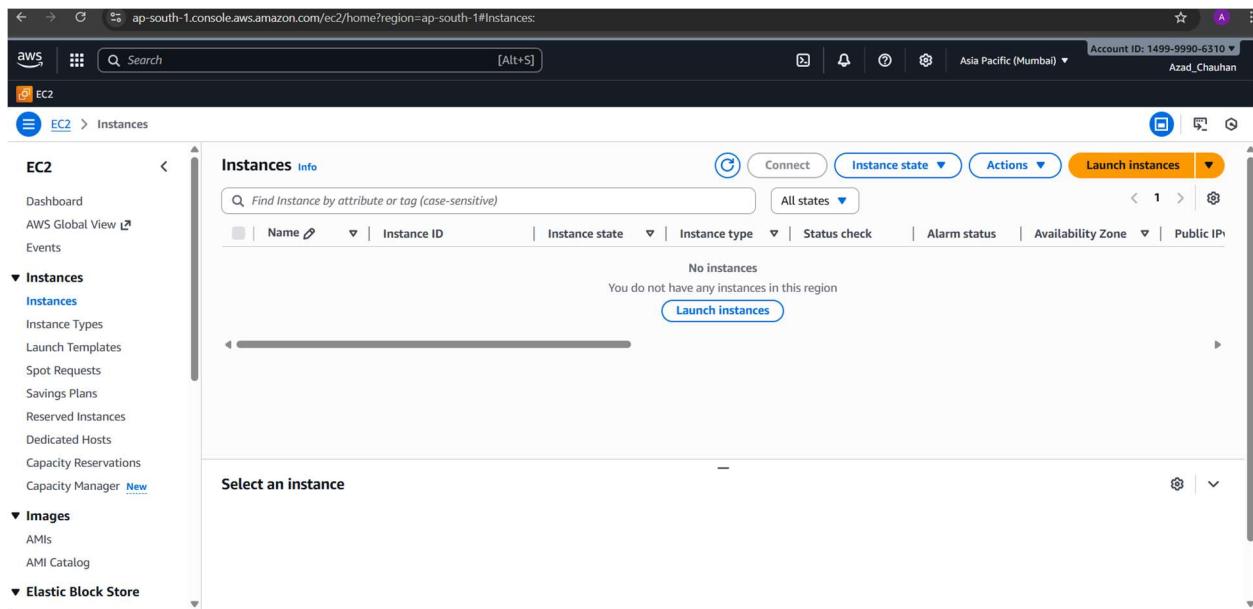


How to Create a Virtual machine in AWS

- 1) First Login to your AWS Account
- 2) Search EC2 (Elastic Compute Cloud) In Search Box



- 3) Then Open it
- 4) Go to Instance and Click



5) Click On Launch Instance

6) Give The Name of Instance FirstVM(As you Want)

7) Then open a New page where you able to select your OS Image (Amazon Machine Image) Section

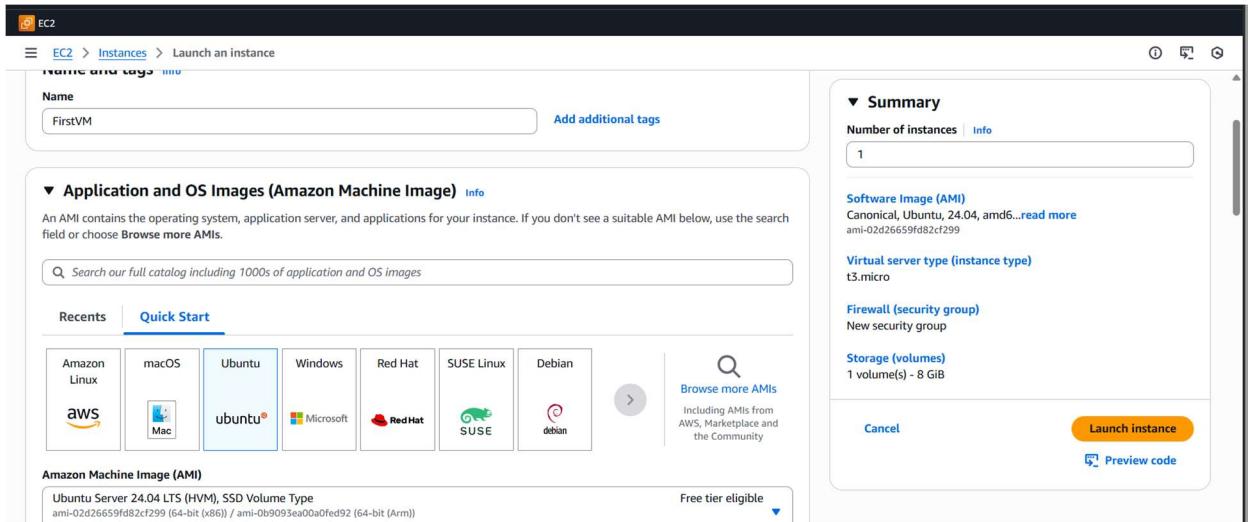
8) And choose your OS(Operating System)

For Me I select **Ubuntu Linux**

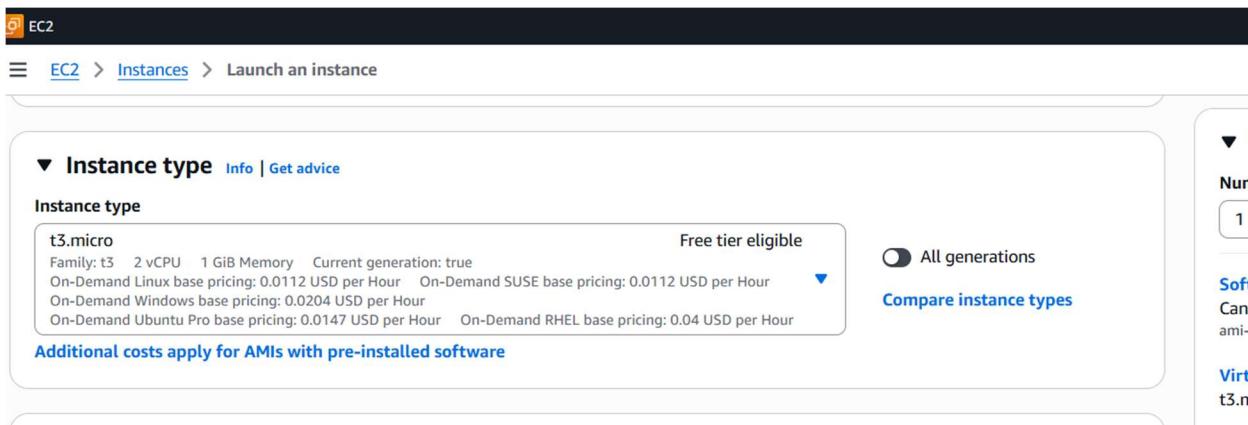
9) Go to Amazon **Machine Image (AMI)**

Select OS

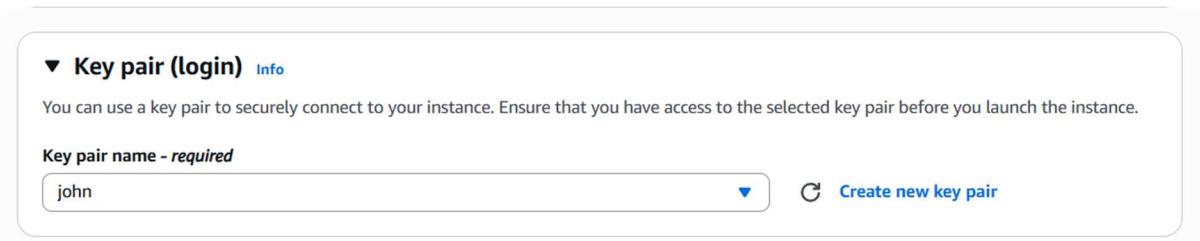
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10) Then We Select Instance Type



11) After Select Instance Type We have to Create New key Pair



12) Then We Go To Network Setting

→ Allow [Allow RDP traffic from, Allow HTTPS traffic from the internet, Allow HTTP traffic from the internet]

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The screenshot shows the AWS EC2 'Launch an instance' wizard. On the left, under 'Network settings', there are sections for Network (Info), Subnet (Info), Auto-assign public IP (Info), and Firewall (security groups) (Info). It shows a new security group named 'launch-wizard-5' with three rules: Allow SSH traffic from Anywhere (0.0.0.0/0), Allow HTTPS traffic from the internet (To set up an endpoint, for example when creating a web server), and Allow HTTP traffic from the internet (To set up an endpoint, for example when creating a web server). A note at the bottom says: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.' On the right, the 'Summary' section shows: Number of instances (1), Software Image (AMI) (Canonical, Ubuntu, 24.04, amd64), Virtual server type (instance type) (t3.micro), Firewall (security group) (New security group), and Storage (volumes) (1 volume(s) - 8 GiB). At the bottom are 'Cancel', 'Launch instance', and 'Preview code' buttons.

12) Then Configure The Storage

The screenshot shows the 'Configure storage' step of the EC2 wizard. It shows one volume (8 GiB gp3) assigned to the root volume. An 'Add new volume' button is available. A note states: 'The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance.' Below this, there's a section for Data Lifecycle Manager policies with a 'Click refresh to view backup information' link. The 'Storage (volumes)' section on the right shows 1 volume(s) - 8 GiB. At the bottom are 'Cancel', 'Launch instance', and 'Preview code' buttons.

13) Click on Launch Instance

After Successfully Create a Instance ,We see This Type of Windows.

The screenshot shows the success message: 'Successfully initiated launch of instance (i-0bd3cb1a044e48d13)'. Below it is a 'Launch log' button. The 'Next Steps' section asks: 'What would you like to do next with this instance. for example "create alarm" or "create backup"'.

14) Again we go to the Instance and We see our Virtual Machine (FirstVM) That we are created

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The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with 'EC2' selected. Under 'Instances', 'Instances' is also selected. The main area shows a table with one row for 'FirstVM'. The columns include Name (FirstVM), Instance ID (i-0bd3cb1a044e48d13), Instance state (Running), Instance type (t3.micro), Status check (3/3 checks passed), Alarm status (View alarms), Availability Zone (ap-south-1b), and Public IP (ec2-13-201-186-236.ap-south-1.compute.amazonaws.com). A search bar at the top says 'Find Instance by attribute or tag (case-sensitive)'. Buttons for 'Connect', 'Actions', and 'Launch instances' are at the top right.

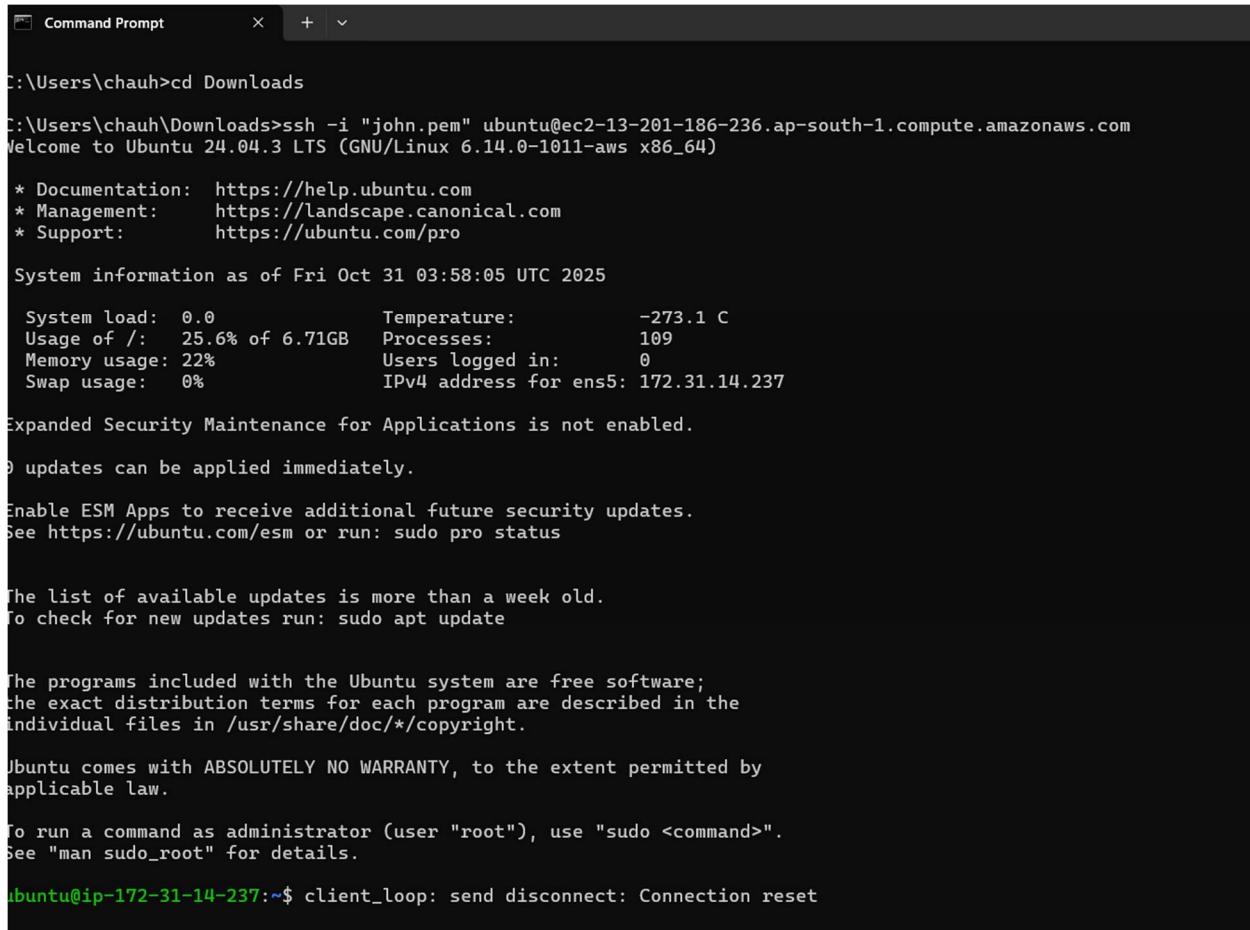
15) We select Instance(VM) and Click on Connect

The screenshot shows the 'Connect' page for the instance i-0bd3cb1a044e48d13. The top navigation bar includes 'Search' and 'Region: Asia Pacific (Mumbai)'. The main content has tabs for 'EC2 Instance Connect', 'Session Manager', 'SSH client' (which is selected), and 'EC2 serial console'. Under 'SSH client', it shows the instance ID 'i-0bd3cb1a044e48d13 (FirstVM)' and a numbered list of steps to connect via SSH. Step 1: Open an SSH client. Step 2: Locate your private key file. Step 3: Run the command 'chmod 400 "john.pem"'. Step 4: Connect to your instance using its Public DNS: 'ec2-13-201-186-236.ap-south-1.compute.amazonaws.com'. Below this is an 'Example:' section with the command 'ssh -i "john.pem" ubuntu@ec2-13-201-186-236.ap-south-1.compute.amazonaws.com'. A note at the bottom says 'Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' A 'Cancel' button is at the bottom right.

16) Select Instance > Connect > SSH Client > Copy path

Then Open CMD >Change your Directory(Where your key pair file is stored, supposed my key pair is stored in download folder so I run **cd Downloads**) > Paste the ssh path

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```
C:\Users\chauh>cd Downloads

C:\Users\chauh\Downloads>ssh -i "john.pem" ubuntu@ec2-13-201-186-236.ap-south-1.compute.amazonaws.com
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1011-aws x86_64)

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

System information as of Fri Oct 31 03:58:05 UTC 2025

System load: 0.0 Temperature: -273.1 C
Usage of /: 25.6% of 6.71GB Processes: 109
Memory usage: 22% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 172.31.14.237

Expanded Security Maintenance for Applications is not enabled.

9 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-172-31-14-237:~$ client_loop: send disconnect: Connection reset
```

Here are you able to perform your task and host web application