

# Week-1 Cloud Environment Setup

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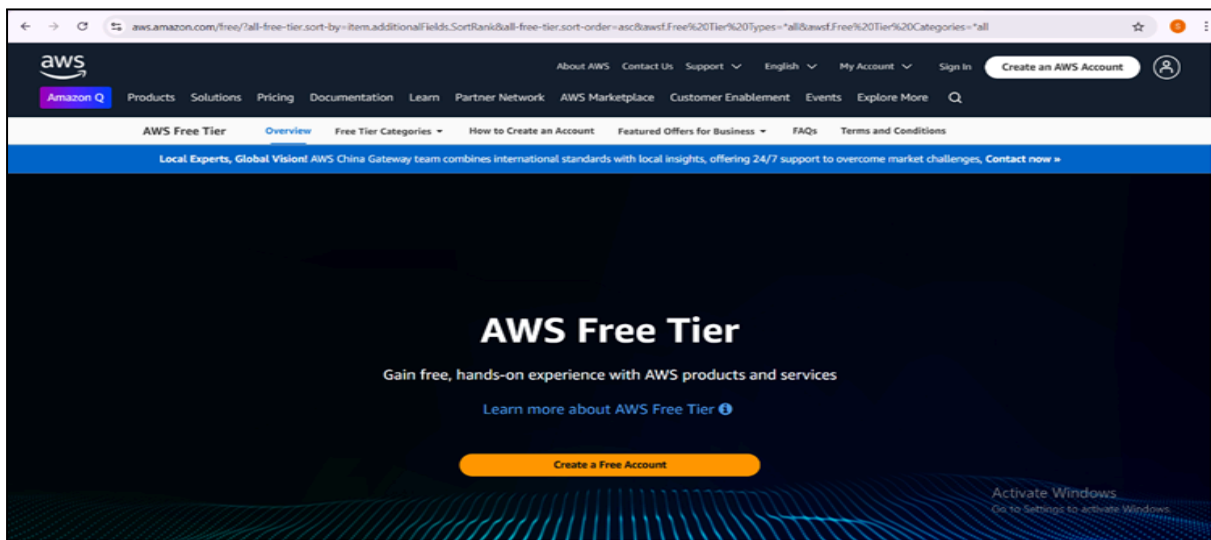
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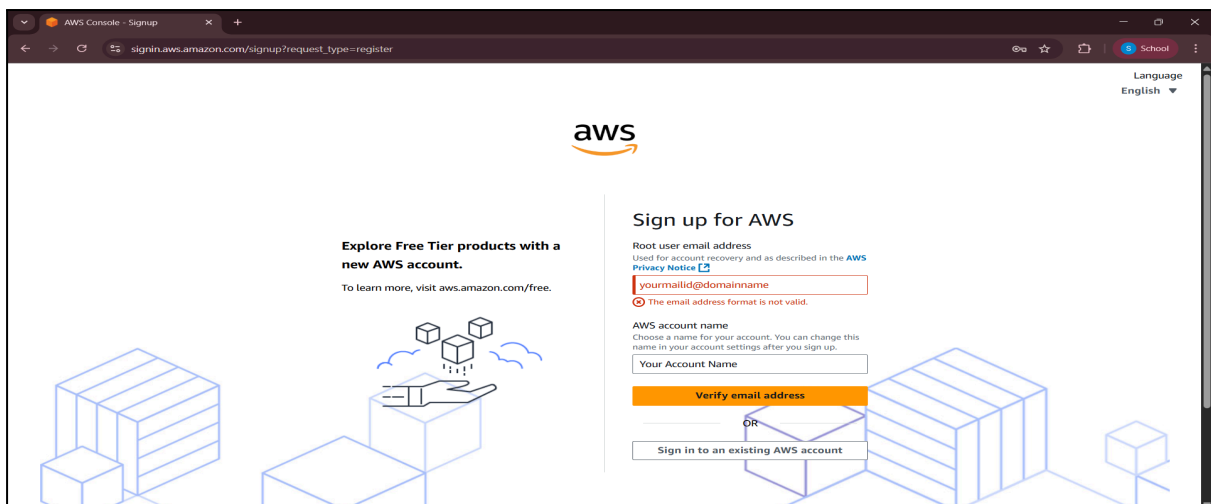
- Task-**
- 1) Create an AWS Free Tier or GCP account.
  - 2) Launch EC2/Compute Engine instance.

## Steps to Create an AWS Free Tier Account-

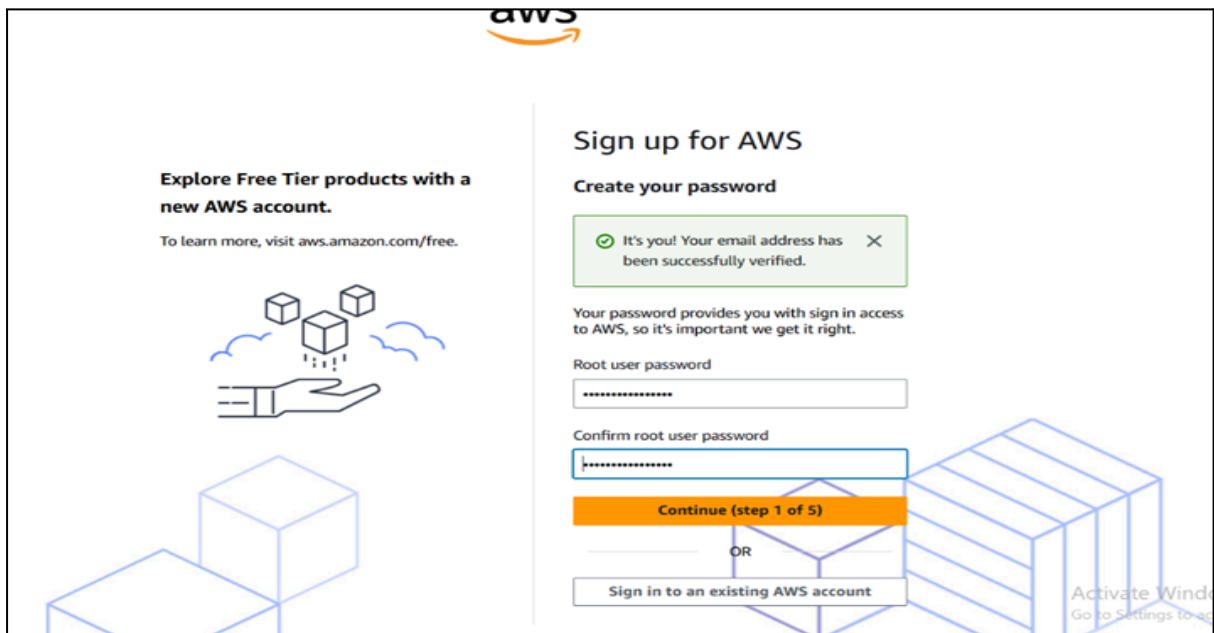
- 1) AWS Free Tier Account Creation.
- 2) Visit: <https://aws.amazon.com/free>



- 3) Created a personal AWS Account.

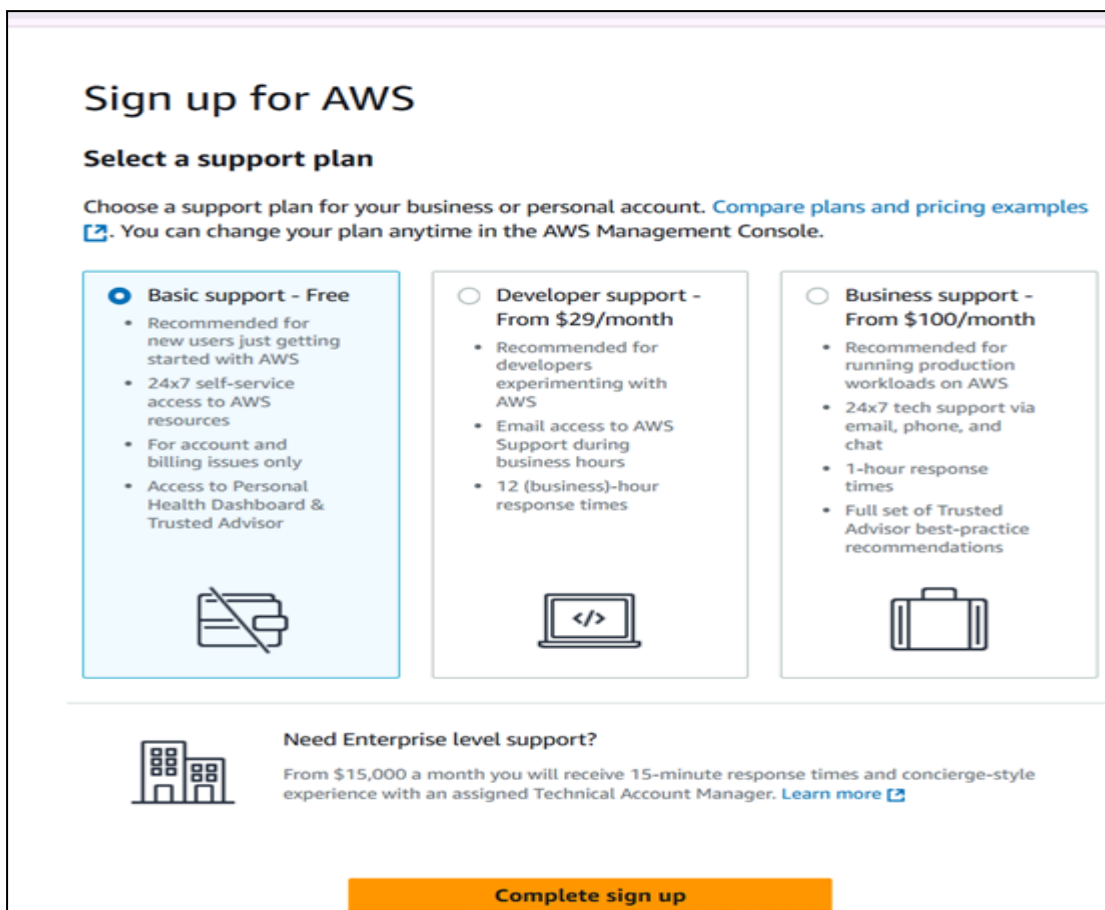


4) Entered Email, Password, and billing details (₹2 Verification).



The screenshot shows the AWS sign-up interface. On the left, there's a section titled "Explore Free Tier products with a new AWS account." with a link to [aws.amazon.com/free](https://aws.amazon.com/free). The main heading is "Sign up for AWS". Below it, the sub-heading is "Create your password". A green success message states: "It's you! Your email address has been successfully verified." Below this, a note says: "Your password provides you with sign in access to AWS, so it's important we get it right." There are two input fields: "Root user password" and "Confirm root user password", both containing masked text. An orange button labeled "Continue (step 1 of 5)" is below the fields. Below the button is an "OR" separator and a link "Sign in to an existing AWS account". On the right side, there's a faint watermark of a server rack and a Windows logo with the text "Activate Windows Go to Settings to activate Windows".

5) Select Basic Support - Free Plan.

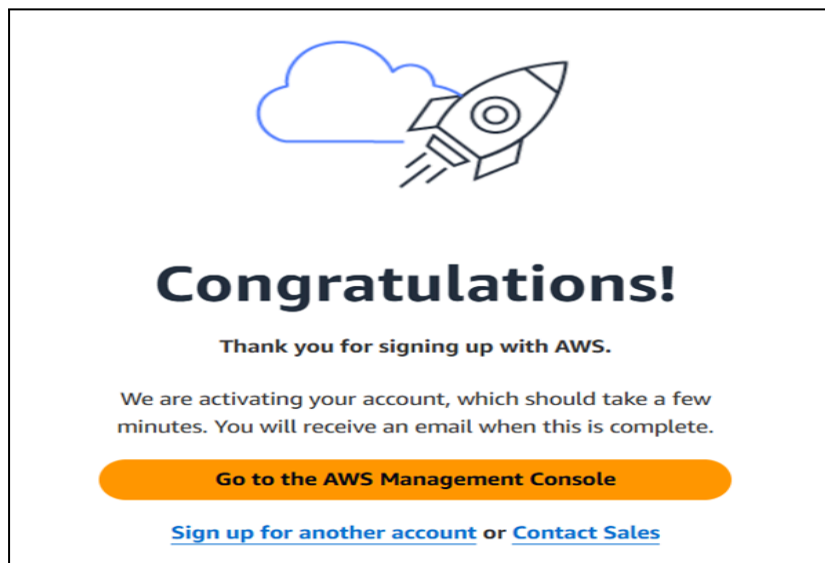


The screenshot shows the AWS sign-up interface for selecting a support plan. The heading is "Sign up for AWS" and the sub-heading is "Select a support plan". Below this, a note says: "Choose a support plan for your business or personal account. [Compare plans and pricing examples](#). You can change your plan anytime in the AWS Management Console." There are three plan options, each with a radio button and a list of features:

- Basic support - Free** (Selected):
  - Recommended for new users just getting started with AWS
  - 24x7 self-service access to AWS resources
  - For account and billing issues only
  - Access to Personal Health Dashboard & Trusted Advisor
- Developer support - From \$29/month**:
  - Recommended for developers experimenting with AWS
  - Email access to AWS Support during business hours
  - 12 (business)-hour response times
- Business support - From \$100/month**:
  - Recommended for running production workloads on AWS
  - 24x7 tech support via email, phone, and chat
  - 1-hour response times
  - Full set of Trusted Advisor best-practice recommendations

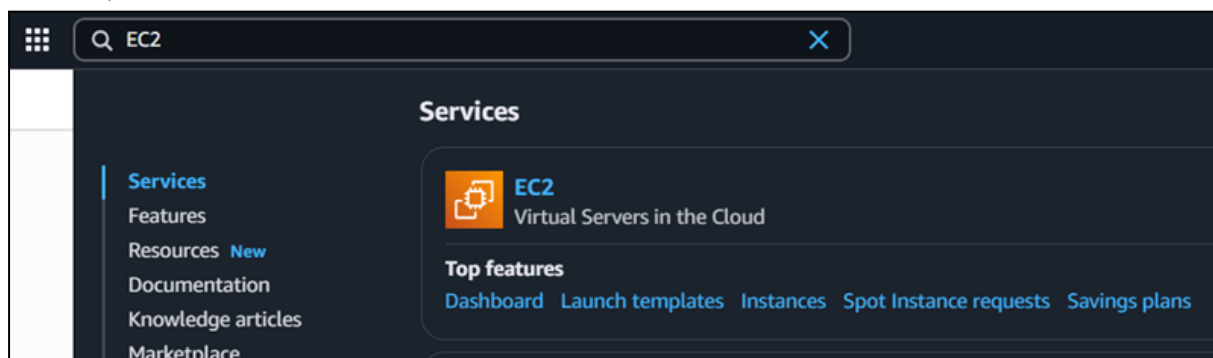
Below the plans, there's a section titled "Need Enterprise level support?" with a building icon. It says: "From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)". At the bottom, there's an orange button labeled "Complete sign up".

6) Entered Email, Password, and billing details (₹2 Verification).

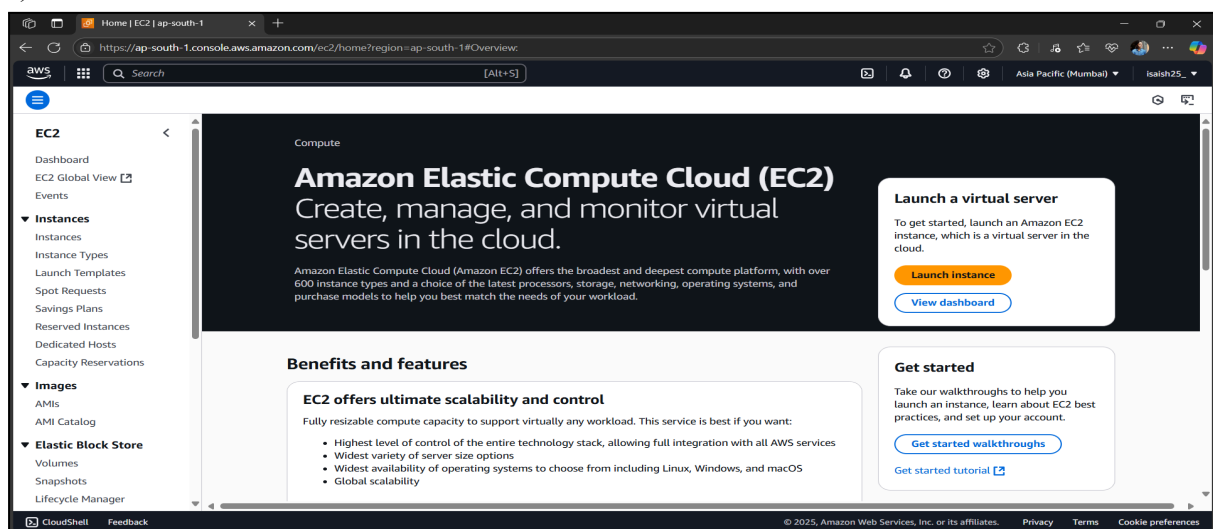


### Steps to Launch EC2 Instance on AWS-

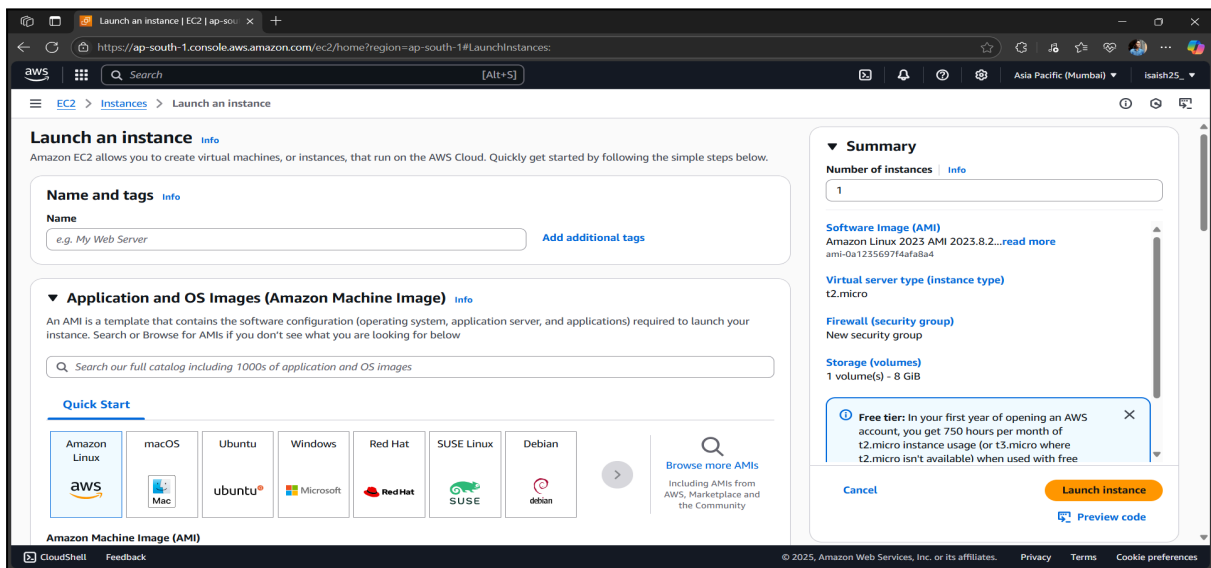
- 1) Log in to the AWS Console, go to: <https://console.aws.amazon.com>
- 2) Go to the EC2 Dashboard



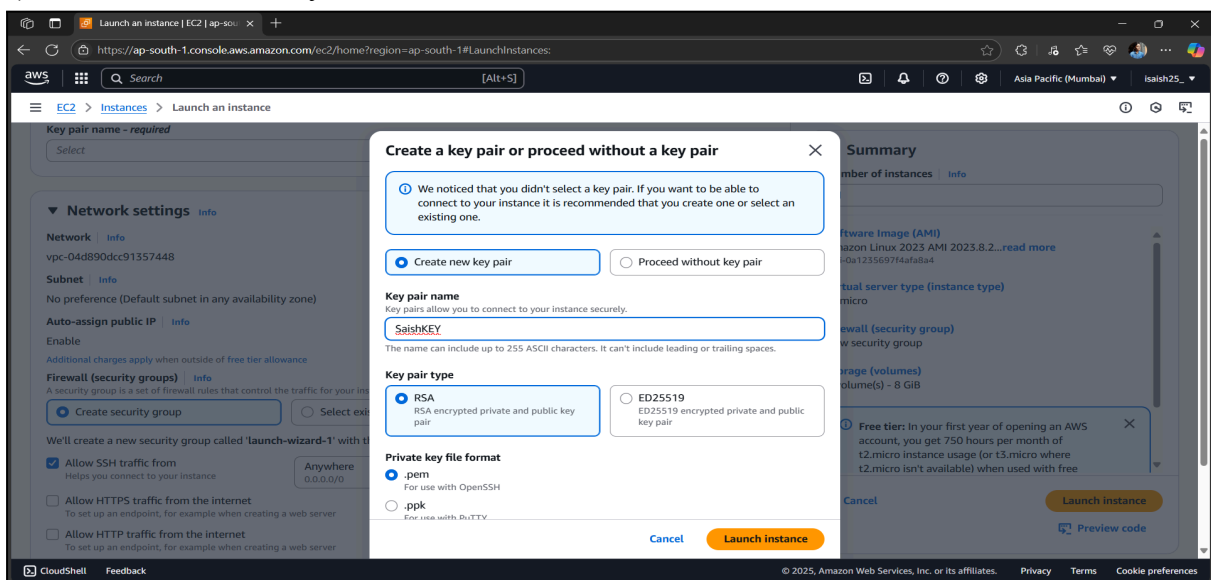
3) Launch an Instance.



#### 4) Configure your Instance.



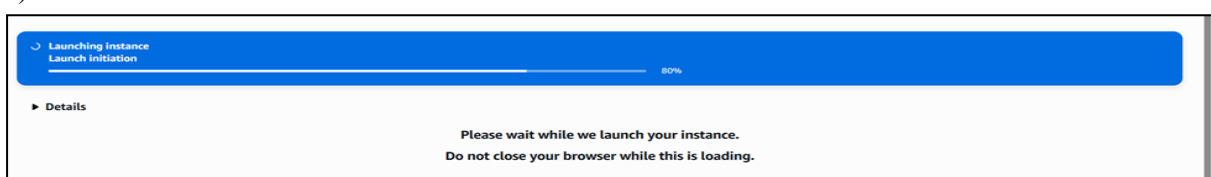
#### 5) Create or Select a Key Pair.



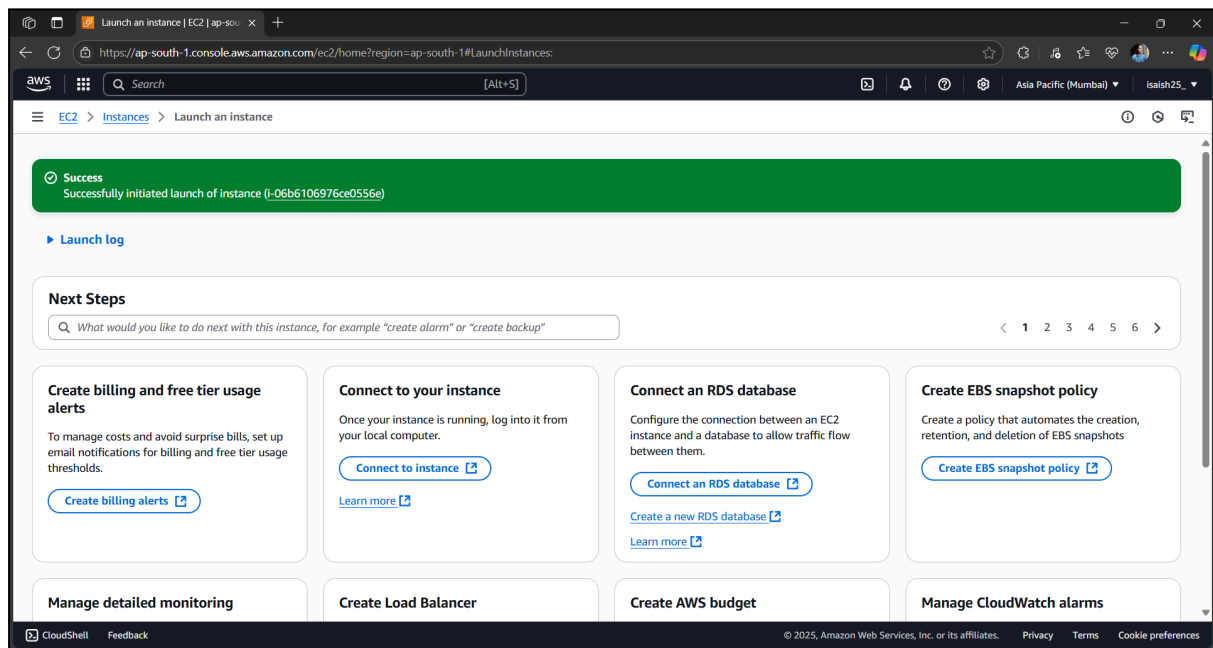
Click "Create key pair," and it will download a .pem file to your computer. Keep this file safe for SSH login.

#### 6) Configure Network Settings

#### 7) Launch



### 8) EC2 Instance Launch Successfully



9) Open PowerShell or Git Bash on your Windows system, navigate to the folder where your .pem key file is saved and run the following command.


```
ec2-user@ip-172-31-10-113:~ X + v
```

```
Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>SaishKEY.pem

C:\Users\Admin\Downloads>ssh
usage: ssh [-46AaCfGgKkMMNnqsTtVvXxYy] [-B bind_interface] [-b bind_address]
          [-c cipher_spec] [-D [bind_address:]port] [-E log_file]
          [-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file]
          [-J destination] [-L address] [-l login_name] [-m mac_spec]
          [-O ctl_cmd] [-o option] [-P tag] [-p port] [-Q query_option]
          [-R address] [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
          destination [command [argument ...]]

C:\Users\Admin\Downloads>ssh -i "SaishKEY.pem" ec2-user@13.233.96.25
The authenticity of host '13.233.96.25 (13.233.96.25)' can't be established.
ED25519 key fingerprint is SHA256:eIRgTSVqOp3cEZ5pVUC2DB0HFRkaBjXq2mvNzhYVdyM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '13.233.96.25' (ED25519) to the list of known hosts.
```



```
Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-10-113 ~]$
```

10) You are now connected to your EC2 instance via SSH