

REPORT

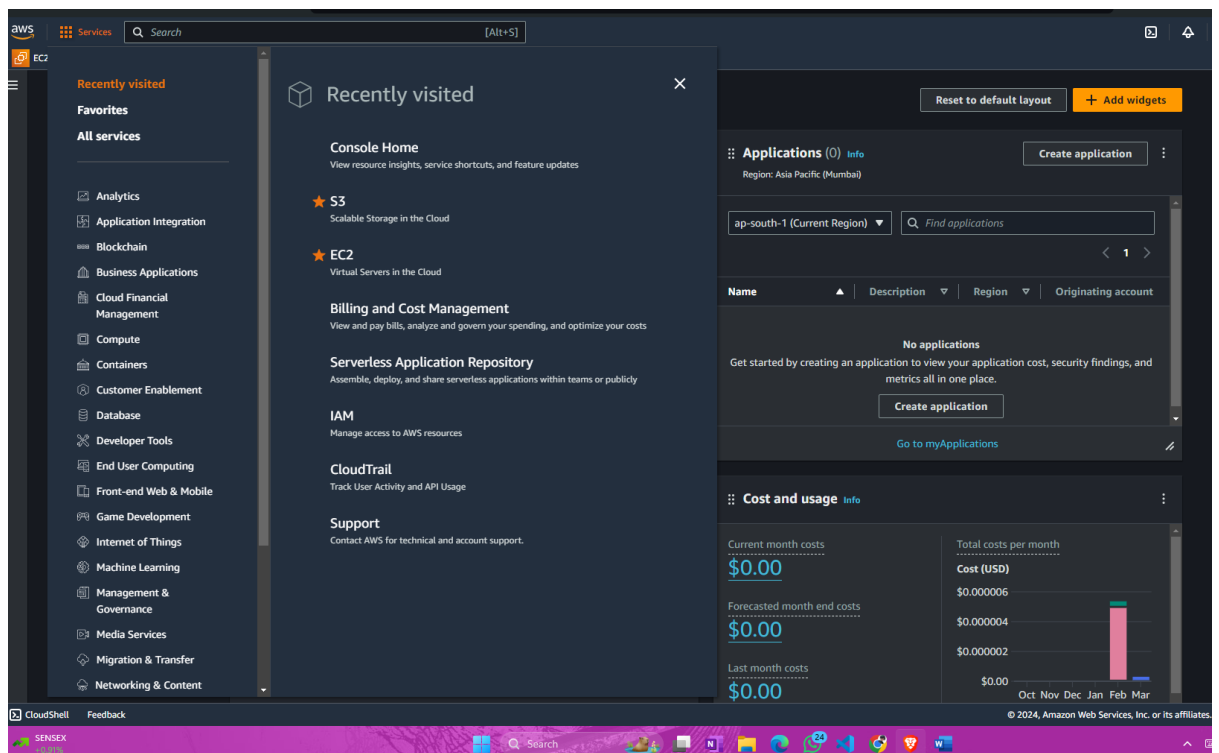
CLOUD COMPUTING

ELASTIC COMPUTE CLOUD (EC2)

-Launching an AWS Instance

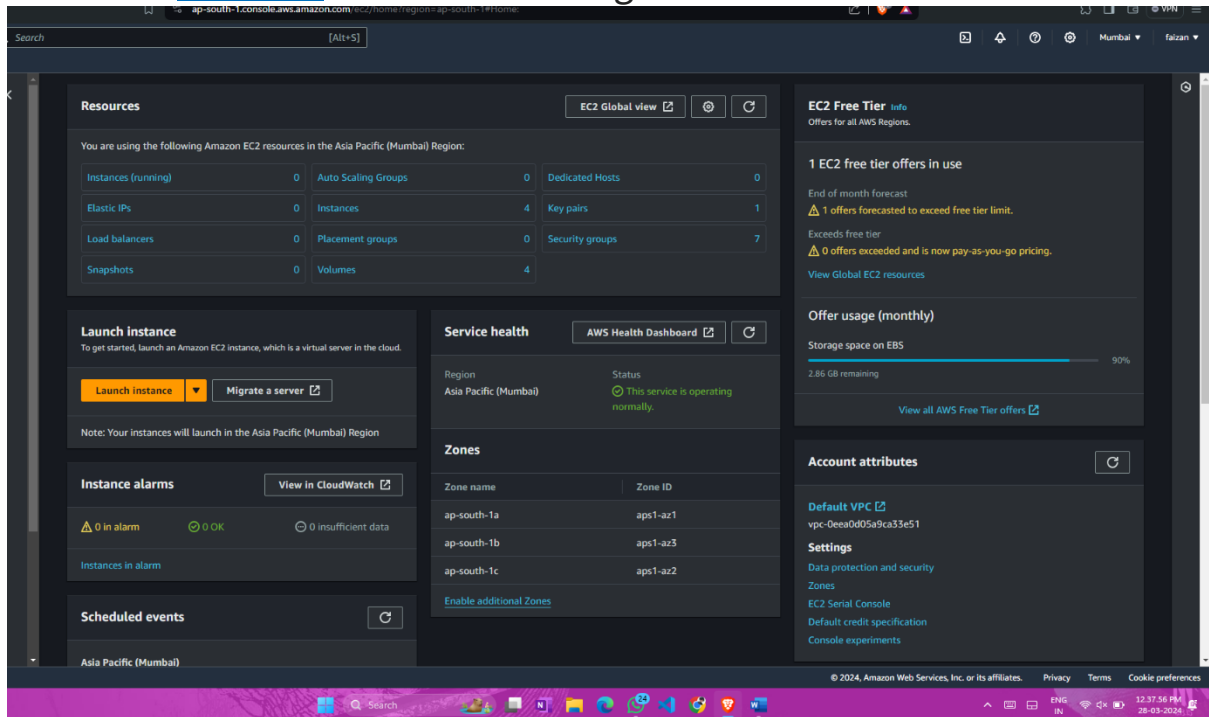
Step 1) In this step,

- Login to your AWS account and go to the AWS Services tab at the top left corner.
- Here, you will see all of the AWS Services categorized as per their area viz. Compute, Storage, Database, etc. For creating an EC2 instance, we have to choose Compute EC2 as in the next step.



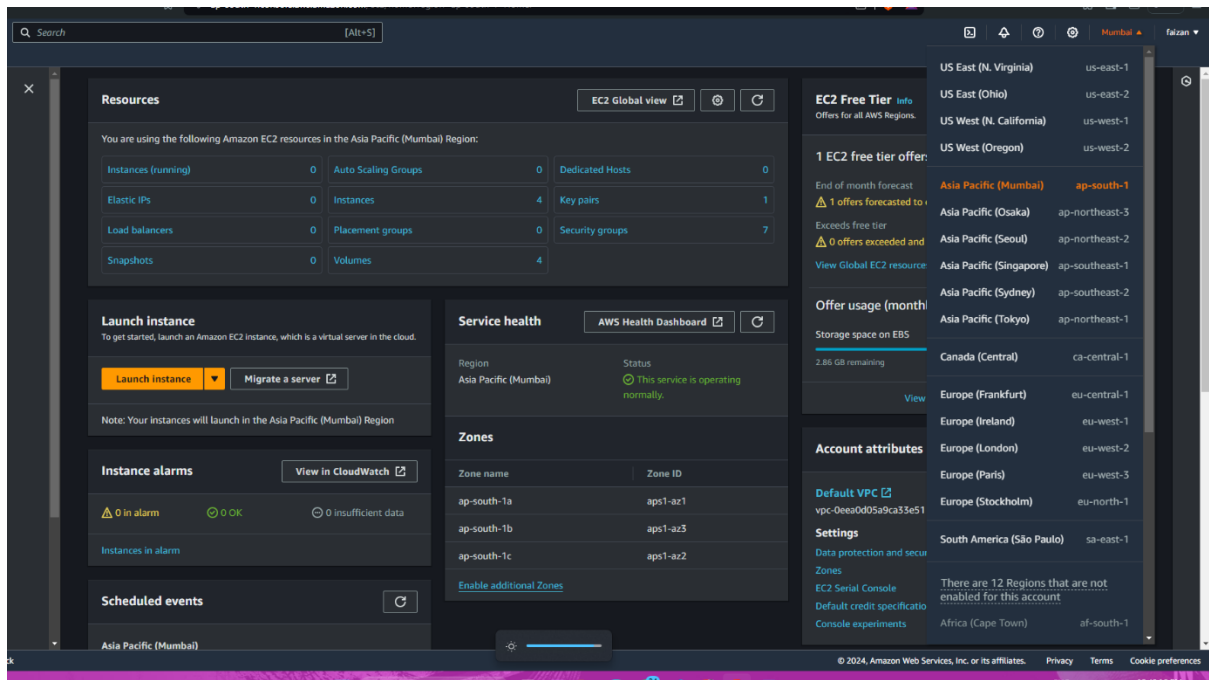
- Open all the services and click on EC2 under Compute services. This will launch the dashboard of EC2.

Here is the EC2 dashboard. Here you will get all the information in gist about the [AWS EC2](#) resources running.



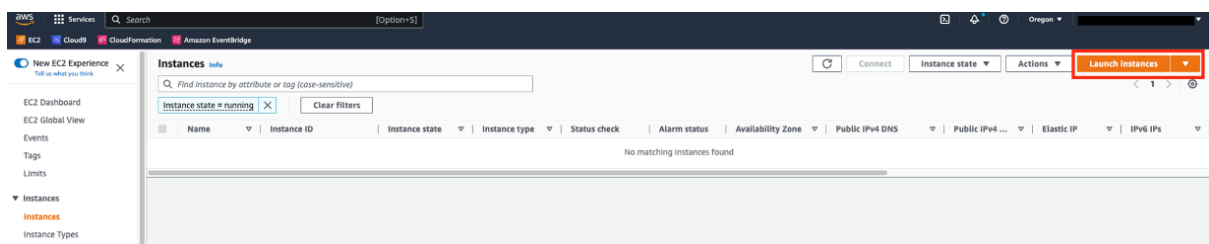
Step 2) On the top right corner of the EC2 dashboard, choose the AWS Region in which you want to provision the EC2 server.

Here we are selecting Asia Pacific (Mumbai). AWS provides 10 Regions all over the globe



Step 3) In this step

- Once your desired Region is selected, come back to the EC2 Dashboard.
- Click on 'Launch Instance' button in the section of Create Instance (as shown below).



Step 4) On the Choose an Amazon Machine Image (AMI) screen, choose Amazon Linux 2 AMI (HVM), SSD Volume Type

Name and tags [Info](#)

Name

bastion

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

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

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

S

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

Free tier eligible

ami-0b029b1931b347543 (64-bit (x86)) / ami-03335e6e2378e87c3 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230221.0 x86_64 HVM gp2

Architecture

AMI ID

64-bit (x86)

ami-0b029b1931b347543

Verified provider

Step 5) On the **Choose an Instance Type** screen, select `t2.micro` as the instance type.

▼ **Instance type** [Info](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory

On-Demand Linux pricing: 0.0116 USD per Hour

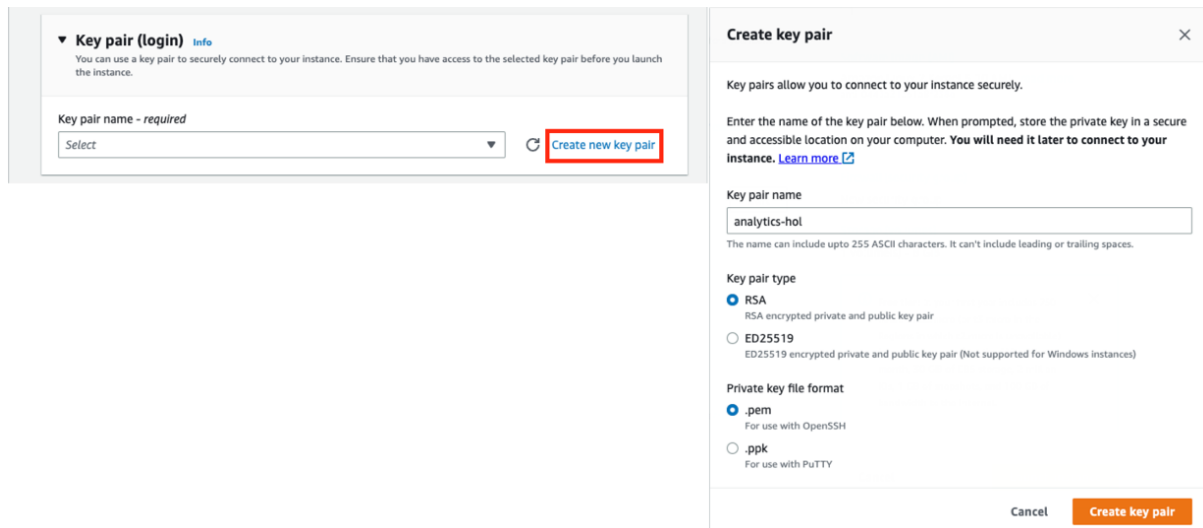
On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

Compare instance types

Step 6) Create a key pair to access EC2 Instance. Select Create a new key pair, enter `analytics-hol` as the Key pair name, and click **Download Key Pair**. Save the Key Pair safely on your local machine and click **[Launch Instances]**. (EC2 Instance startup may take several minutes.)



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

Select [Create new key pair](#)

Create key pair [×](#)

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name

analytics-hol

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)

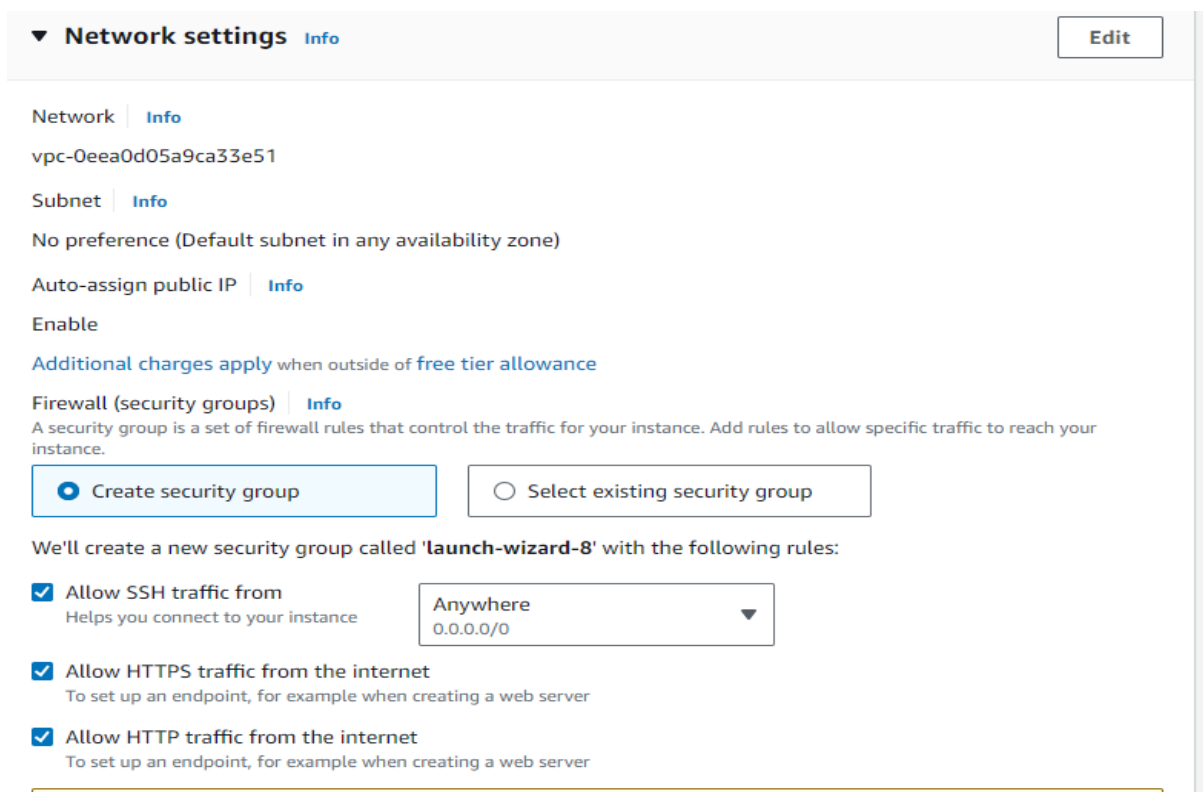
Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

[Cancel](#) [Create key pair](#)

Step 7) After creating key pair ,under network setting you can allow http and https traffic based on your requirements.



Network settings [info](#) [Edit](#)

Network | [info](#)

vpc-0eea0d05a9ca33e51

Subnet | [info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP | [info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) | [info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-8' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance Anywhere
0.0.0.0/0

☒ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

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To set up an endpoint, for example when creating a web server

Step 8) Ignore the rest of the settings and click **Launch instance**.

The screenshot displays the AWS Management Console's EC2 instance configuration page. The 'Configure storage' section is expanded, showing a single 8 GiB gp3 root volume. The 'Launch instance' button is circled in red.

Configure storage [Info](#) [Advanced](#)

1x 8 GiB gp3 Root volume (Not encrypted)

[Free tier eligible customers can get up to 30 GB of EBS General Purpose \(SSD\) or Magnetic storage](#)

[Add new volume](#)

[Click refresh to view backup information](#) [Refresh](#)

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

Advanced details [Info](#)

Launch instance

Your EC2 instance is launched