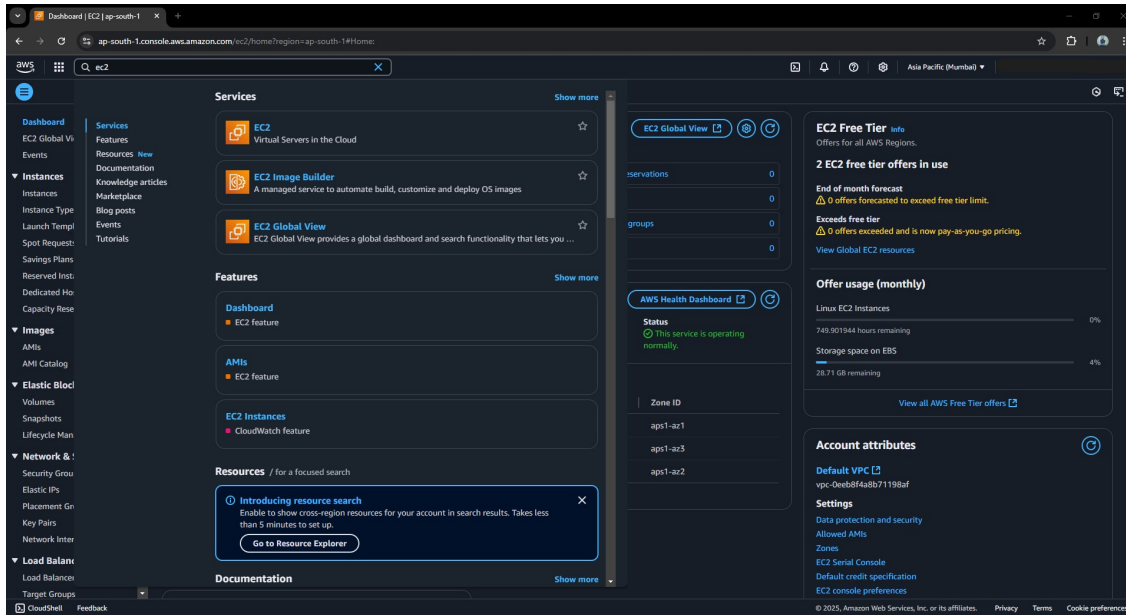
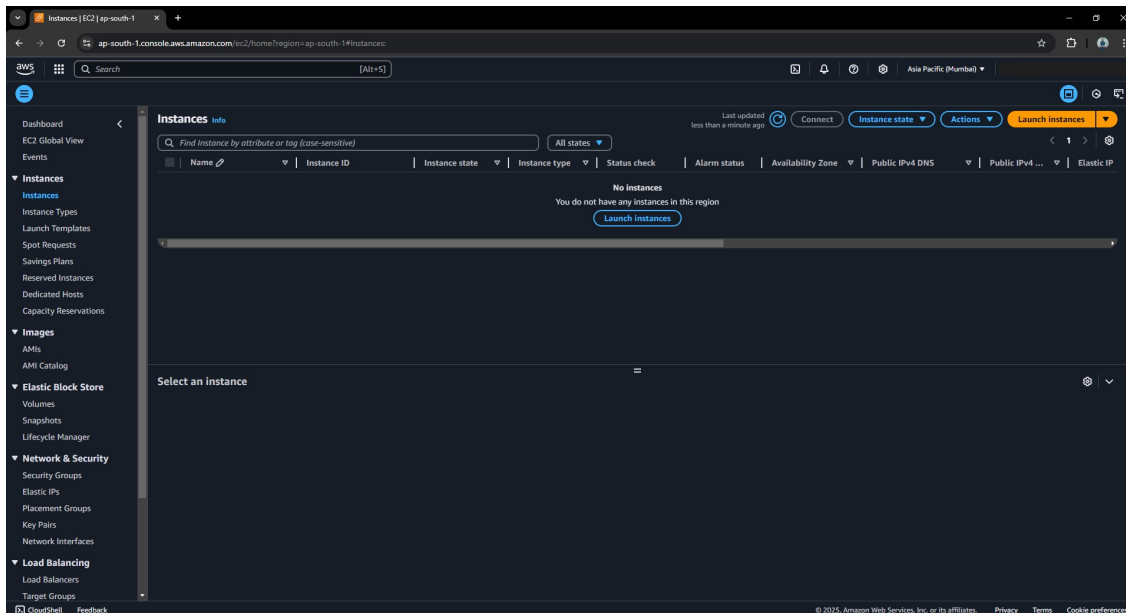


How to launch an EC2 Instance:

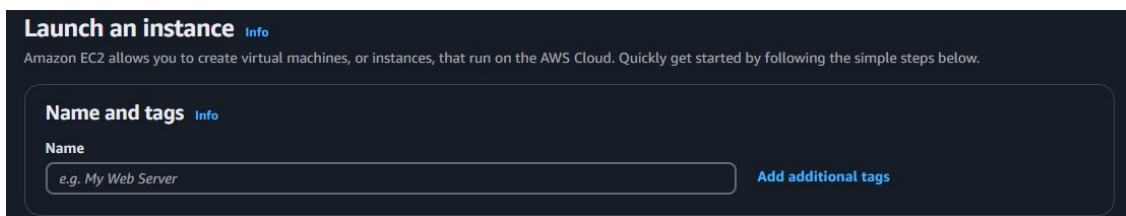
1. **Log in to AWS Management Console:**
Search for "EC2" in the search bar and select **EC2** from the results



2. **Navigate to Instances:**
Click on **Instances** from the menu options. To launch an EC2 instance, click on **Launch Instances**.



3. **Enter the Instance Name:**
Provide a name for your EC2 instance.



4. **Choose an AMI (Amazon Machine Image):**
Select the operating system (OS) for your instance.

▼ 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

SUSE Linux

Debian

debian

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-0d2614eafc1b0e4d2 (64-bit (x86), uefi-preferred) / ami-0f6168e963366cd18 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Amazon Linux 2023 AMI 2023.6.20250115.0 x86_64 HVM kernel-6.1

Architecture

64-bit (x86) ▼

Boot mode

uefi-preferred

AMI ID

ami-0d2614eafc1b0e4d2

Username

ec2-user

Verified provider

5. **Select the Instance Type:**
Choose an instance type based on your required number of CPUs, storage needs, and budget.

▼ Instance type Info | Get advice

Instance type

t2.micro

Free tier eligible

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 Ubuntu Pro base pricing: 0.0142 USD per Hour On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

6. **Create or Select a Key Pair:**

- A key pair consists of security credentials used to securely log in to your EC2 instance.
 - **Private Key:** Stored locally on your computer and required to connect to the instance.
 - **Public Key:** Stored in the EC2 instance during its launch. AWS uses this key to verify the private key during authentication.
- Create a new key pair and save it to your computer, or select an existing key pair.

▼ 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 pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

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

Private key file format

☐ .pem

For use with OpenSSH

☒ .ppk

For use with PuTTY

⚠ 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](#)

Cancel

Create key pair

7. Configure Network Settings:

- **VPC (Virtual Private Cloud):** Choose a VPC or use the default one provided.
- **Subnet:** Select or create a subnet.
- **Security Group:** Choose a security group. A security group is a set of firewall rules that control the inbound and outbound traffic for your instance.

▼ Network settings Info

Edit

Network Info

vpc-0eeb8f4a8b71198af

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-1' 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

☒ Allow HTTP traffic from the internet

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

⚠ 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.

8. Configure Storage:

Set up storage using EBS (Elastic Block Store). Choose the necessary volume and storage size.

The screenshot shows the 'Configure storage' section of the AWS Management Console. It features a dropdown menu for 'Configure storage' with an 'Info' link and an 'Advanced' button. Below this, there's a summary of the current configuration: '1x 8 GiB gp3 Root volume 3000 IOPS (Not encrypted)'. A notification box states: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'. There is an 'Add new volume' button. Below that, a note says: 'Click refresh to view backup information. The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.' At the bottom, it shows '0 x File systems' and an 'Edit' button.

9. Add User Data (Optional):

User data is a script that runs when the EC2 instance is first launched. It is executed as the root user.

The screenshot shows the 'User data - optional' section. It has a title 'User data - optional' with an 'Info' link. Below the title, it says 'Upload a file with your user data or enter it in the field.' There is a 'Choose file' button. Below that, there's a text area containing a bash script:

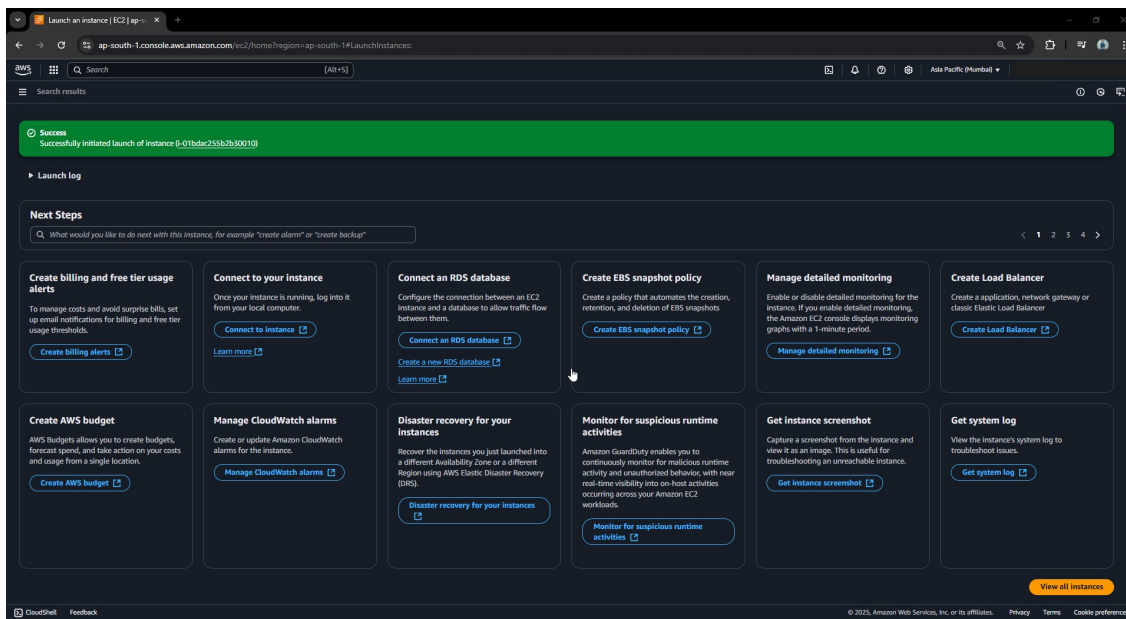
```
#!/bin/bash
# Use this for your user data (script from top to bottom)
# install httpd (Linux 2 version)
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "<html><h1>Welcome to Apache Web Server on Amazon Linux! IP $(hostname -f)</h1></html>"
> /var/www/html/index.html
```

 At the bottom, there is a checkbox labeled 'User data has already been base64 encoded'.

10. Review and Launch:

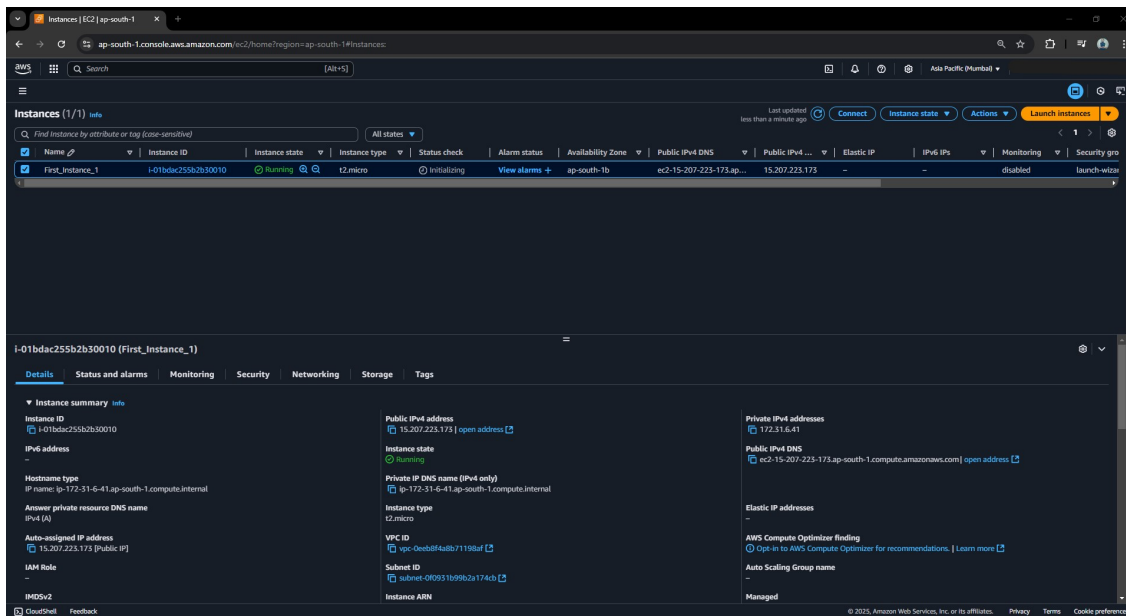
Verify all the configurations to ensure they meet your requirements. Once satisfied, click on **Launch Instance**.

The screenshot shows the 'Summary' section of the AWS Management Console. It has a title 'Summary' with a dropdown arrow. Below the title, there's a 'Number of instances' field with the value '1' and an 'Info' link. Below that, there are several sections: 'Software Image (AMI)' with the text 'Amazon Linux 2023 AMI 2023.6.2...read more' and 'ami-0d2614eafc1b0e4d2'; 'Virtual server type (instance type)' with the text 't2.micro'; 'Firewall (security group)' with the text 'New security group'; and 'Storage (volumes)' with the text '1 volume(s) - 8 GiB'. At the bottom, there's a notification box: '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 IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.' At the very bottom, there are three buttons: 'Cancel', 'Launch instance', and 'Preview code'.



11. Verify Instance Status:

After launching, confirm that your instance is running. To check if the web server is running, open the public IP address of the instance in your browser.



Welcome to Apache Web Server on Amazon Linux! IP ip-172-31-6-41.ap-south-1.compute.internal