

## 1. Configuring and launching EC2 instance on AWS.

aws

Search

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EC2

Instances

Launch an instance

Launch an instance

Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Info

Name

My-first-web-server

Add additional tags

Application and OS Images (Amazon Machine Image)

Info

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

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

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances

Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...[read more](#)

ami-02b8269d5e85954ef

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

[Preview code](#)

CloudShell

Feedback

Console Mobile App

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Instance type

Info

Get advice

Instance type

t3.micro

Free tier eligible

Family: t3 2 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0112 USD per Hour On-Demand SUSE base pricing: 0.0112 USD per Hour

On-Demand Windows base pricing: 0.0204 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0147 USD per Hour On-Demand RHEL base pricing: 0.04 USD per Hour

Additional costs apply for AMIs with pre-installed software

All generations

Compare instance types

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

myserver-key

Create new key pair

Network settings

Info

Network

Info

vpc-024219f6c2da46e48

Subnet

Info

No preference (Default subnet in any availability zone)

Auto-assign public IP

Info

Enable

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

Instances (1) [Info](#)

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

All states

< 1 >

⚙️

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	My-first-web-s...	i-06159cfa92f05cb28	<span>Running</span>	t3.micro	<span>Initializing</span>	<a href="#">View alarms +</a>	ap-south-1b	ec2-15-206-

## Connect [Info](#)

Connect to an instance using the browser-based client.

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-06159cfa92f05cb28 (My-first-web-server)

- Open an SSH client.
- Locate your private key file. The key used to launch this instance is myserver-key.pem
- Run this command, if necessary, to ensure your key is not publicly viewable.

chmod 400 "myserver-key.pem"
- Connect to your instance using its Public DNS:

ec2-15-206-127-34.ap-south-1.compute.amazonaws.com

Command copied

ssh -i "myserver-key.pem" ubuntu@ec2-15-206-127-34.ap-south-1.compute.amazonaws.com

ⓘ

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.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Ashwin> ssh
usage: ssh [-46AaCfGgKkMMNqsTtVvXxYy] [-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 ...]]

PS C:\Users\Ashwin> |

PS C:\Users\Ashwin> cd Downloads
PS C:\Users\Ashwin\Downloads> ls myserver-key.pem

Directory: C:\Users\Ashwin\Downloads

Mode                LastWriteTime         Length Name
----                -
-a-----          02-01-2026      10:54         1674 myserver-key.pem

PS C:\Users\Ashwin\Downloads> |
```

3. After having navigated to the key, using SSH command to connect my local computer to EC2 instance.

```
PS C:\Users\Ashwin\Downloads> ssh -i "myserver-key.pem" ubuntu@ec2-15-206-127-34.ap-south-1.compute.amazonaws.com
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)

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

System information as of Fri Jan  2 05:55:19 UTC 2026

System load:  0.0           Temperature:   ~273.1 C
Usage of /:   26.2% of 6.71GB Processes:      113
Memory usage: 23%          Users logged in: 0
Swap usage:   0%           IPv4 address for ens5: 172.31.4.85

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 Jan  2 05:51:23 2026 from 122.161.72.230
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-4-85:~$ |
```

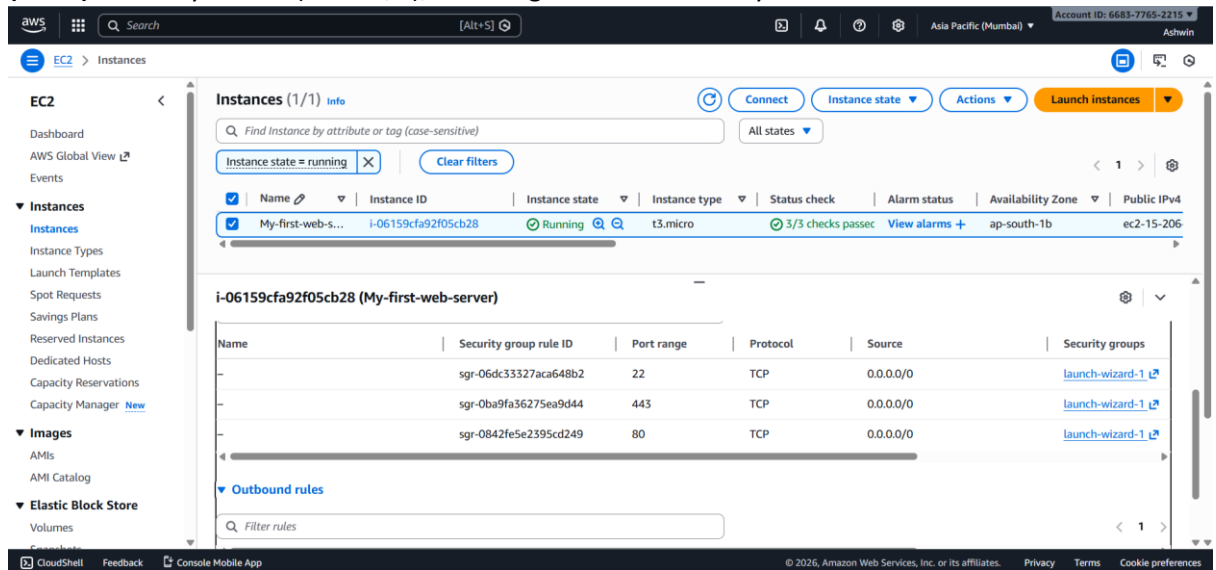
4. Used “sudo apt update” and “sudo apt upgrade” for latest security patches and stability for system before installing the server.

```
ubuntu@ip-172-31-4-85:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  liblua5.4-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 2086 kB of archives.
After this operation, 8090 kB of additional disk space will be used.
Do you want to continue? [Y/n] |
```

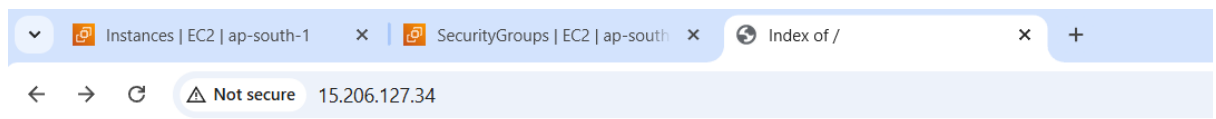
5. “curl ifconfig.me” command for verifying server has internet access and reveals its Public IP.

```
ubuntu@ip-172-31-4-85:~$ curl ifconfig.me
15.206.127.34ubuntu@ip-172-31-4-85:~$ |
```

6. **Critical Configuration:** To ensure the web server was accessible to the public, I manually updated the EC2 Security Group's inbound rules. I added a rule to allow traffic on **Port 80 (HTTP)** from any source (0.0.0.0/0), resolving initial connectivity issues.



## 7. Final Result

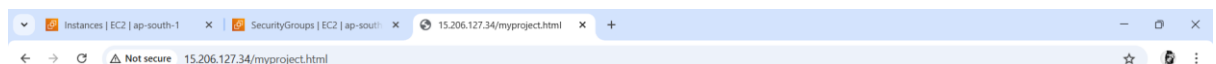


### Index of /

Name	Last modified	Size	Description
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 <a href="#">myproject.html</a>	2026-01-02 06:24	154	
--------------------------------------------------------------------------------------------------------------------	------------------	-----	--

Apache/2.4.58 (Ubuntu) Server at 15.206.127.34 Port 80



Hello! My name is Ashwin. This is my first project and I am hosting a website by deploying a "Apache2" web server using Linux (ubuntu) on AWS.