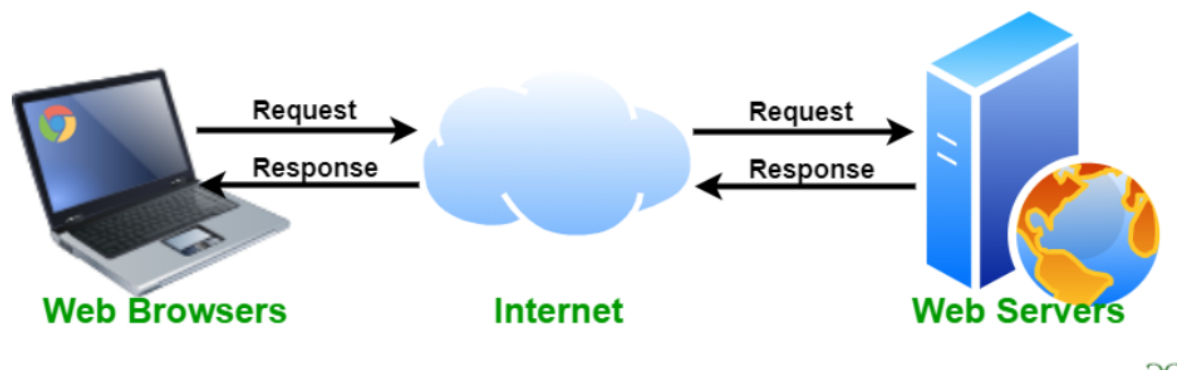


CONFIGURE WEB SERVER ON AWS CLOUD EC2 INSTANCE

web server: web server is software that servers webpages to userbrowser.

It handle requests from clients and responds with requested with requested web page

Their common web servers include apache, microsoftIIS.



Launch ec2 instance in aws

- 1.choice the aws image (os process)
- 2.choice the instance type(1.cpu and ram)
- 3.configure the instance type
- 4.add the storage
- 5.add the tags
6. Configure the security group
- 7.review and launch the instance

Launch an instance

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

Name

mylinux

Add additional tags

Application and OS Images (Amazon Machine Image)

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 linux

AMI from catalog

Quick Start

Amazon Machine Image (AMI)

al2023-ami-2023.2.20231113.0-kernel-6.1-x86_64

ami-0416c18e75bd69567

Verified provider

Free tier eligible

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
Quickstart AMIs	2023-11-10T20:17:22.000Z	x86_64	hvm	ebs	Yes

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2023 AMI

ami-0416c18e75bd69567

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Review commands

Activate Windows
Go to Settings to activate Windows.

Instance type

Instance type

t3.micro

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

On-Demand RHEL base pricing: 0.0708 USD per Hour

On-Demand SUSE base pricing: 0.0108 USD per Hour

On-Demand Linux base pricing: 0.0108 USD per Hour

On-Demand Windows base pricing: 0.02 USD per Hour

Free tier eligible

Additional costs apply for AMIs with pre-installed software

All generations

Compare instance types

Key pair (login)

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

kamal

Create new key pair

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2023 AMI

ami-0416c18e75bd69567

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Allow the http in security group setting as below

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

Network [info](#)
vpc-076d0ca61d174d027

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-3' 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

Summary

Number of instances [info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI
ami-0416c18e75bd69567

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#)
[Review commands](#)

Activate Windows
Go to Settings to activate Windows.

Go to connect and click on ssh client copy the public instance

EC2 Instance Connect | **Session Manager** | **SSH client** | **EC2 serial console**

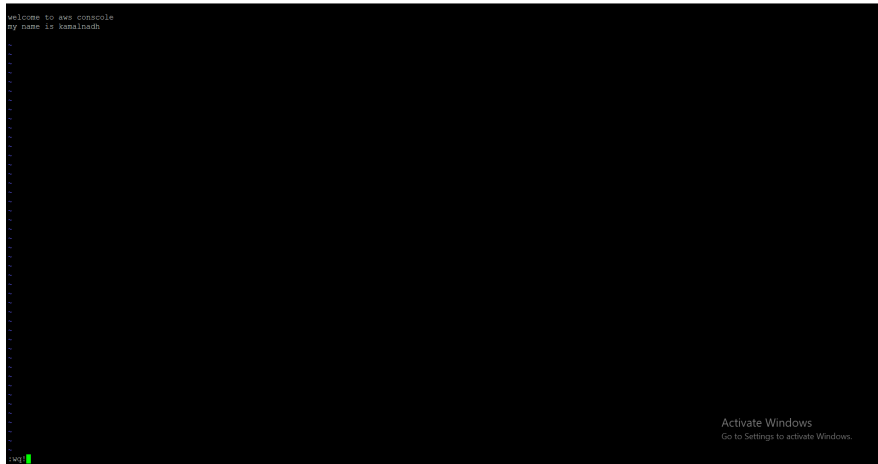
Instance ID
[i-0bfc4f2f16af677ec](#) (mylinuxsystem)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is mylinux.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
`chmod 400 mylinux.pem`
4. Connect to your instance using its Public DNS:
`ec2-16-171-18-185.eu-north-1.compute.amazonaws.com`

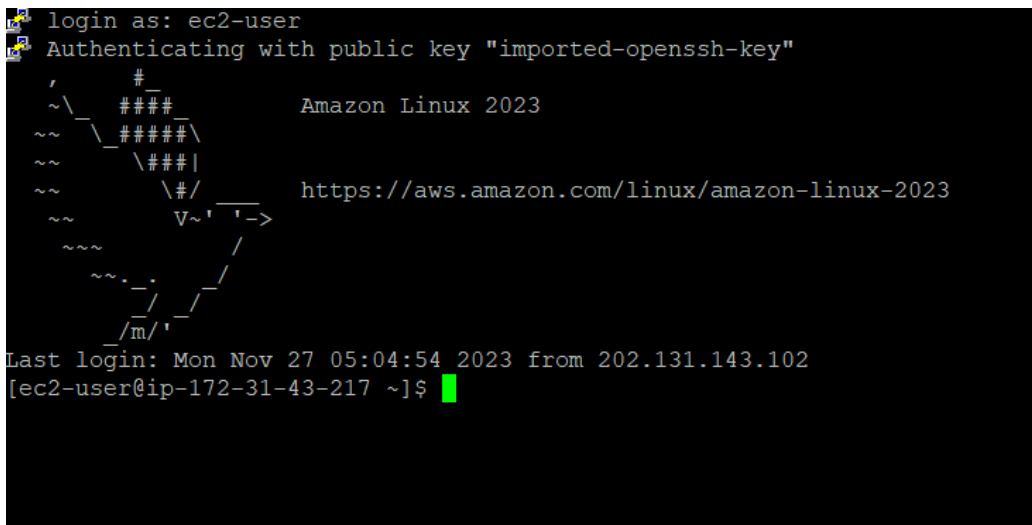
Example:
`ssh -i "mylinux.pem" ec2-user@ec2-16-171-18-185.eu-north-1.compute.amazonaws.com`

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

1.Go to puuty paste the public DNS



2. Login as ec2 -user



3. Install apache server

```
ec2-user@ip-172-31-34-140 ~]$ sudo su
[root@ip-172-31-34-140 ec2-user]# yum update -y
Last metadata expiration check: 0:03:04 ago on Mon Nov 27 08:44:58 2023.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-34-140 ec2-user]# yum install -y httpd -y
Last metadata expiration check: 0:03:32 ago on Mon Nov 27 08:44:58 2023.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.58-1.amzn2023	amazonlinux	47 k
Installing dependencies:				
apr	x86_64	1.7.2-2.amzn2023.0.2	amazonlinux	129 k
apr-util	x86_64	1.6.3-1.amzn2023.0.1	amazonlinux	98 k
generic-logos-httpd	noarch	19.0.0-12.amzn2023.0.3	amazonlinux	16 k
httpd-core	x86_64	2.4.58-1.amzn2023	amazonlinux	1.4 M
httpdfilesystem	noarch	2.4.58-1.amzn2023	amazonlinux	14 k
httpd-tools	x86_64	2.4.58-1.amzn2023	amazonlinux	81 k
libbrotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	315 k
mailcap	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	33 k
Installing weak dependencies:				
apr-util-openssl	x86_64	1.6.3-1.amzn2023.0.1	amazonlinux	17 k
mod_http2	x86_64	2.0.11-2.amzn2023	amazonlinux	150 k
mod_lua	x86_64	2.4.58-1.amzn2023	amazonlinux	61 k

```
Transaction Summary
Install 12 Packages

Total download size: 2.3 M
Installed size: 6.9 M
Downloading Packages:
(1/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm 4.7 MB/s | 315 kB 00:00
(2/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm 1.4 MB/s | 98 kB 00:00
(3/12): apr-1.7.2-2.amzn2023.0.2.x86_64.rpm 1.7 MB/s | 129 kB 00:00
```

Steps install apache server

1. Go the linux command
2. Using the sudo su (change the root user)
3. Update the linux server (using yum update -y)
4. Install Httpd server (yum install -y Httpd)
5. Httpd is Apache hyper text transform protocol)
6. Start apache server (systemctl start httpd.service)
7. Enable apache server (systemctl enable httpd .service)
8. Created folder as (echo " my name is kamalnadh >var/www/html/one.html)
9. Go the ec2 instance copy the public ip Paste google browser display

