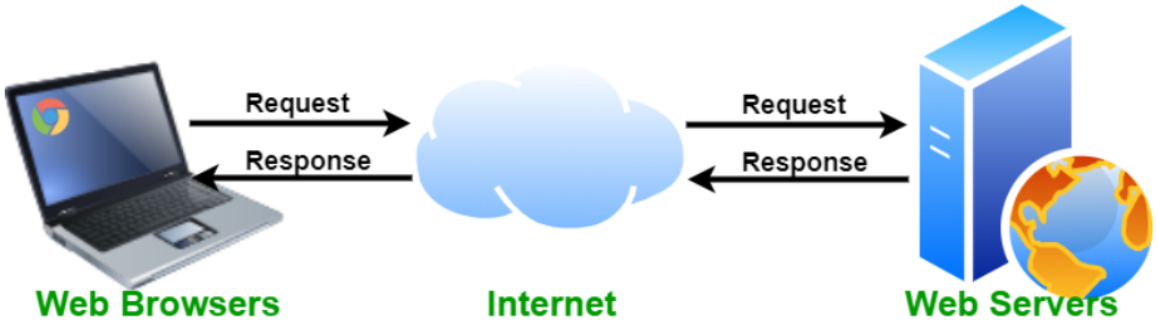
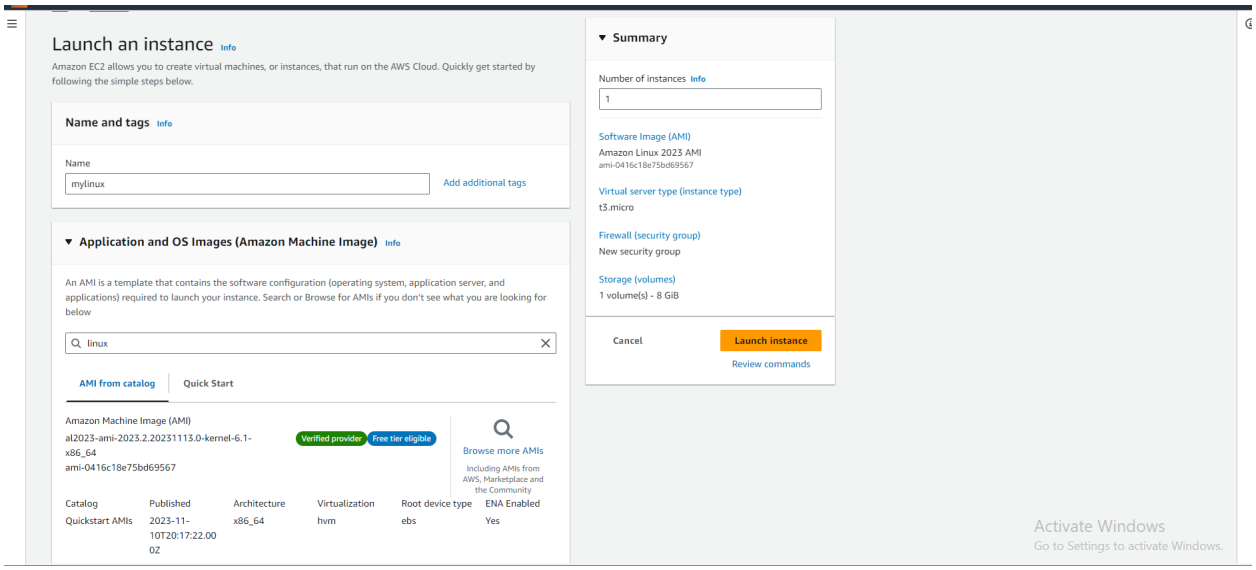
CONFIGURE WEB SERVER ON AWS CLOUD EC2 INSTANCE

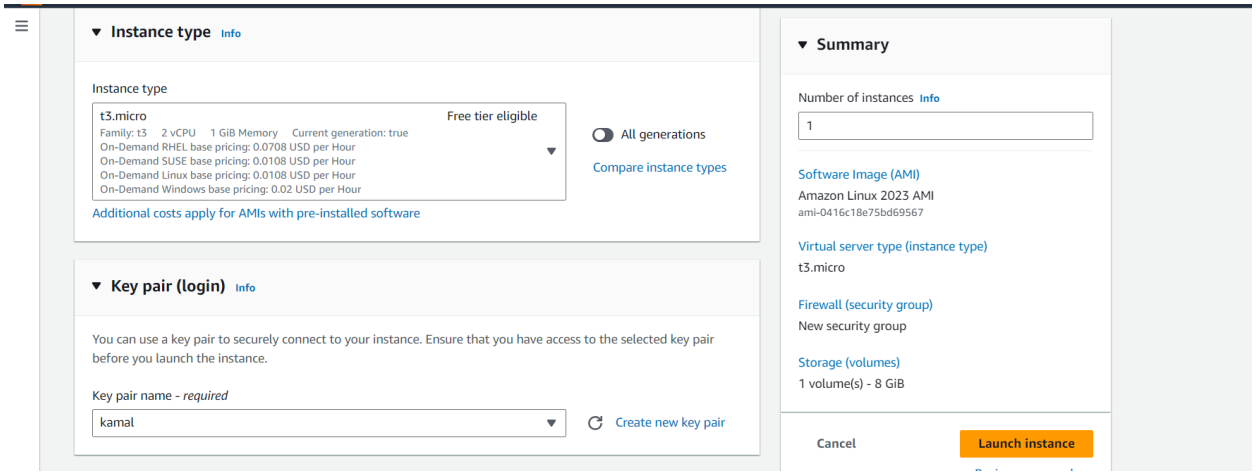
web server: web server is software that servers webpages to userbrowser.
It handle requests from clients and responds with requested with requested web page
Their common web servers include apache, microsoftIIS.



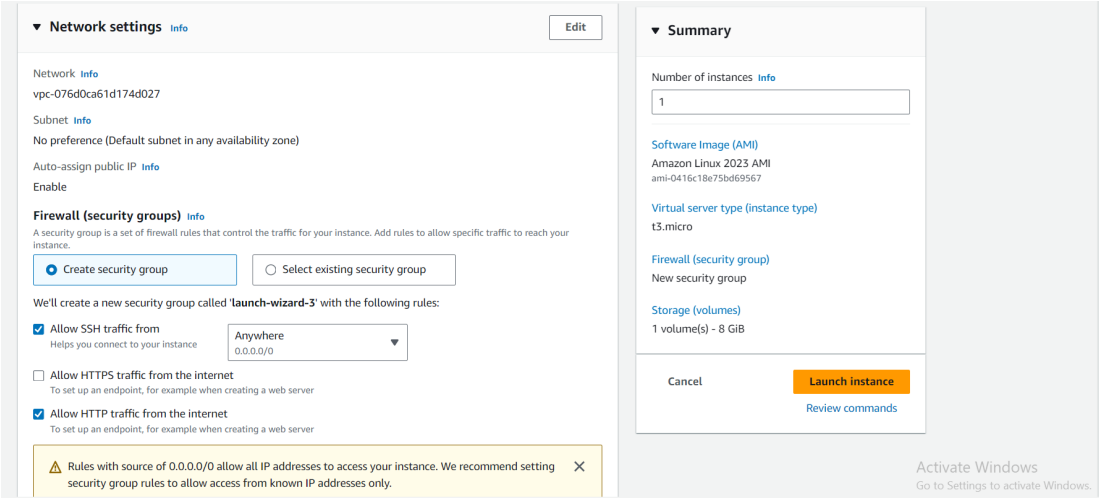
Launch ec2 instance in aws

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 laugh the instance

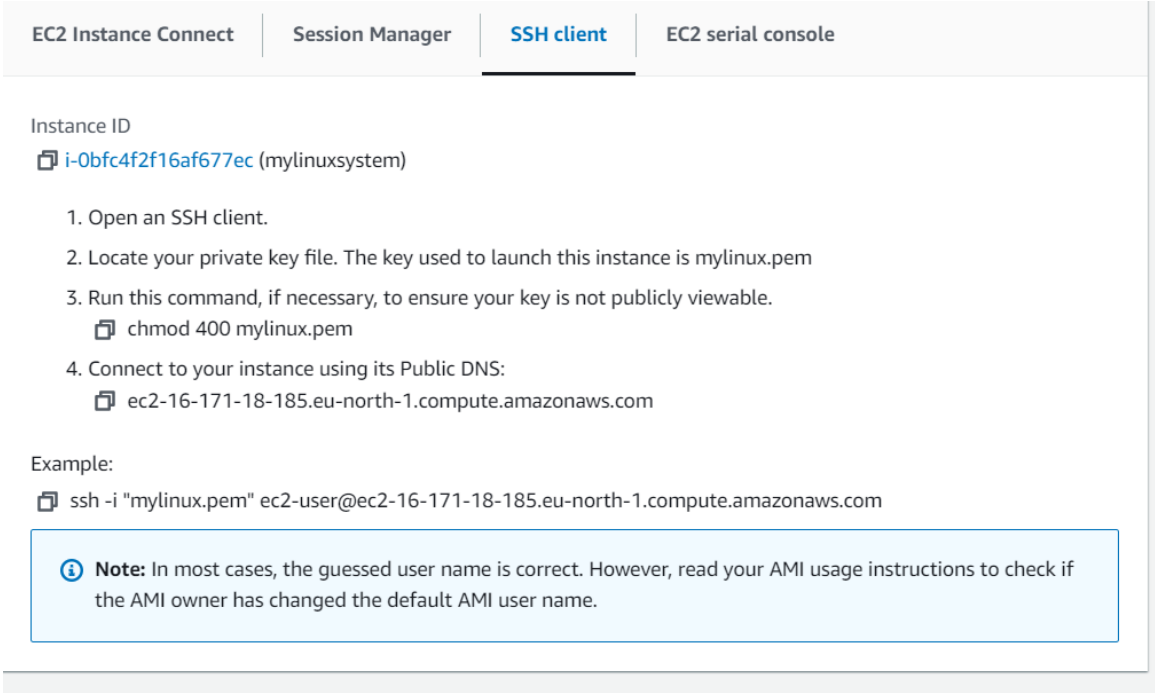

Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
mylinux
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that 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
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
Quickstart AMIs
Published
2023-11-10T20:17:22.000Z
Architecture
x86_64
Virtualization
hvm
Root device type
ebs
ENA Enabled
Yes
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.


Instance type Info
Instance type
t3.micro
Free tier eligible
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
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
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
kamal
Create new key pair
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

Allow the http in securtiy group setting as below

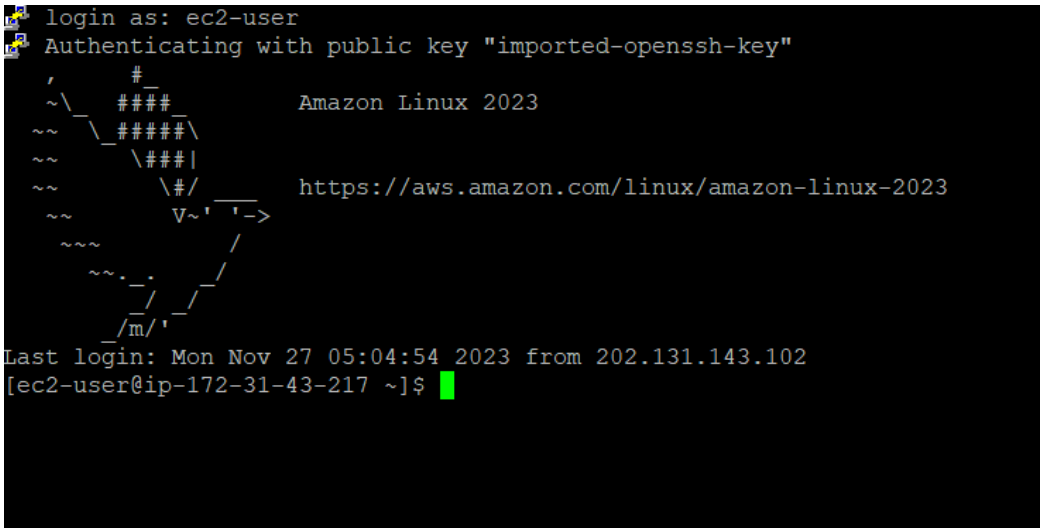


Go to connect and click on ssh client copy the public instance

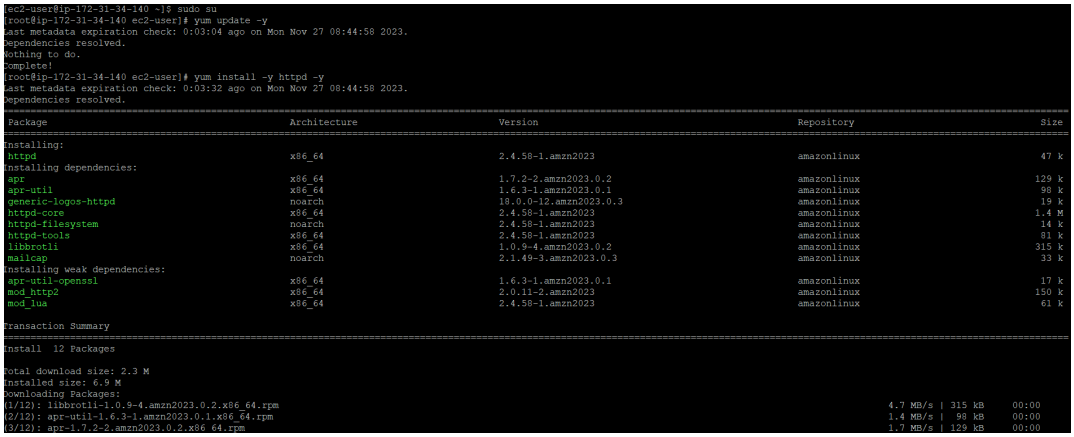


1.Go to puuty paste the public DNS

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          18.0.0-12.amzn2023.0.3  amazonlinux   19 k
 httpd-core              x86_64          2.4.58-1.amzn2023       amazonlinux  1.4 M
 httpd-filesystem        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 transfrorm 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