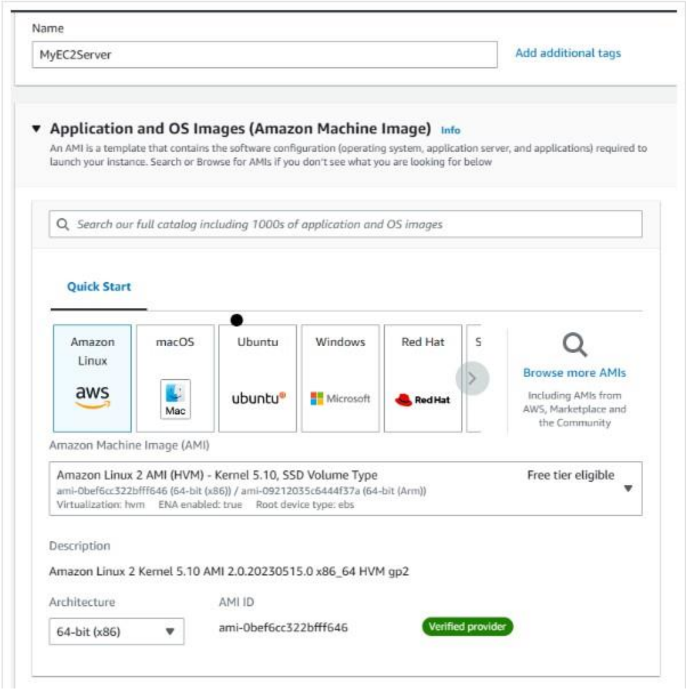
9. Create and Configure web server on Amazon Linux instance with Elastic IP.

Step 1. Launch EC2

a. Open AWS Console and Launch the EC2 instance with the configurations indicated below

Name: <INSTANCE_NAME>



Name

MyEC2Server

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

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)

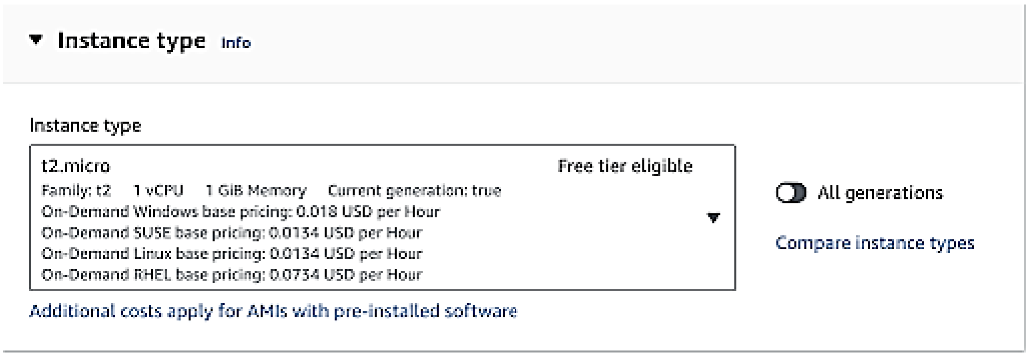
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type — Free tier eligible
ami-0bef6cc322bfff646 (64-bit (x86)) / ami-09212035c6444f37a (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230515.0 x86_64 HVM gp2

Architecture: 64-bit (x86)

AMI ID: ami-0bef6cc322bfff646

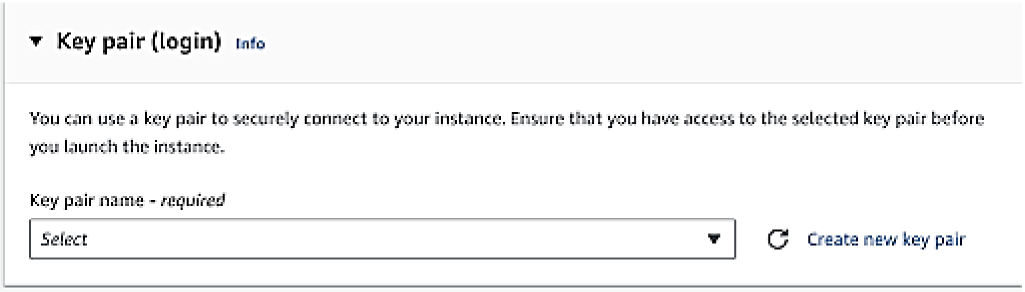


Instance type Info

Instance type

t2.micro — Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.018 USD per Hour
On-Demand SUSE base pricing: 0.0134 USD per Hour
On-Demand Linux base pricing: 0.0134 USD per Hour
On-Demand RHEL base pricing: 0.0734 USD per Hour

Next, we will make sure to create a new security group for our instance.



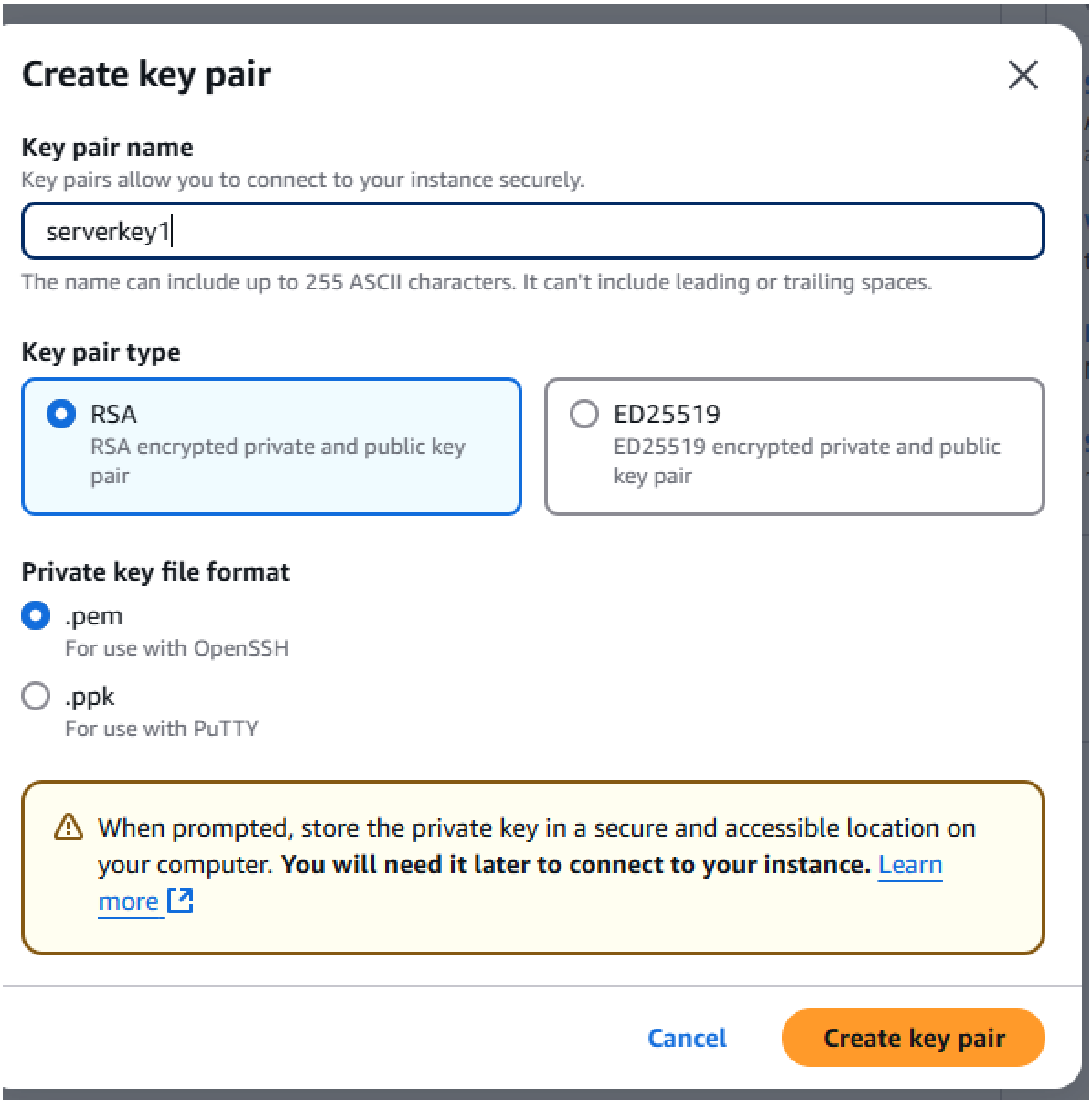
Key pair (login) Info

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

Creating a new security group for your new EC2 instance is a fundamental security best practice in AWS. It allows you to define and enforce customized network access controls, adhere to the **least privilege principle**, and maintain better isolation and security for your EC2 instances.



Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

serverkey1

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

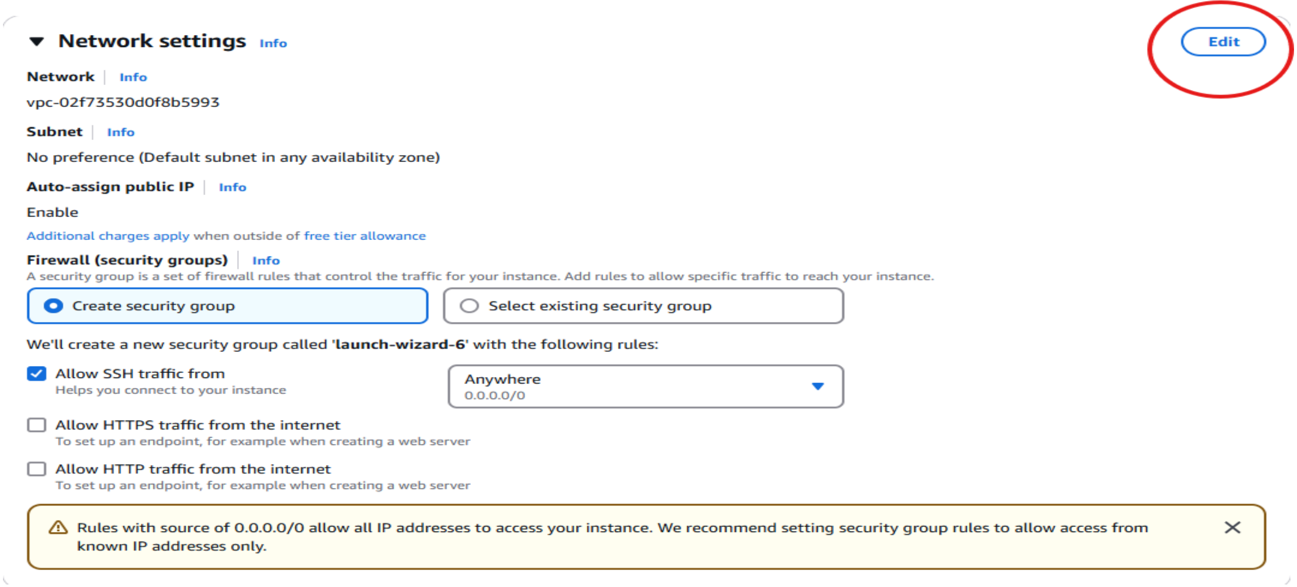
● .pem
For use with OpenSSH

○ .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

Finally, click on the “Create key pair” option in order to generate the SSH key and this will prompt the download in your browser. Also, there is a warning from AWS that we should store our private keys in a secure and accessible location on our computers.

c. Create a Security Group and add inbound rules to allow SSH and HTTP traffic from anywhere.



▼ **Network settings** Info

Edit

Network | Info

vpc-02f73530d0f8b5993

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

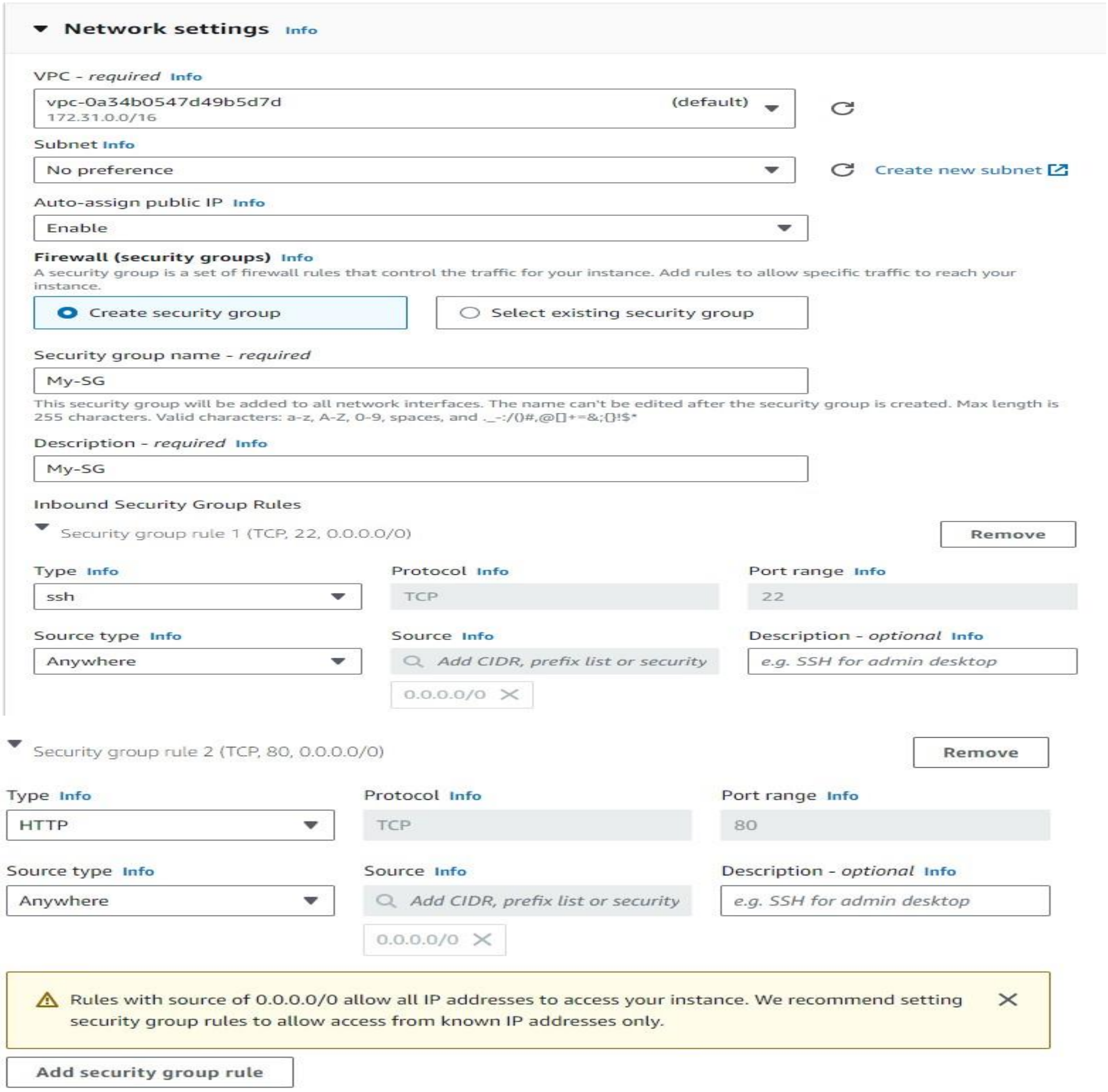
We'll create a new security group called '**launch-wizard-6**' with the following rules:

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

☐ 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. ✕



▼ **Network settings** Info

VPC - *required* Info

vpc-0a34b0547d49b5d7d (default)
172.31.0.0/16

Subnet Info

No preference

Create new subnet

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

Security group name - *required*

My-SG

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*

Description - *required* Info

My-SG

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) — Remove

Type Info	Protocol Info	Port range Info
ssh	TCP	22
Source type Info	Source Info	Description - *optional* Info
Anywhere	Add CIDR, prefix list or security 0.0.0.0/0 ✕	e.g. SSH for admin desktop

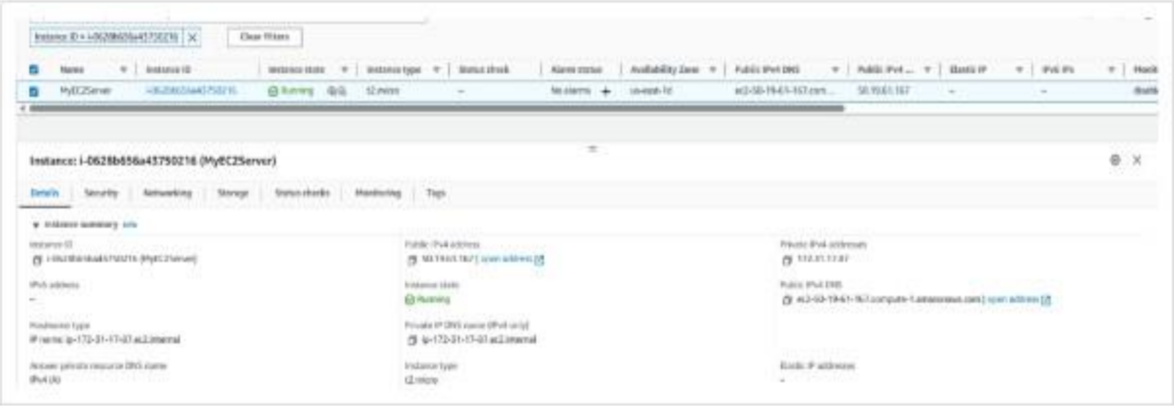
▼ Security group rule 2 (TCP, 80, 0.0.0.0/0) — Remove

Type Info	Protocol Info	Port range Info
HTTP	TCP	80
Source type Info	Source Info	Description - *optional* Info
Anywhere	Add CIDR, prefix list or security 0.0.0.0/0 ✕	e.g. SSH for admin desktop

⚠ 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. ✕

Add security group rule

d. Review and Launch Instance.



Instance ID = i-0628b656a43750216 ✕ Clear filters

☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs	Monit
☑	MyEC2Server	i-0628b656a43750216	Running	t2.micro	–	No alarms +	us-east-1d	ec2-50-19-61-157.com...	50.19.61.157	–	–	disab

Instance: i-0628b656a43750216 (MyEC2Server)

▼ Instance summary Info

Instance ID
i-0628b656a43750216 (MyEC2Server)

Public IPv4 address
50.19.61.157 | open address

Private IPv4 addresses
172.31.17.87

IPv6 address
–

Instance state
Running

Public IPv4 DNS
ec2-50-19-61-157.compute-1.amazonaws.com | open address

Hostname type
IP name: ip-172-31-17-87.ec2.internal

Private IP DNS name (IPv4 only)
ip-172-31-17-87.ec2.internal

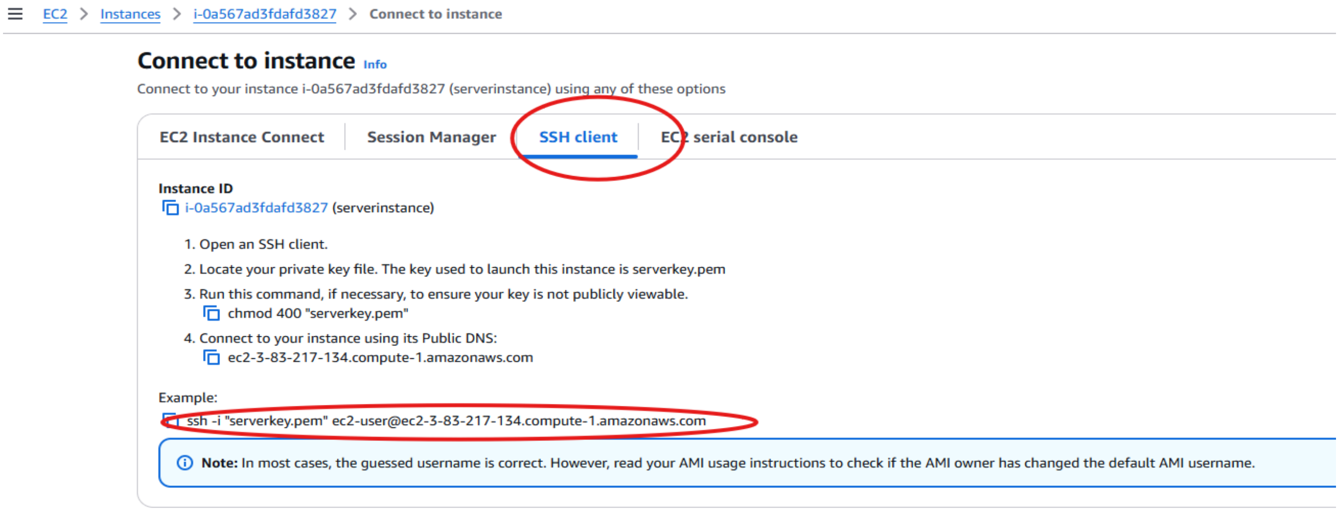
Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

Connect the Linux instance with **SSH client** connection or EC2 **Instance Connect**.

If connecting with **SSH Client** ,open command prompt in local system and change path for folder where your Linux instance key pair available in local system.
Then paste the instance path.



Connect to instance Info

Connect to your instance i-0a567ad3fdafd3827 (serverinstance) using any of these options

Instance ID
i-0a567ad3fdafd3827 (serverinstance)

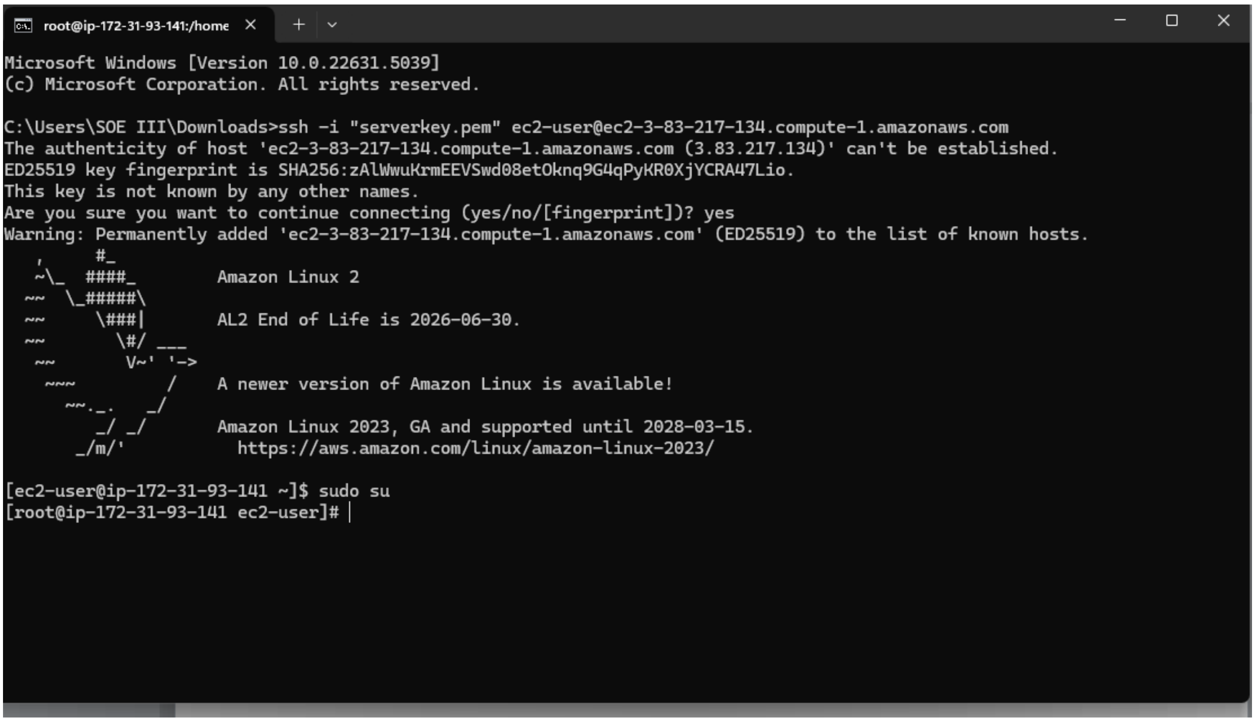
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is serverkey.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
   chmod 400 "serverkey.pem"
4. Connect to your instance using its Public DNS:
   ec2-3-83-217-134.compute-1.amazonaws.com

Example:

```
ssh -i "serverkey.pem" ec2-user@ec2-3-83-217-134.compute-1.amazonaws.com
```

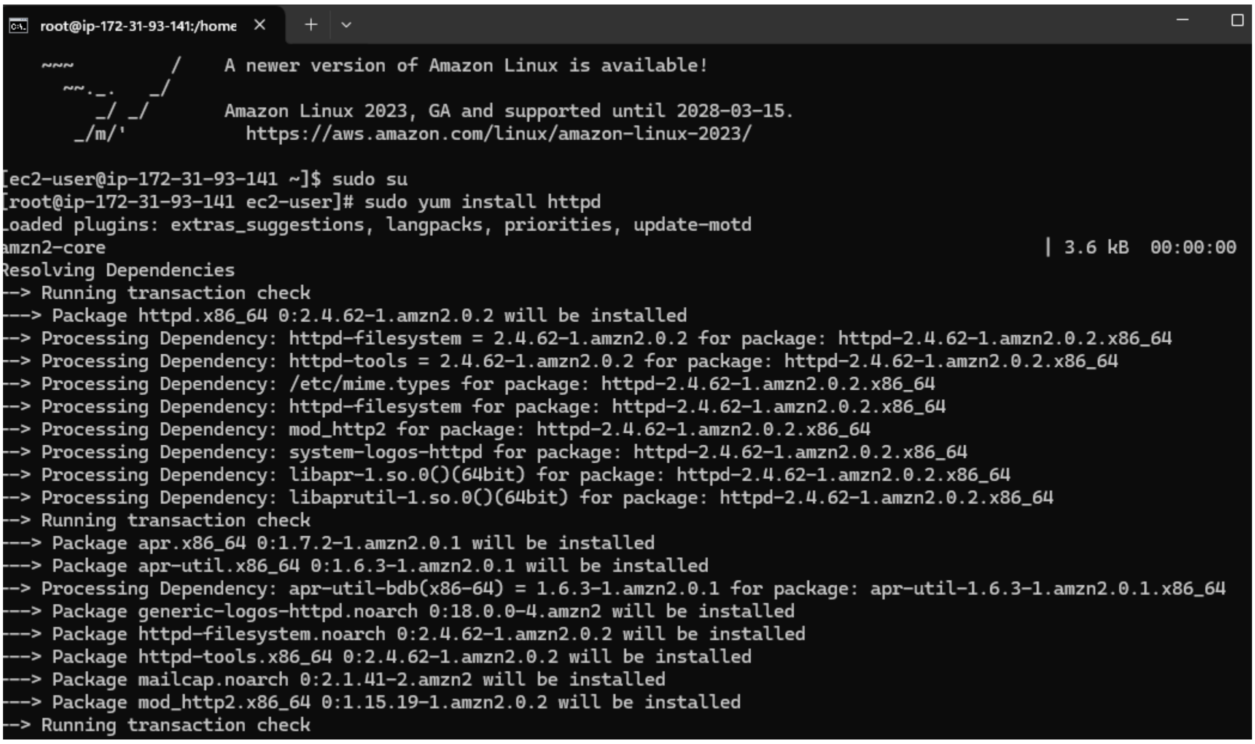
ⓘ **Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

To connect to superuser - type sudo su



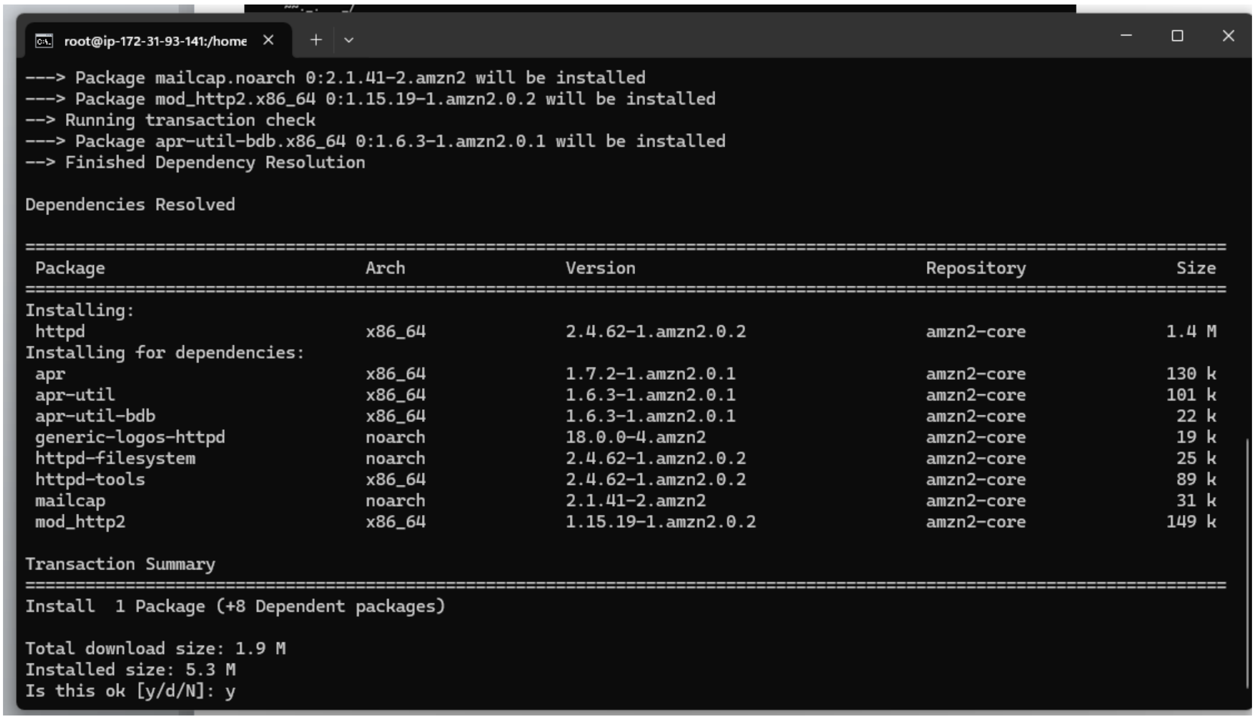
```
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SOE III\Downloads>ssh -i "serverkey.pem" ec2-user@ec2-3-83-217-134.compute-1.amazonaws.com
The authenticity of host 'ec2-3-83-217-134.compute-1.amazonaws.com (3.83.217.134)' can't be established.
ED25519 key fingerprint is SHA256:zAlWwuKrmEEVSwd08etOknq9G4qPyKR0XjYCRA47Lio.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-83-217-134.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2
  ~~  \_#####\
  ~~     \###|       AL2 End of Life is 2026-06-30.
  ~~       \#/ ___
   ~~       V~' '->
    ~~~         /    A newer version of Amazon Linux is available!
      ~~._.   _/
         _/ _/       Amazon Linux 2023, GA and supported until 2028-03-15.
       _/m/'           https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-93-141 ~]$ sudo su
[root@ip-172-31-93-141 ec2-user]# |
```

To access Apace web server - type sudo yum install httpd



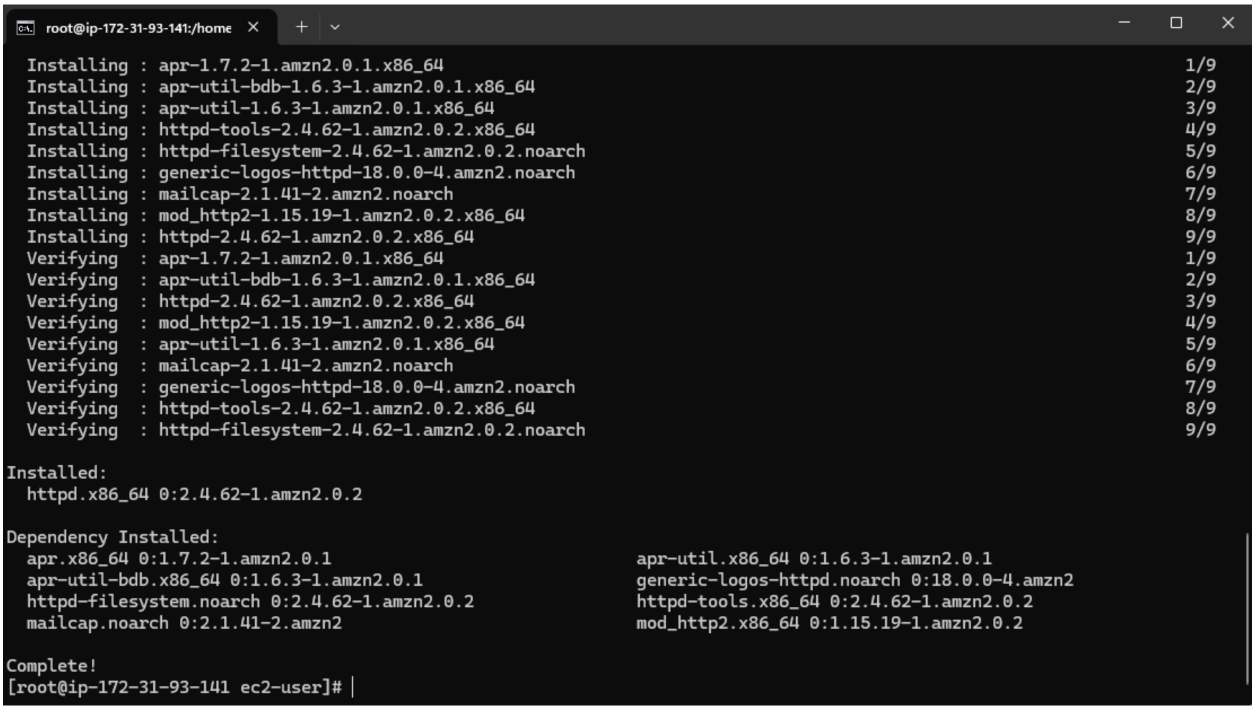
```
    ~~~         /    A newer version of Amazon Linux is available!
      ~~._.   _/
         _/ _/       Amazon Linux 2023, GA and supported until 2028-03-15.
       _/m/'           https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-93-141 ~]$ sudo su
[root@ip-172-31-93-141 ec2-user]# sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                          | 3.6 kB  00:00:00
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.62-1.amzn2.0.2 will be installed
--> Processing Dependency: httpd-filesystem = 2.4.62-1.amzn2.0.2 for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: httpd-tools = 2.4.62-1.amzn2.0.2 for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.62-1.amzn2.0.2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.2-1.amzn2.0.1 will be installed
---> Package apr-util.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.3-1.amzn2.0.1 for package: apr-util-1.6.3-1.amzn2.0.1.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2 will be installed
---> Package httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.2 will be installed
--> Running transaction check
```

This screen will appear - type y here



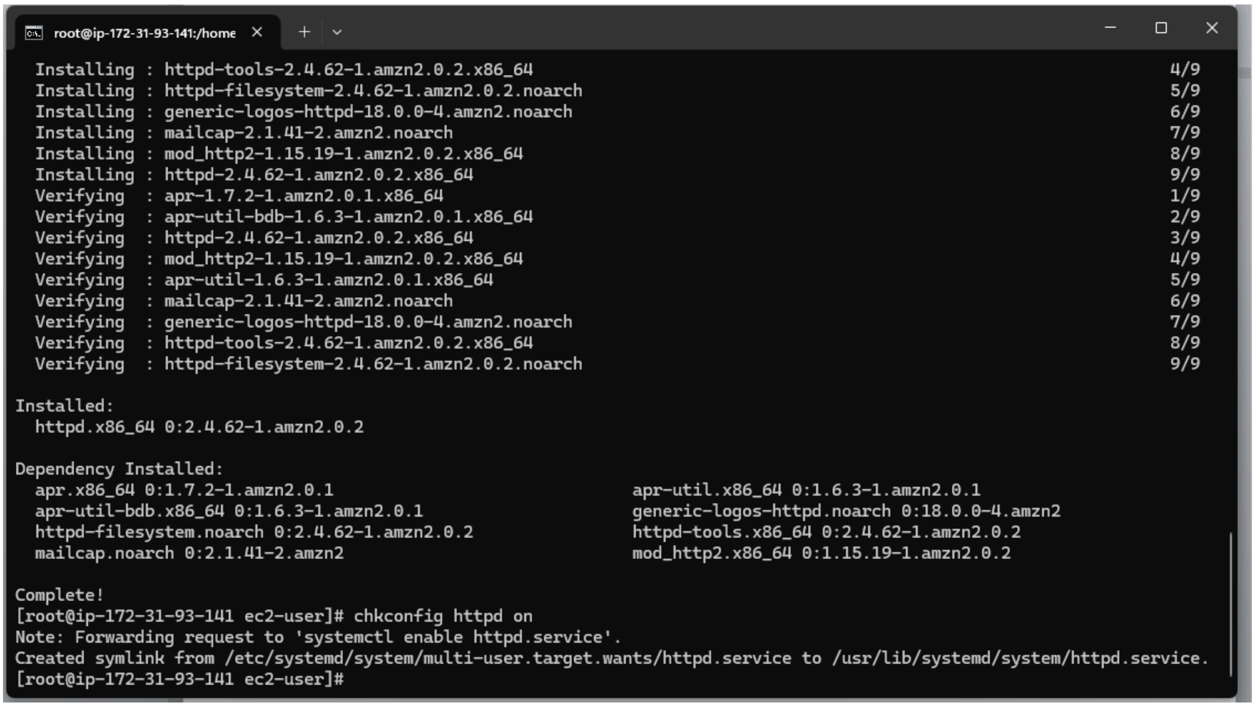
```
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.2 will be installed
--> Running transaction check
---> Package apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

========================================================================================================================
 Package                          Arch                Version                              Repository              Size
========================================================================================================================
Installing:
 httpd                            x86_64              2.4.62-1.amzn2.0.2                   amzn2-core             1.4 M
Installing for dependencies:
 apr                              x86_64              1.7.2-1.amzn2.0.1                    amzn2-core             130 k
 apr-util                         x86_64              1.6.3-1.amzn2.0.1                    amzn2-core             101 k
 apr-util-bdb                     x86_64              1.6.3-1.amzn2.0.1                    amzn2-core              22 k
 generic-logos-httpd              noarch              18.0.0-4.amzn2                       amzn2-core              19 k
 httpd-filesystem                 noarch              2.4.62-1.amzn2.0.2                   amzn2-core              25 k
 httpd-tools                      x86_64              2.4.62-1.amzn2.0.2                   amzn2-core              89 k
 mailcap                          noarch              2.1.41-2.amzn2                       amzn2-core              31 k
 mod_http2                        x86_64              1.15.19-1.amzn2.0.2                  amzn2-core             149 k

Transaction Summary
========================================================================================================================
Install  1 Package (+8 Dependent packages)

Total download size: 1.9 M
Installed size: 5.3 M
Is this ok [y/d/N]: y
```

Installation Completed



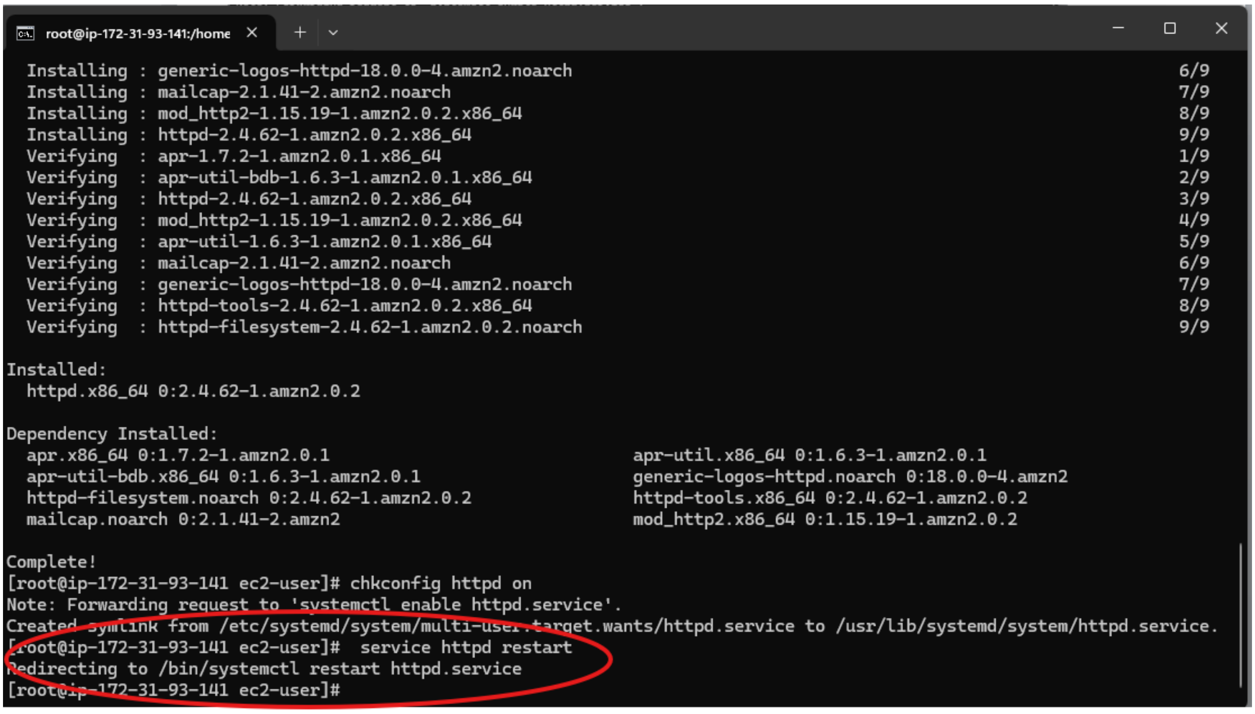
```
  Installing : apr-1.7.2-1.amzn2.0.1.x86_64                                                                         1/9
  Installing : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                                                2/9
  Installing : apr-util-1.6.3-1.amzn2.0.1.x86_64                                                                    3/9
  Installing : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                                                4/9
  Installing : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                                           5/9
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                            6/9
  Installing : mailcap-2.1.41-2.amzn2.noarch                                                                        7/9
  Installing : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                                                 8/9
  Installing : httpd-2.4.62-1.amzn2.0.2.x86_64                                                                      9/9
  Verifying  : apr-1.7.2-1.amzn2.0.1.x86_64                                                                         1/9
  Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                                                2/9
  Verifying  : httpd-2.4.62-1.amzn2.0.2.x86_64                                                                      3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                                                 4/9
  Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                                                    5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                                        6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                            7/9
  Verifying  : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                                                8/9
  Verifying  : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                                           9/9

Installed:
  httpd.x86_64 0:2.4.62-1.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2.0.1                              apr-util.x86_64 0:1.6.3-1.amzn2.0.1
  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1                     generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2                httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2
  mailcap.noarch 0:2.1.41-2.amzn2                             mod_http2.x86_64 0:1.15.19-1.amzn2.0.2

Complete!
[root@ip-172-31-93-141 ec2-user]#
```

To enable httpd service - type chkconfig httpd on



```
  Installing : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                         4/9
  Installing : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                    5/9
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch                                     6/9
  Installing : mailcap-2.1.41-2.amzn2.noarch                                                 7/9
  Installing : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                          8/9
  Installing : httpd-2.4.62-1.amzn2.0.2.x86_64                                               9/9
  Verifying  : apr-1.7.2-1.amzn2.0.1.x86_64                                                  1/9
  Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                         2/9
  Verifying  : httpd-2.4.62-1.amzn2.0.2.x86_64                                               3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                          4/9
  Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                             5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                 6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                     7/9
  Verifying  : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                         8/9
  Verifying  : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                    9/9

Installed:
  httpd.x86_64 0:2.4.62-1.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2.0.1                              apr-util.x86_64 0:1.6.3-1.amzn2.0.1
  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1                     generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2                httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2
  mailcap.noarch 0:2.1.41-2.amzn2                             mod_http2.x86_64 0:1.15.19-1.amzn2.0.2

Complete!
[root@ip-172-31-93-141 ec2-user]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-93-141 ec2-user]#
```

Restart the service – type service httpd restart

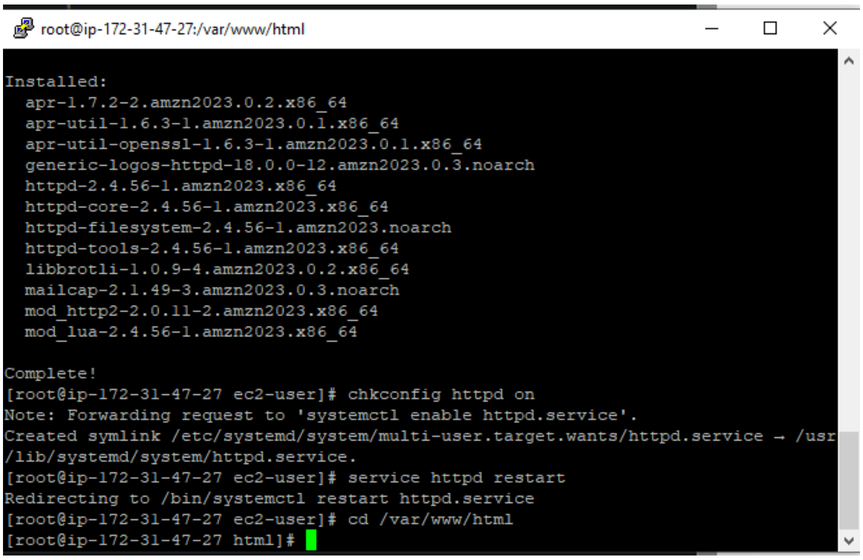


```
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch                                     6/9
  Installing : mailcap-2.1.41-2.amzn2.noarch                                                 7/9
  Installing : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                          8/9
  Installing : httpd-2.4.62-1.amzn2.0.2.x86_64                                               9/9
  Verifying  : apr-1.7.2-1.amzn2.0.1.x86_64                                                  1/9
  Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                         2/9
  Verifying  : httpd-2.4.62-1.amzn2.0.2.x86_64                                               3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                          4/9
  Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                             5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                 6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                     7/9
  Verifying  : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                         8/9
  Verifying  : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                    9/9

Installed:
  httpd.x86_64 0:2.4.62-1.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2.0.1                              apr-util.x86_64 0:1.6.3-1.amzn2.0.1
  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1                     generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2                httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2
  mailcap.noarch 0:2.1.41-2.amzn2                             mod_http2.x86_64 0:1.15.19-1.amzn2.0.2

Complete!
[root@ip-172-31-93-141 ec2-user]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-93-141 ec2-user]#  service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-93-141 ec2-user]#
```

We are going to create a html file using vi editor

For that first we have to go to aws default location

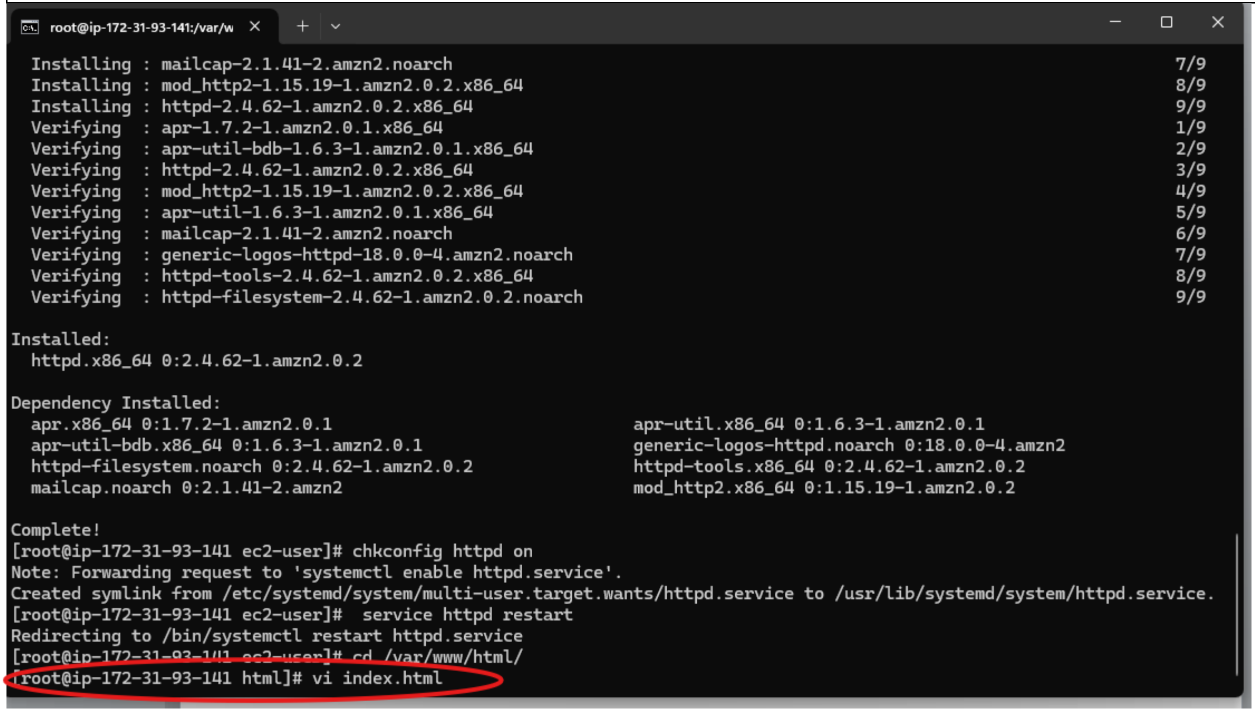
cd /var/www/html



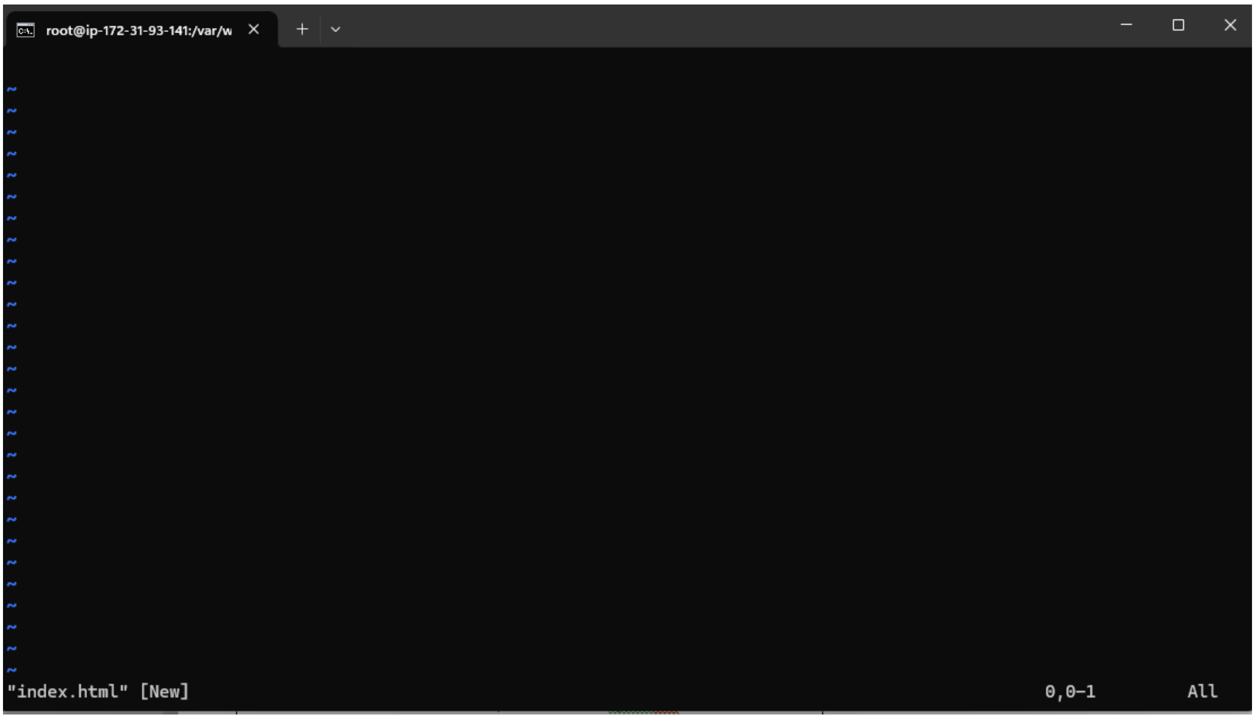
```
Installed:
  apr-1.7.2-2.amzn2023.0.2.x86_64
  apr-util-1.6.3-1.amzn2023.0.1.x86_64
  apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  httpd-2.4.56-1.amzn2023.x86_64
  httpd-core-2.4.56-1.amzn2023.x86_64
  httpd-filesystem-2.4.56-1.amzn2023.noarch
  httpd-tools-2.4.56-1.amzn2023.x86_64
  libbrotli-1.0.9-4.amzn2023.0.2.x86_64
  mailcap-2.1.49-3.amzn2023.0.3.noarch
  mod_http2-2.0.11-2.amzn2023.x86_64
  mod_lua-2.4.56-1.amzn2023.x86_64

Complete!
[root@ip-172-31-47-27 ec2-user]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr
/lib/systemd/system/httpd.service.
[root@ip-172-31-47-27 ec2-user]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-47-27 ec2-user]# cd /var/www/html
[root@ip-172-31-47-27 html]# 
```

Create html file using vi editor

Type vi index.html(file name)

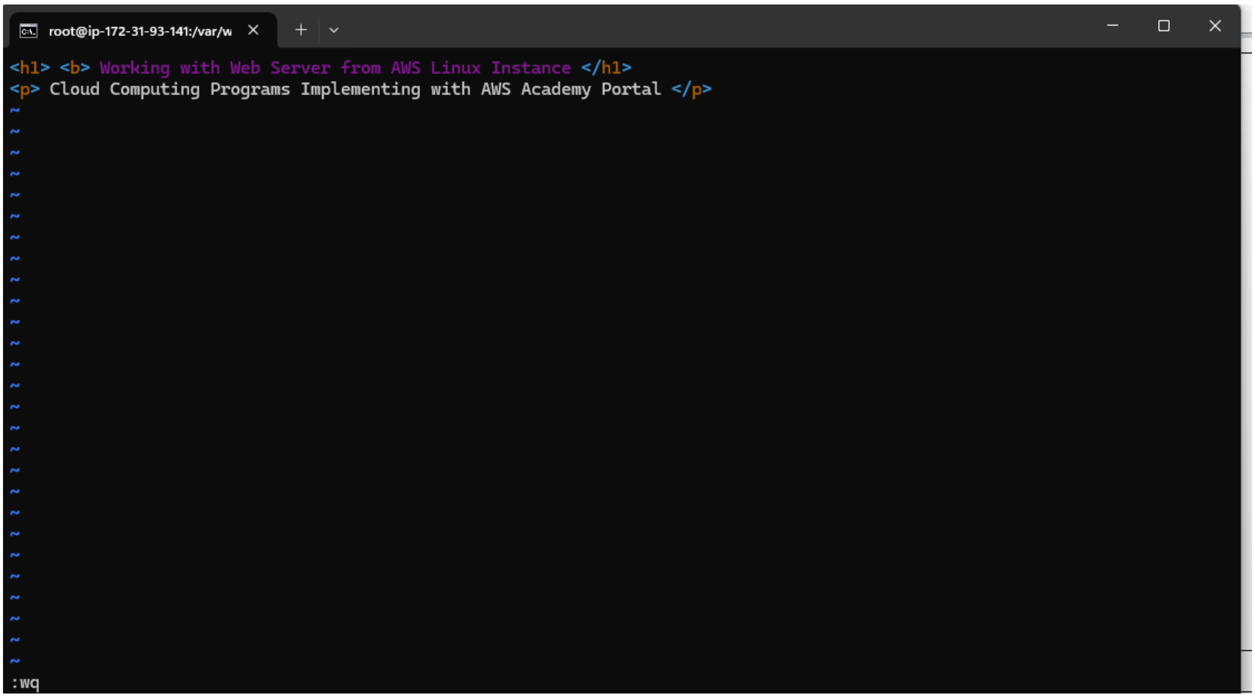


```
  Installing : mailcap-2.1.41-2.amzn2.noarch                                          7/9
  Installing : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                   8/9
  Installing : httpd-2.4.62-1.amzn2.0.2.x86_64                                        9/9
  Verifying  : apr-1.7.2-1.amzn2.0.1.x86_64                                           1/9
  Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                  2/9
  Verifying  : httpd-2.4.62-1.amzn2.0.2.x86_64                                        3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                   4/9
  Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                      5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                          6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                              7/9
  Verifying  : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                  8/9
  Verifying  : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                             9/9

Installed:
  httpd.x86_64 0:2.4.62-1.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2.0.1                              apr-util.x86_64 0:1.6.3-1.amzn2.0.1
  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1                     generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2                httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2
  mailcap.noarch 0:2.1.41-2.amzn2                             mod_http2.x86_64 0:1.15.19-1.amzn2.0.2

Complete!
[root@ip-172-31-93-141 ec2-user]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-93-141 ec2-user]#  service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-93-141 ec2-user]# cd /var/www/html/
[root@ip-172-31-93-141 html]# vi index.html
```



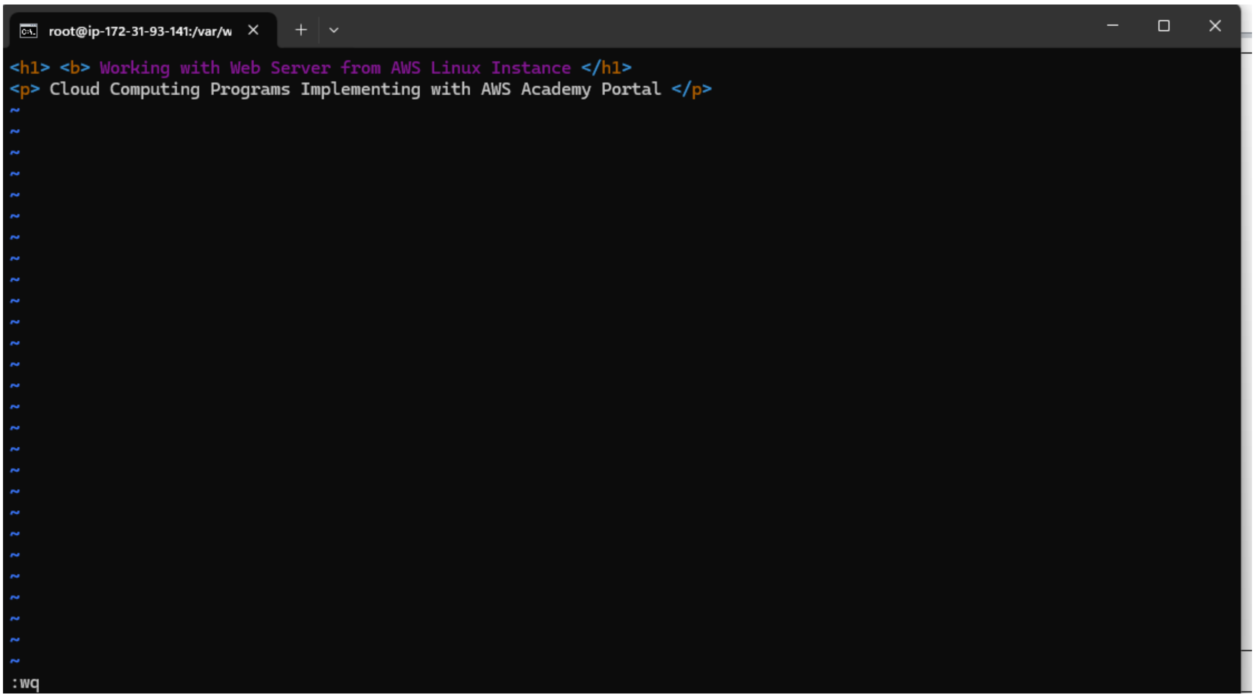
```
"index.html" [New]                                                              0,0-1         All
```

To type html tags first press i so that we can type html programs



```
<h1> <b> Working with Web Server from AWS Linux Instance </h1>
<p> Cloud Computing Programs Implementing with AWS Academy Portal </p>
:wq
```

To save and exit from vi editor press esc and type :wq



```
<h1> <b> Working with Web Server from AWS Linux Instance </h1>
<p> Cloud Computing Programs Implementing with AWS Academy Portal </p>
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:wq
```
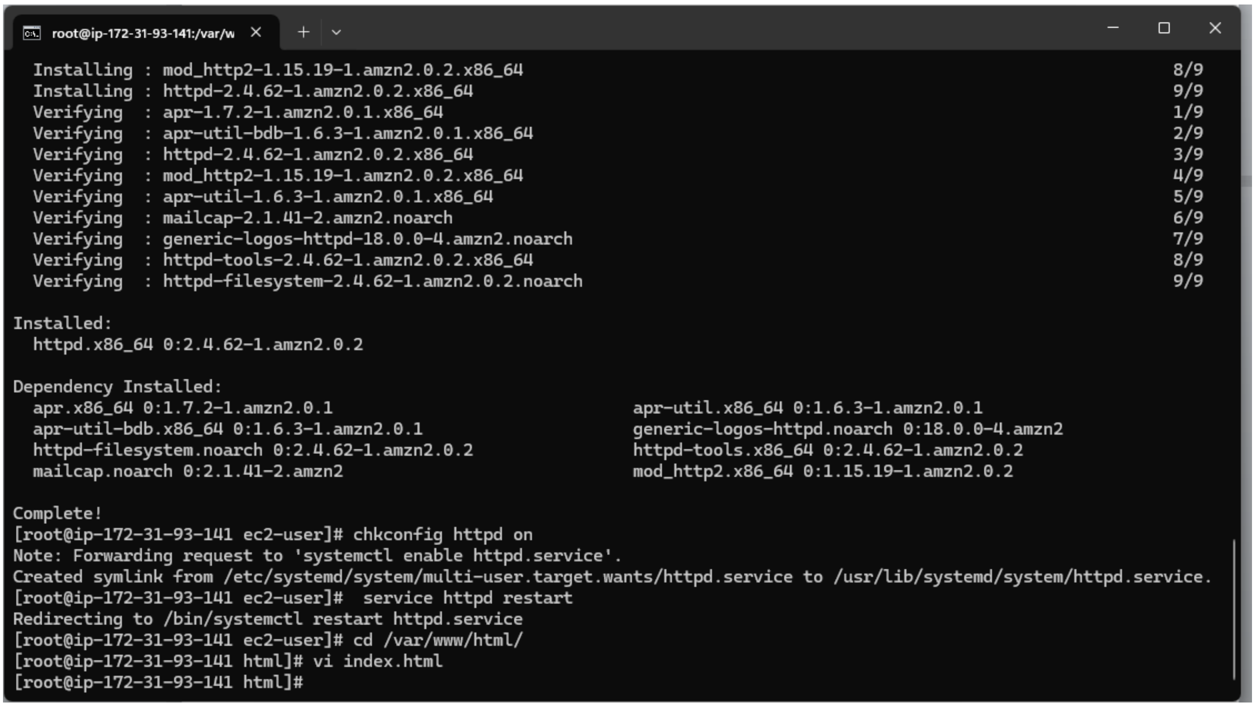
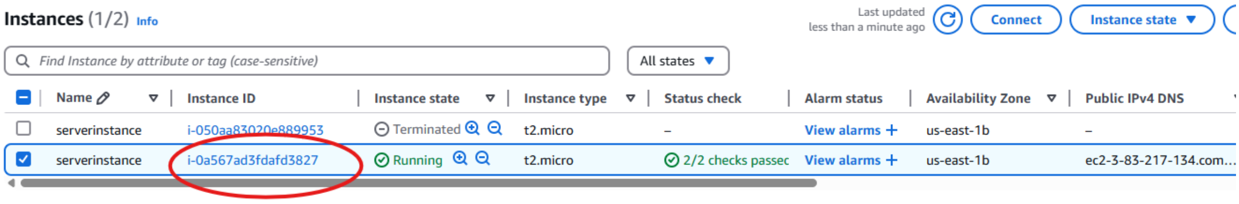

Now the program is saved



```
  Installing : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                         8/9
  Installing : httpd-2.4.62-1.amzn2.0.2.x86_64                                              9/9
  Verifying  : apr-1.7.2-1.amzn2.0.1.x86_64                                                 1/9
  Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                        2/9
  Verifying  : httpd-2.4.62-1.amzn2.0.2.x86_64                                              3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.2.x86_64                                         4/9
  Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                            5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                    7/9
  Verifying  : httpd-tools-2.4.62-1.amzn2.0.2.x86_64                                        8/9
  Verifying  : httpd-filesystem-2.4.62-1.amzn2.0.2.noarch                                   9/9

Installed:
  httpd.x86_64 0:2.4.62-1.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2.0.1                            apr-util.x86_64 0:1.6.3-1.amzn2.0.1
  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1                   generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.62-1.amzn2.0.2              httpd-tools.x86_64 0:2.4.62-1.amzn2.0.2
  mailcap.noarch 0:2.1.41-2.amzn2                           mod_http2.x86_64 0:1.15.19-1.amzn2.0.2

Complete!
[root@ip-172-31-93-141 ec2-user]# chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-93-141 ec2-user]#  service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-93-141 ec2-user]# cd /var/www/html/
[root@ip-172-31-93-141 html]# vi index.html
[root@ip-172-31-93-141 html]#
```

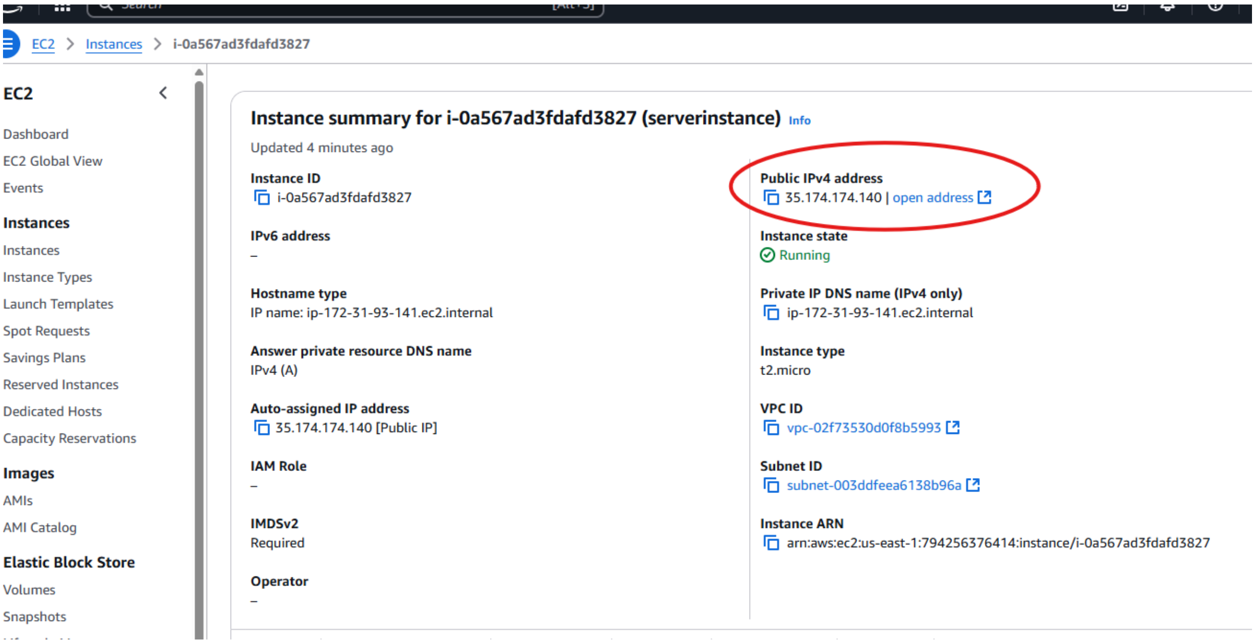
To access the web server goto aws management console→instance→click on instance and find summery details.

Copy the public IPv4 address



Instances (1/2) Info

▣	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
□	serverinstance	i-050aa83020e889953	Terminated	t2.micro	–	View alarms +	us-east-1b	–
☑	serverinstance	i-0a567ad3fdafd3827	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	ec2-3-83-217-134.com...


EC2 > Instances > i-0a567ad3fdafd3827

EC2

Dashboard
EC2 Global View
Events

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations

Images
AMIs
AMI Catalog

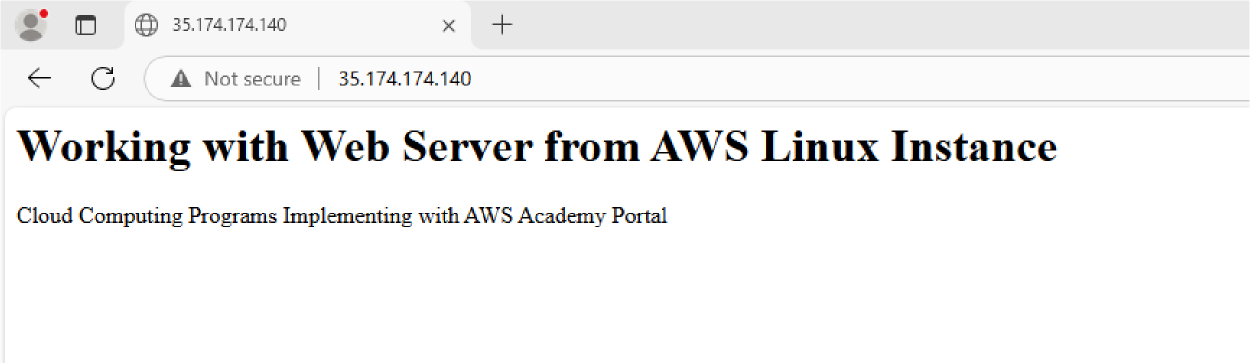
Elastic Block Store
Volumes
Snapshots

Instance summary for i-0a567ad3fdafd3827 (serverinstance) Info

Updated 4 minutes ago

Instance ID i-0a567ad3fdafd3827	**Public IPv4 address** 35.174.174.140 | open address
IPv6 address –	**Instance state** Running
Hostname type IP name: ip-172-31-93-141.ec2.internal	**Private IP DNS name (IPv4 only)** ip-172-31-93-141.ec2.internal
Answer private resource DNS name IPv4 (A)	**Instance type** t2.micro
Auto-assigned IP address 35.174.174.140 [Public IP]	**VPC ID** vpc-02f73530d0f8b5993
IAM Role –	**Subnet ID** subnet-003ddfeea6138b96a
IMDSv2 Required	**Instance ARN** arn:aws:ec2:us-east-1:794256376414:instance/i-0a567ad3fdafd3827
Operator –	

Paste in the Ipv4 address in browser Url bar


35.174.174.140

Not secure | 35.174.174.140

Working with Web Server from AWS Linux Instance

Cloud Computing Programs Implementing with AWS Academy Portal