

TASK 2: Install a web server on the EC2 instance

Subtask 1: Install a web server on the EC2 instance

1. To check Any updates :
`Sudo yum update -y`
2. To install Apache web server
`Sudo yum install httpd -y`

```
[ec2-user@ip-172-31-38-234 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
No packages marked for update
[ec2-user@ip-172-31-38-234 ~]$ sudo yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.58-1.amzn2 will be installed
--> Processing Dependency: httpd filesystem = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd-tools = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.2-1.amzn2 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
```

Subtask 2: Check that any PC can access your Webpage .

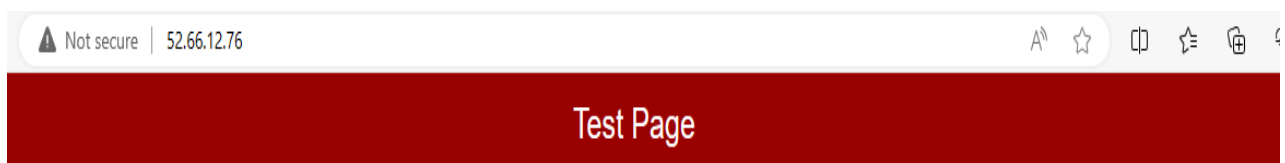
- To start apache server use command :

Sudo systemctl start httpd

- To start apache server on system boot use the following command:

Sudo systemctl enable httpd

- Now Go to any browser and type that Ip address to check whether Webpage is running or not.



This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you could send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server.



Subtask 3: To show Ip address on the web page use the following command:

1. Create index.html file inside /var/www/html

```
[ec2-user@ip-172-31-34-157 ~]$ sudo touch /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$
```

2. Change permission so we can read write and execute index.html

```
ec2-user@ip-172-31-34-157:~
[ec2-user@ip-172-31-34-157 ~]$ sudo chmod 744 /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$
```

3. Add Ip address on the index.html using the following command:

```
echo "<h1>IP ADDRESS: " > /var/www/html/index.html
```

```
hostname -f >> /var/www/html/index.html
```

```
echo "</h1>" >> /var/www/html/index.html
```

```
ec2-user@ip-172-31-34-157:~
[ec2-user@ip-172-31-34-157 ~]$ echo "<h1>IP ADDRESS: " > /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$ hostname -f >> /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$ echo >> /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$
[ec2-user@ip-172-31-34-157 ~]$ echo "</h1>" >> /var/www/html/index.html
[ec2-user@ip-172-31-34-157 ~]$
```