Assignment Part-5

1. Assignment 1: - How to upload HTML web pages on Apache2 web server in EC-2 Instance? Please justify with step-by-step answers.

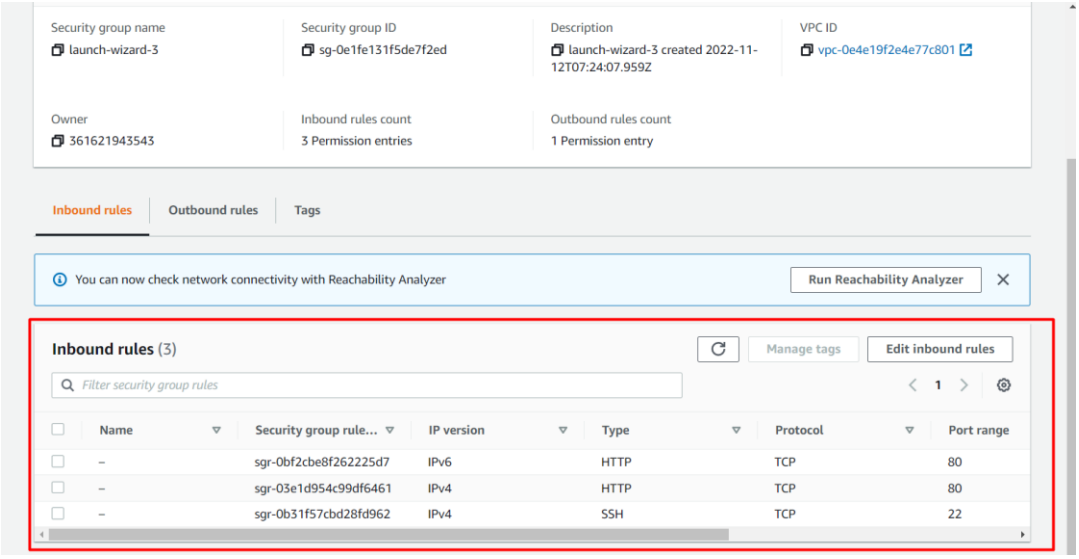
   *** Launch an EC2 instance ***
   -Choose Instance Type
   -Configure Instance
   -Add Storage
   -Configure Security Group
   -Create a new security group' and add HTTP
   -Review and launch.

   *** Install a Apache2 Web Server EC2 instance ***
   -Elevate your privileges
   -Update all of the packages on the instance
   -Install an apache2 webserver
   -Start the webserver
   -Configure the web server to restart if it gets stopped

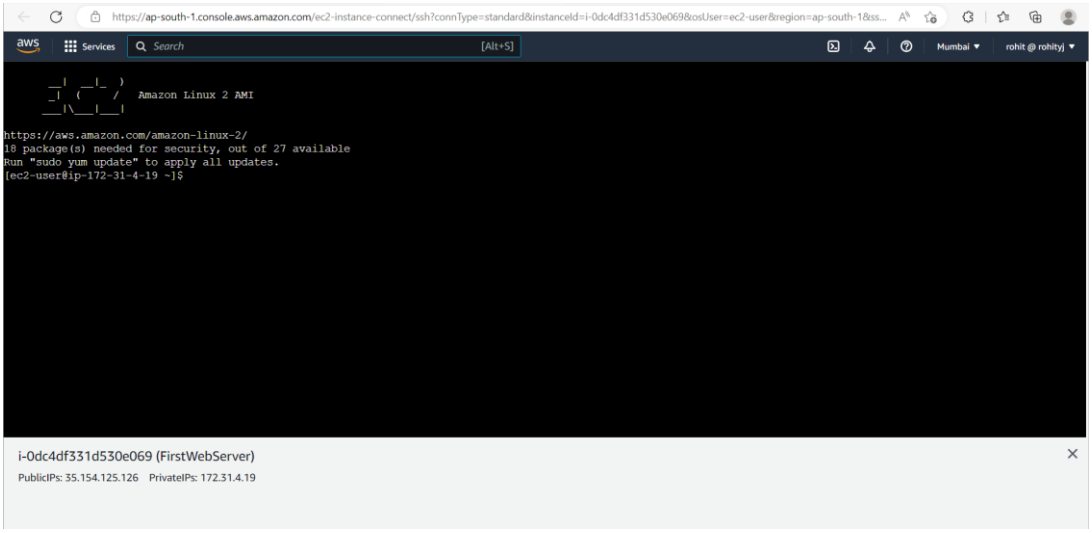
   *** Add a static HTML file ***
   -Navigate to the directory
   -Manually create an index.html file in this directory
   -Add valid html to the file
   -Make sure that the file has content

1) Updating Security Group

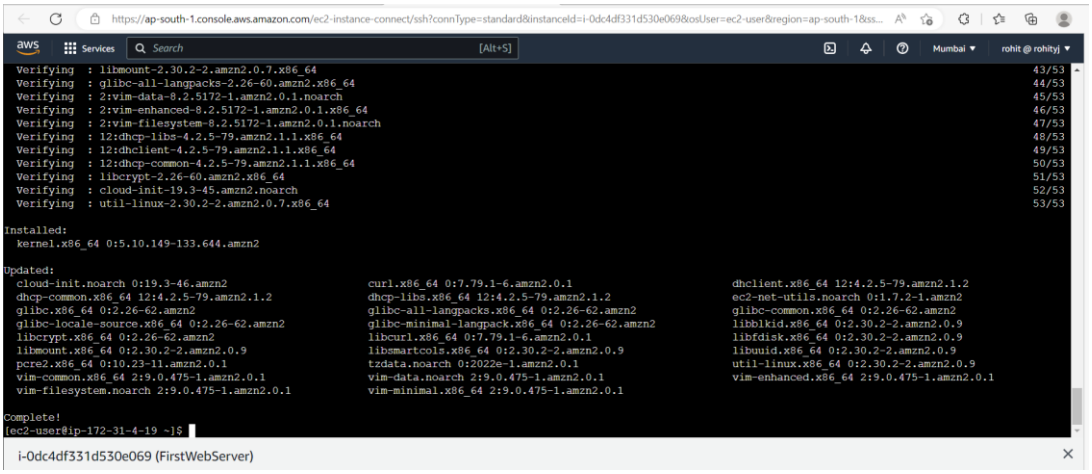
- In this step, you will choose the type of traffic your “virtual laptop” will allow from the outside.
- You need to allow 2 types of traffic – SSH (Login to Virtual Laptop) & HTTP (To View our web pages through the browser).



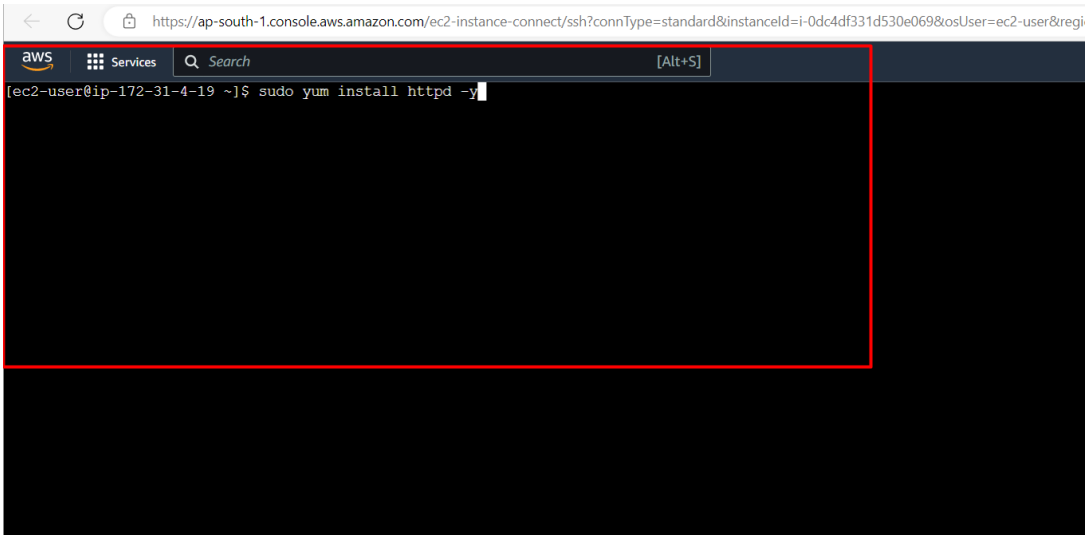
➔ Connect EC2 instance



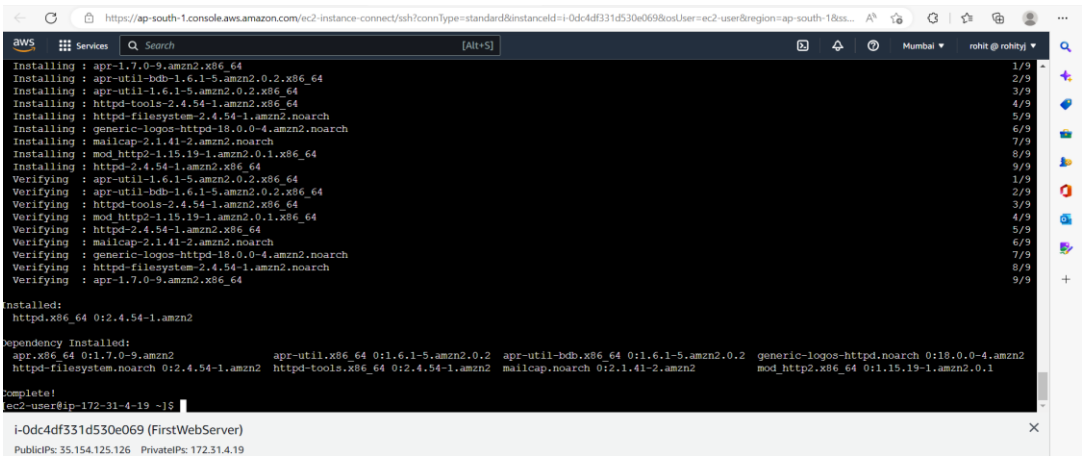
➔ Update all of the packages on the instance
yum update -y



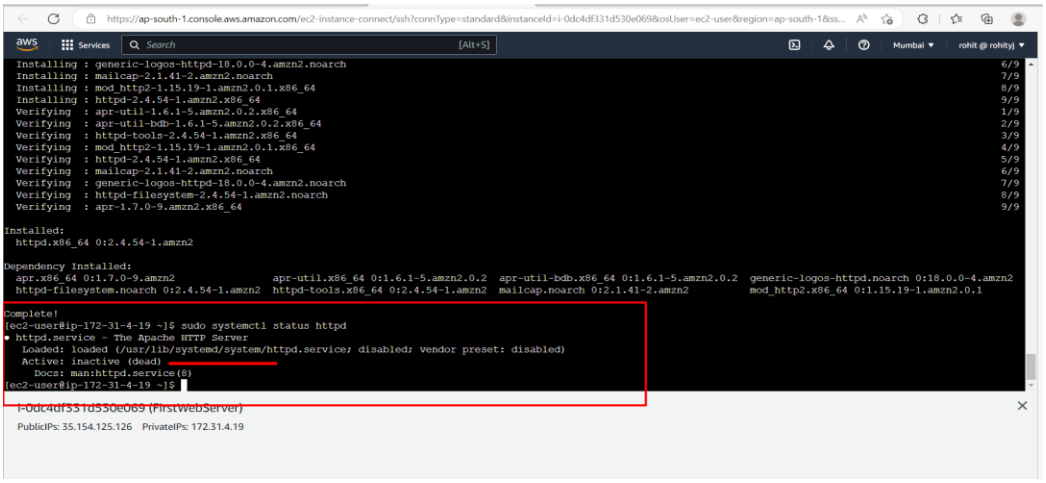
➔ Install an Apache webserver



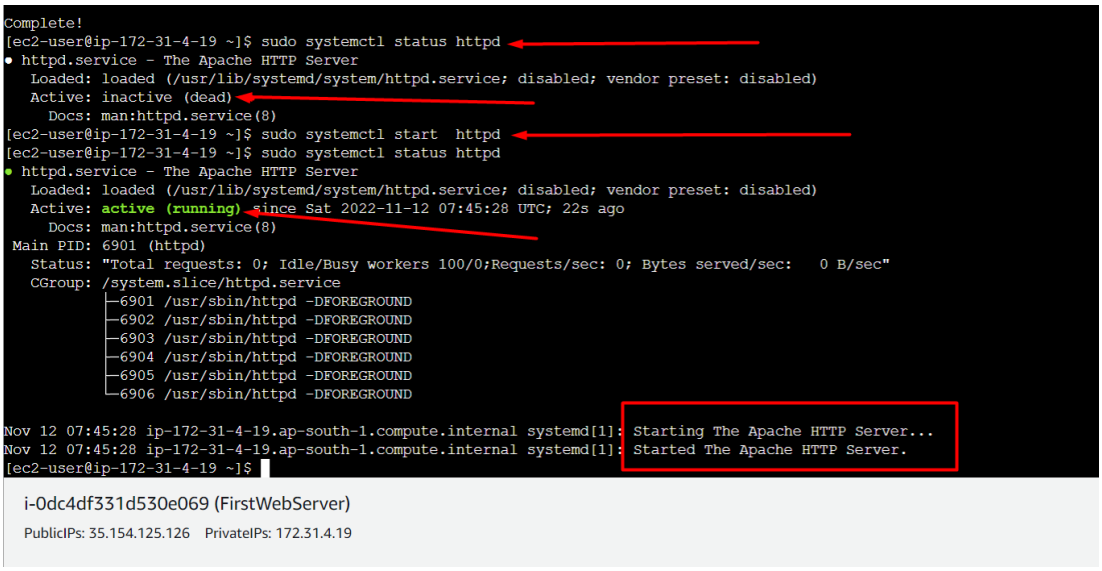
➔ yum install httpd -y

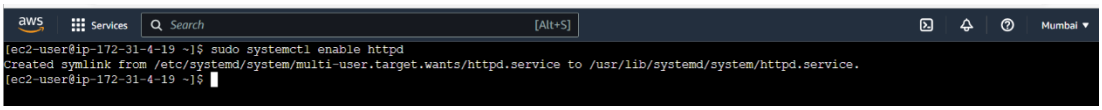


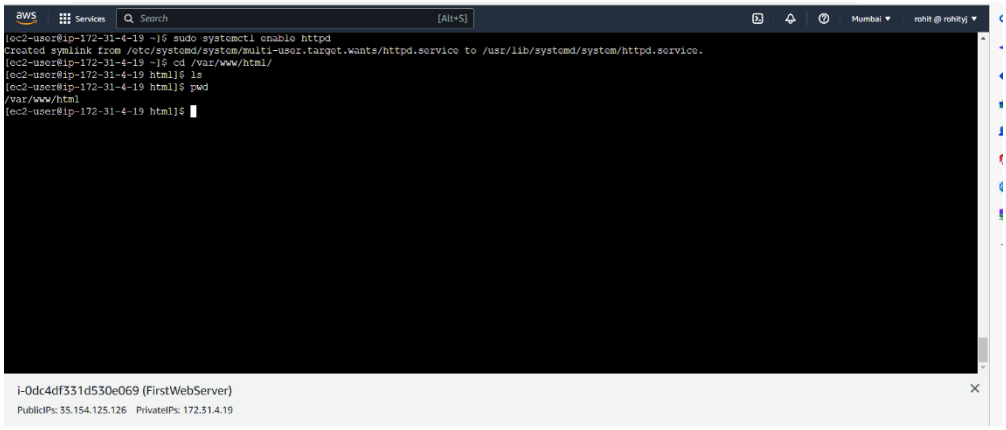
➔ Check the web server status
sudo systemctl status httpd



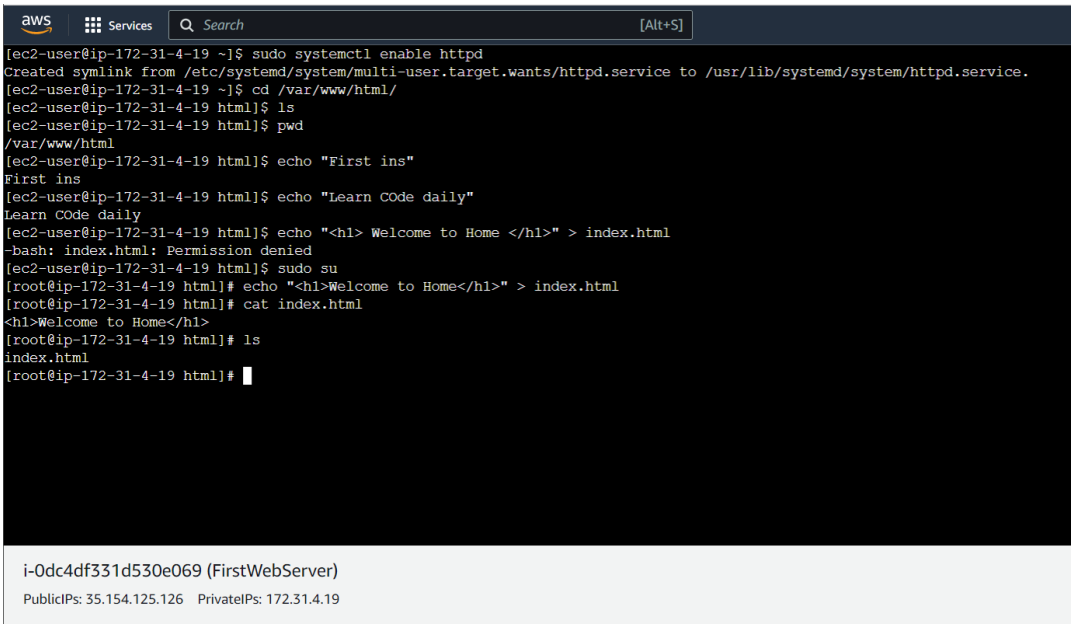
➔ Start the webserver
sudo systemctl start httpd

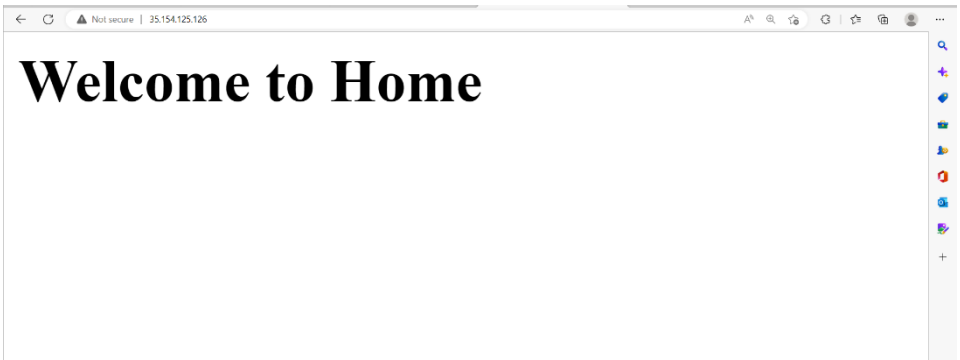






➔ Navigate to the directory
➔ create an index.html file in this directory





2. Assignment 2: Create readfile.sh in which you can read the information of PWD like size, permission, date time etc.

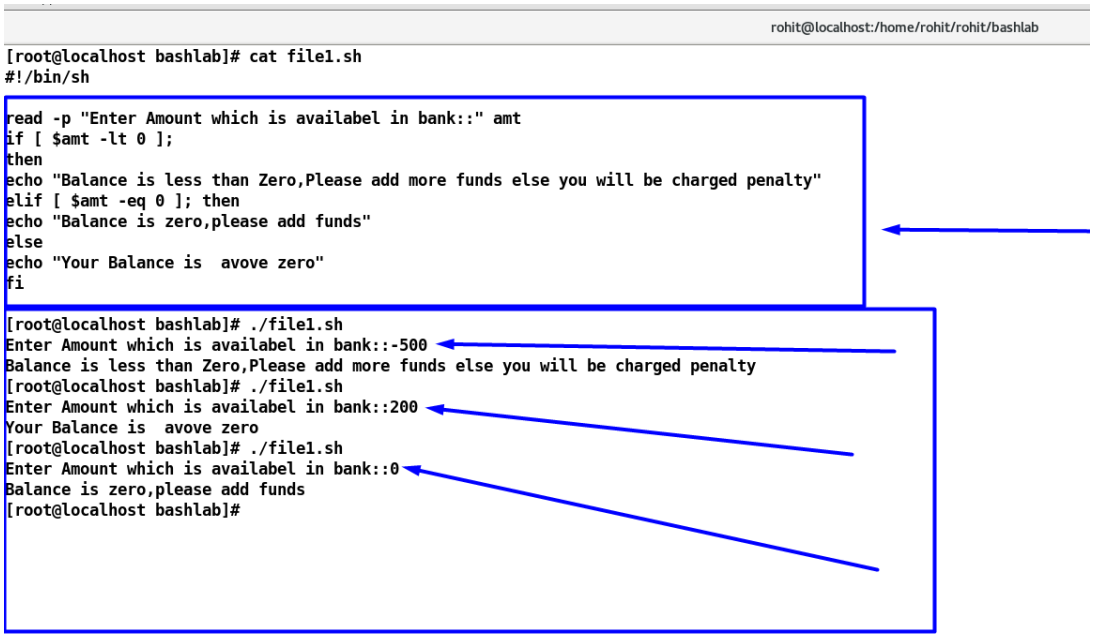

```
[root@localhost bashlab]# nano readfile.sh
[root@localhost bashlab]# ./readfile.sh
/home/rohit/rohit/bashlab
Sun Nov 20 16:09:09 IST 2022
user    0m0.00s
sys     0m0.00s

ls: cannot access first1.sh: No such file or directory

-rwxr-xr-x. 1 root root 289 Nov 20 15:51 file1.sh
```

3. Assignment 3: Take an input of name from user and print Have a great day ahead {name}

4. Assignment 4: Let's take a scenario of fintech app program in which we want to have three separate outputs for 3 different situations:

   - The balance is less than zero
   - The balance is zero
   - The balance is above zero

   For instance, in the following program, use the if, elif, else statements to display different outputs in different scenarios: Use "if" condition to check if the balance is less than zero. If this condition evaluates to true, display the message using the echo command: "Balance is less than zero, please add more funds else you will be charged penalty". If the above condition does not match, then use "elif" condition to check if the balance is equal to zero. If it evaluates to true, display the message: Balance is zero, please add funds If none of the above condition matches, use the "else" condition to display the: Your balance is above zero.



5. Assignment 5: Debug and define briefly about the following program: -
   #!/bin/bash # Print a message about disk usage.
   space_free=$(df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//')
   case $space_free in
   [1-5]*)
   echo Plenty of disk space available
   [6-7]*)
   echo There could be a problem in the near future
   8*)
   echo Maybe we should look at clearing out old files
   9*) echo We could have a serious problem on our hands soon
   *)
   echo Something is not quite right here
   ;;
   Esac