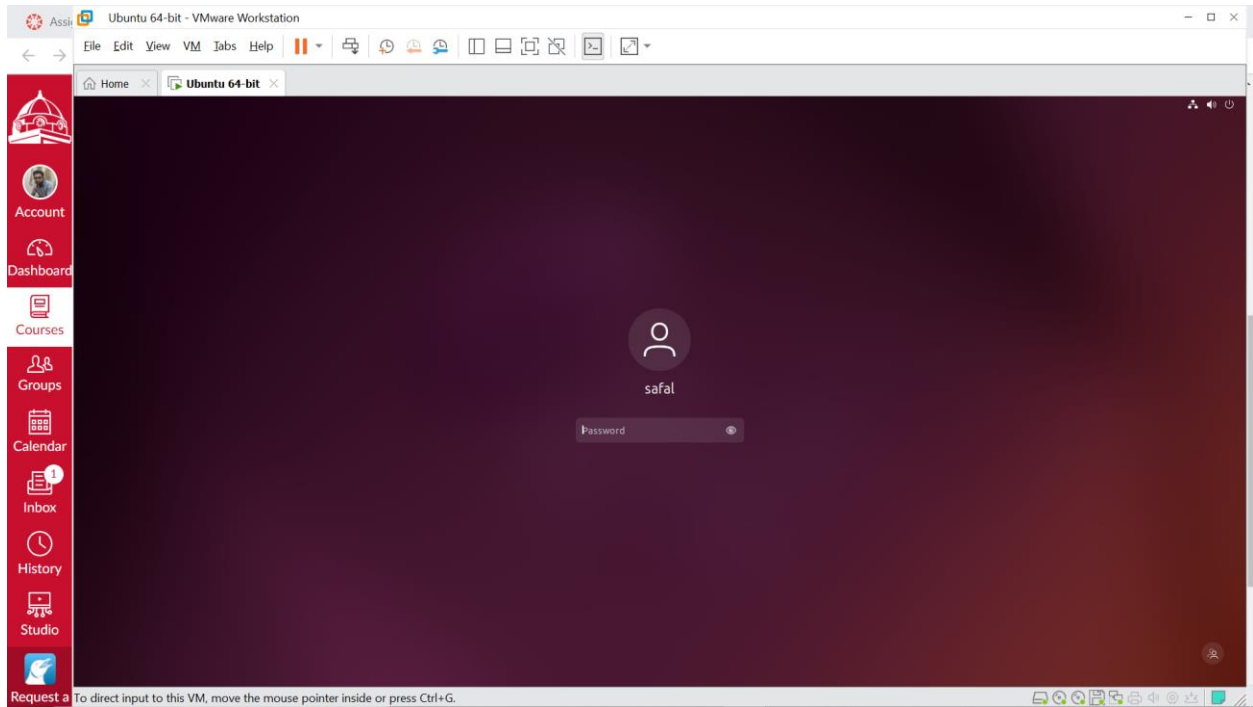
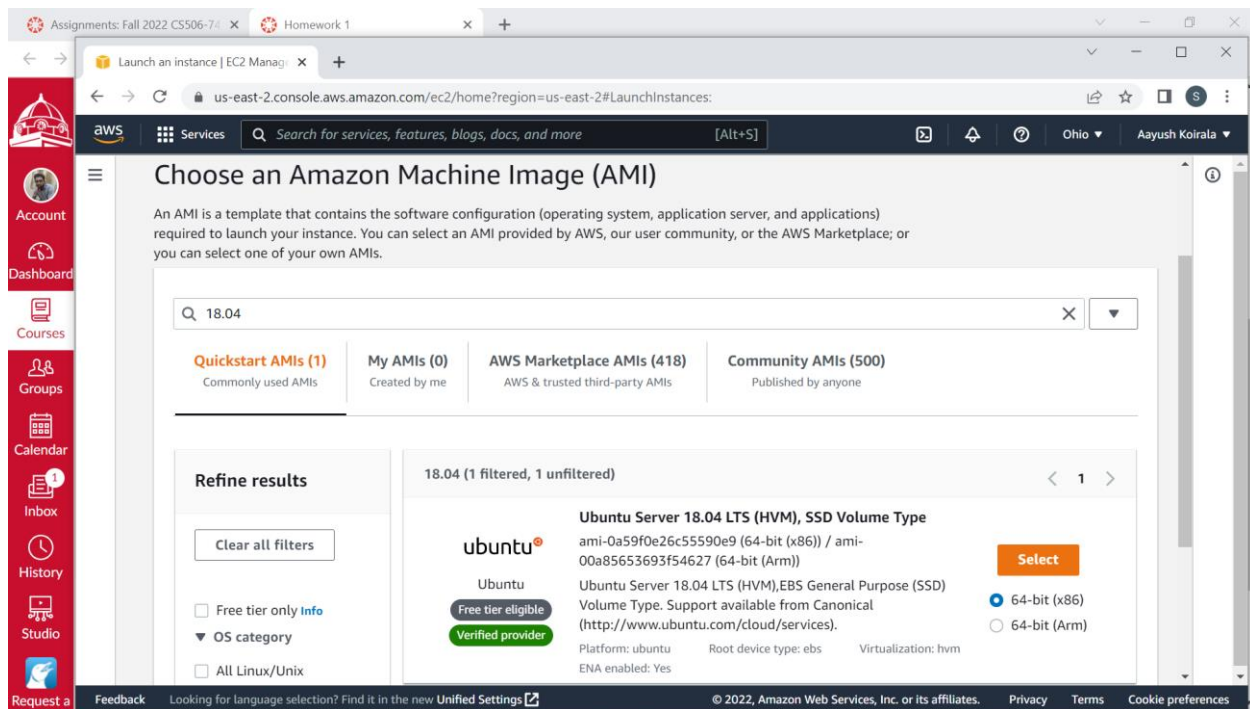


**Create your AWS EC2 Ubuntu virtual machine and access it by using SSH from your local Linux virtual machine (no PuTTY).**

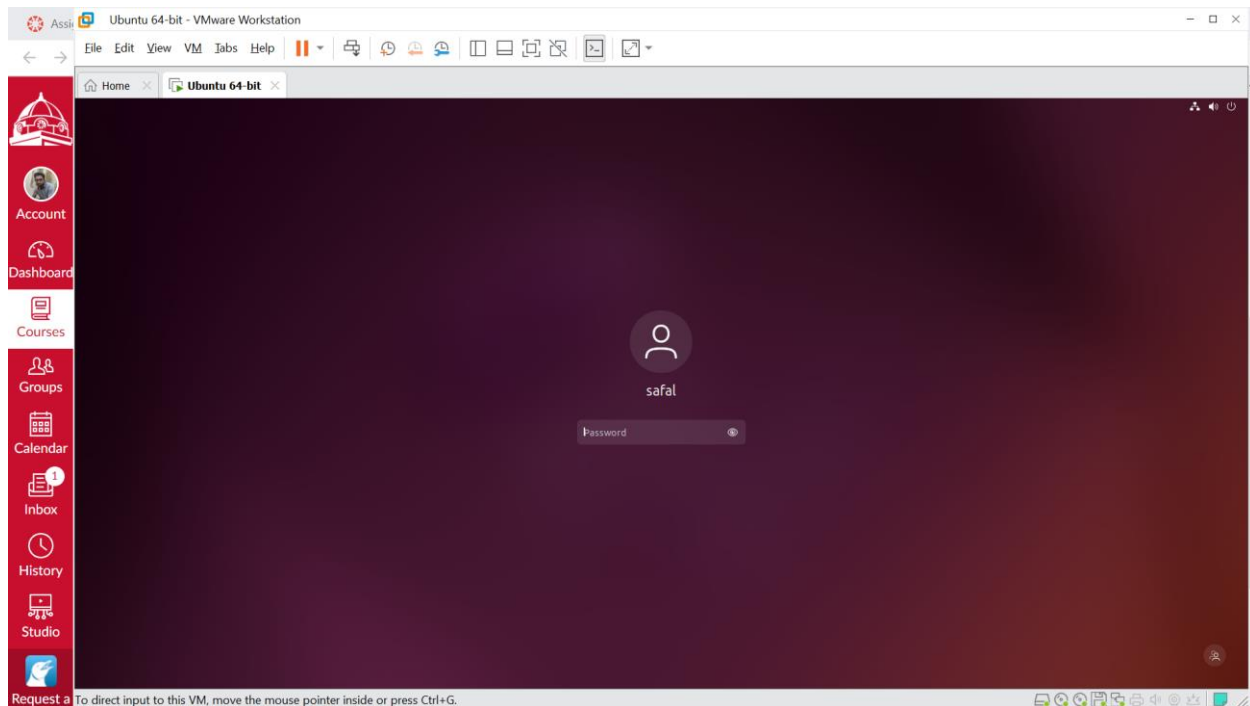
1. Install VirtualBox or VMWare on your local laptop/PC.
2. Install Ubuntu 18.04 Virtual Machine on your local laptop/PC.



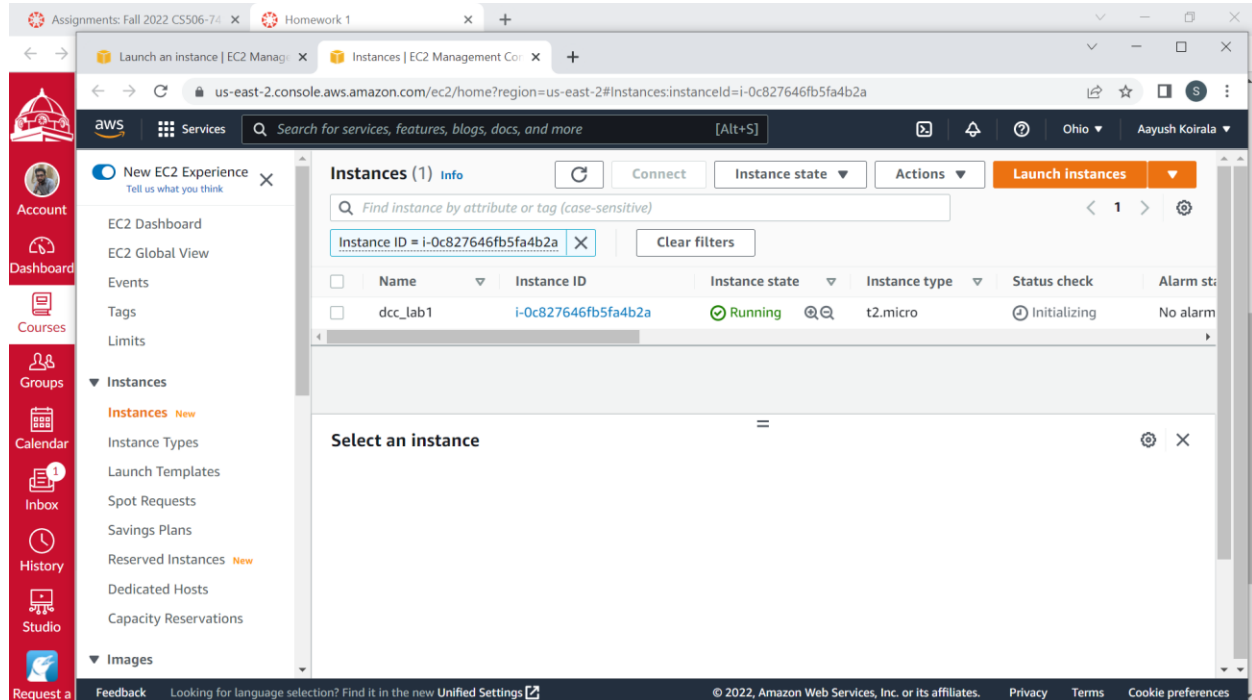
3. Create your AWS EC2 Ubuntu virtual machine and access it by using SSH from your local Linux virtual machine (no PuTTY).



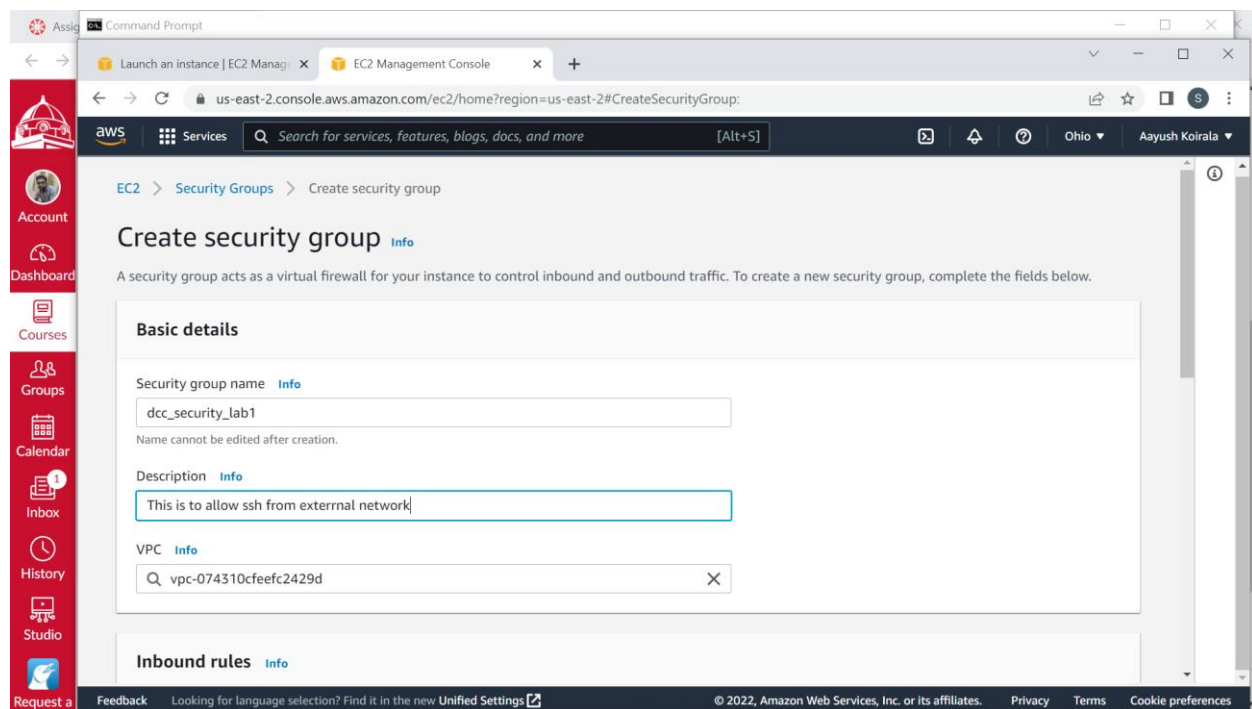
- Install an ubuntu Virtual Machine on your computer.



- Install an ubuntu EC2 instance on AWS cloud.

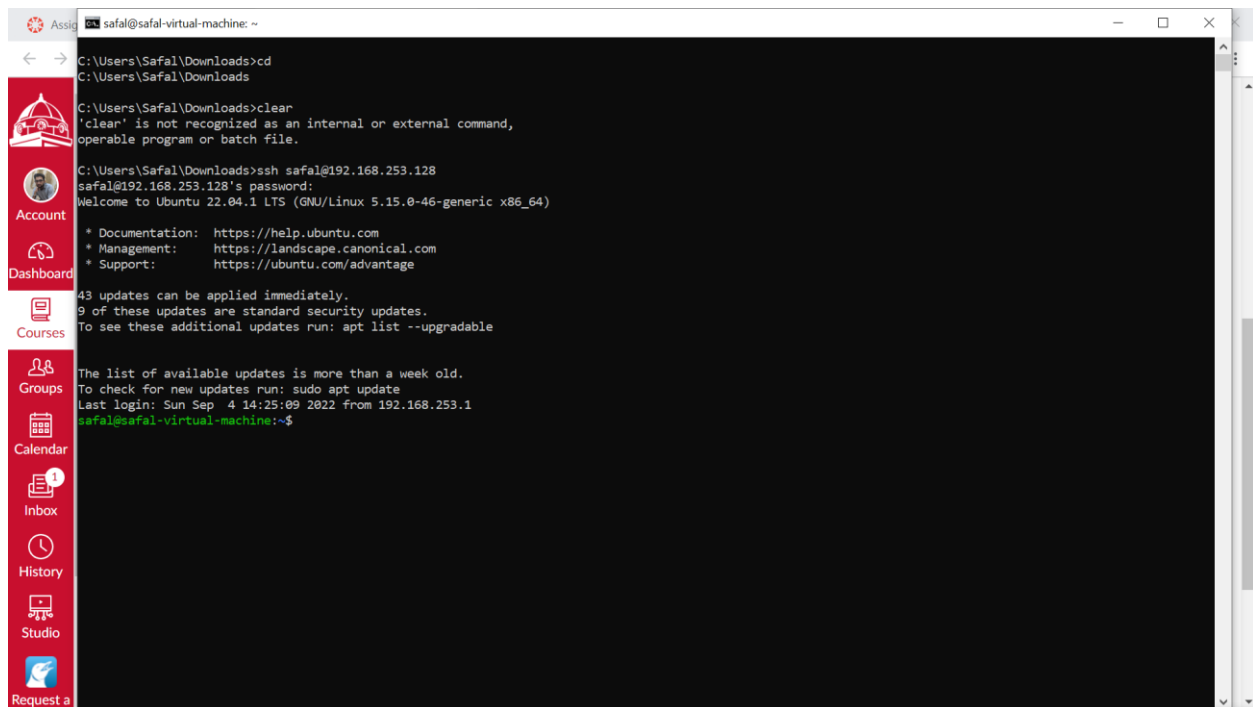


- Access the ubuntu EC2 instance from the ubuntu Virtual Machine on your computer by using SSH command.



Ubuntu vmware virtual machine IP : 192.168.253.128

Accessing Vmware virtual machine from local cmd



The screenshot shows a Windows command prompt window titled "safal@safal-virtual-machine: ~". The user is in the directory "C:\Users\Safal\Downloads". They attempt to run "clear", which fails with the message "'clear' is not recognized as an internal or external command, operable program or batch file." They then successfully execute "ssh safal@192.168.253.128". The terminal displays the Ubuntu login banner for Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-46-generic x86\_64), including links for documentation, management, and support. It also shows that 43 updates can be applied immediately, with 9 being standard security updates. The user is prompted to run "apt list --upgradable". The terminal output indicates that the list of available updates is more than a week old and suggests running "sudo apt update". The last login is recorded as "Sun Sep 4 14:25:09 2022 from 192.168.253.1". The prompt returns to "safal@safal-virtual-machine:~\$". On the left side of the window, a vertical sidebar contains icons for various Windows applications: Assign, Account, Dashboard, Courses, Groups, Calendar, Inbox, History, Studio, and Request a.

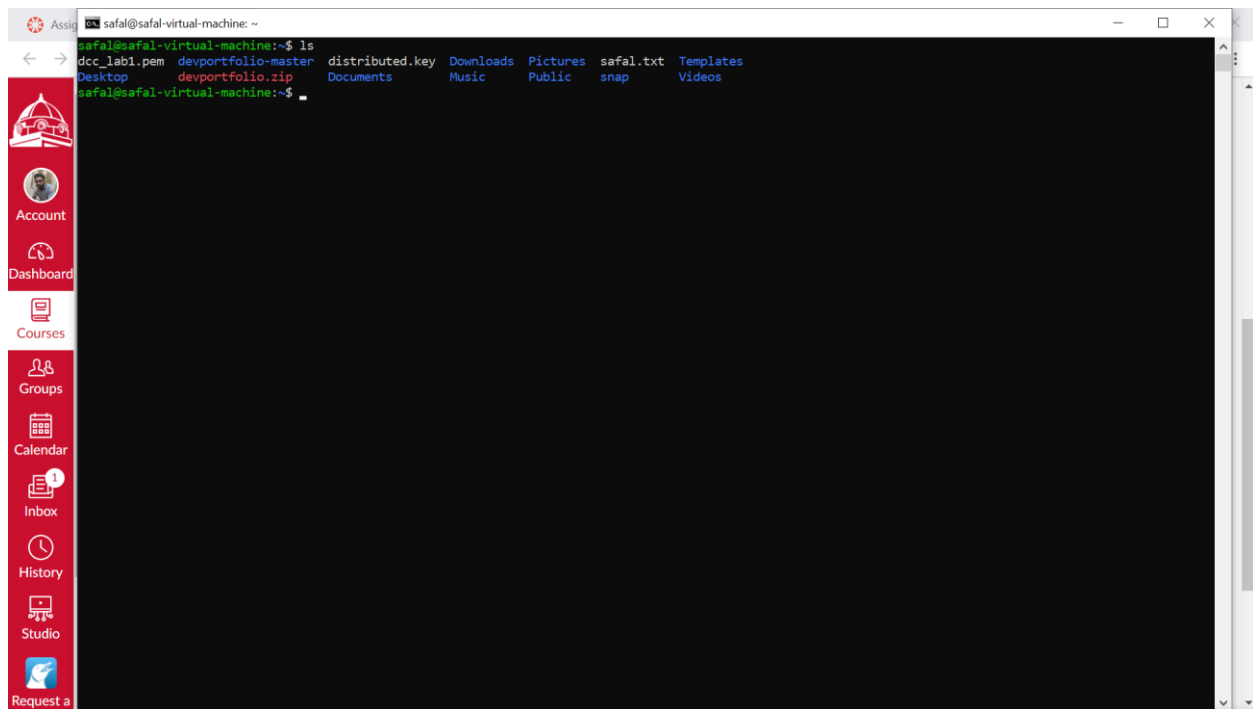
```
Assign safal@safal-virtual-machine: ~
C:\Users\Safal\Downloads>cd
C:\Users\Safal\Downloads>clear
'clear' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\Safal\Downloads>ssh safal@192.168.253.128
safal@192.168.253.128's password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-46-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

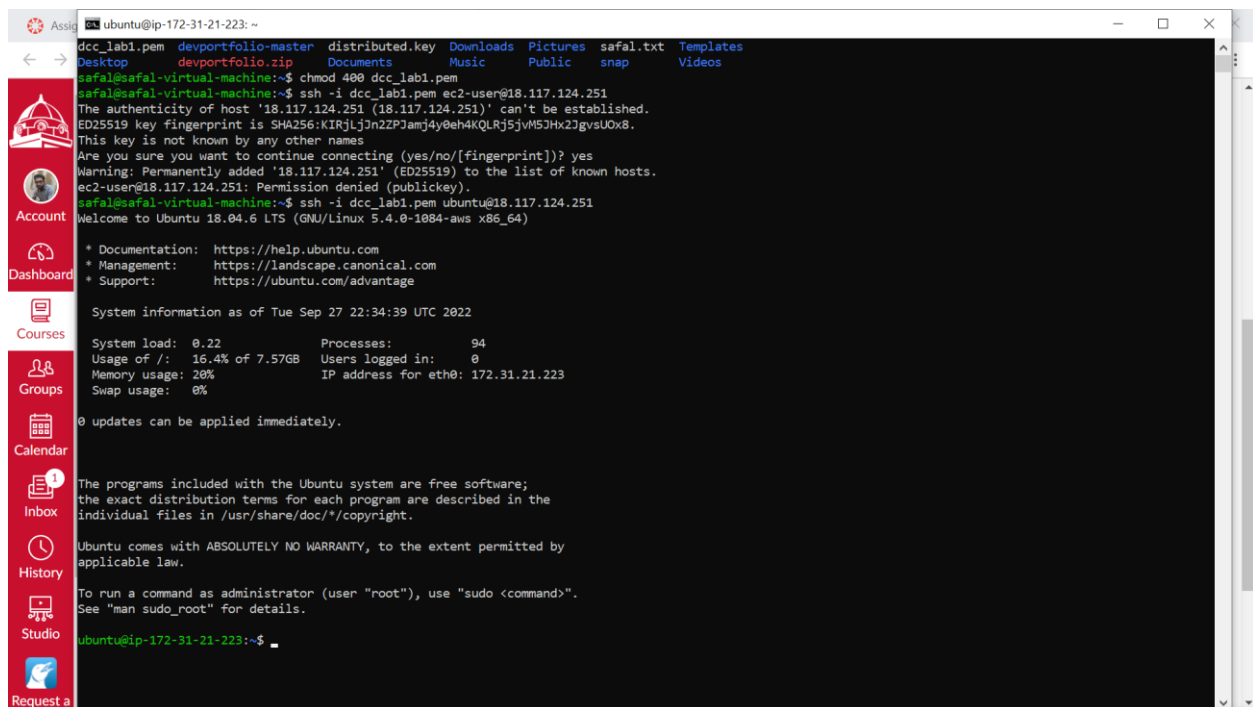
43 updates can be applied immediately.
9 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Sun Sep  4 14:25:09 2022 from 192.168.253.1
safal@safal-virtual-machine:~$
```

Ec2 instance ssh key : dcc\_lab1.pem

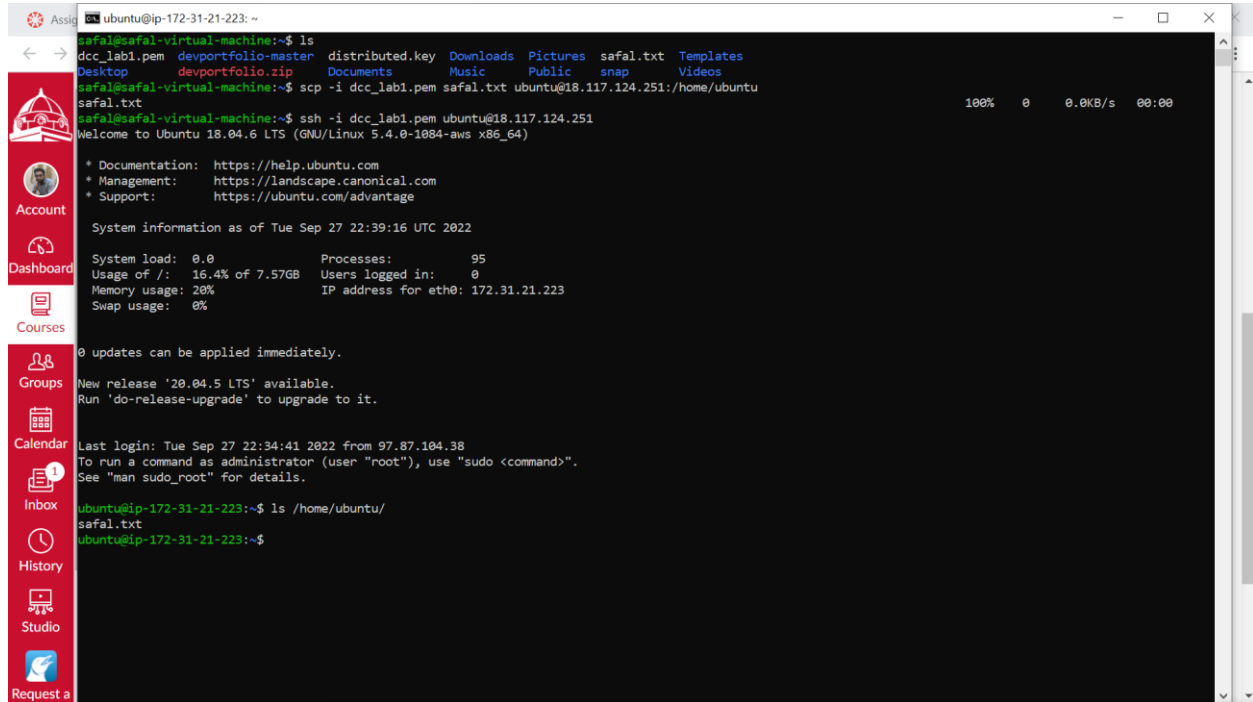


## Accessing ec2 instance from local virtual machine



- Copy a file from your ubuntu Virtual Machine to your ubuntu EC2 instance by using SCP command.

1. Copy a file from your local Ubuntu 18.04 VM to your AWS EC2 Ubuntu VM.

A terminal window titled 'ubuntu@ip-172-31-21-223: ~' showing a file transfer and system information. The terminal has a dark background with a red sidebar on the left containing icons for Account, Dashboard, Courses, Groups, Calendar, Inbox, History, Studio, and Request a. The terminal output shows a local file transfer from 'safal@safal-virtual-machine' to 'ubuntu@18.117.124.251' using 'scp'. The transfer of 'safal.txt' is complete at 100% speed. The terminal then displays system information for Ubuntu 18.04.6 LTS, including system load, memory usage, and available updates. Finally, the user runs 'ls /home/ubuntu/' on the remote machine, confirming the presence of 'safal.txt'.

```
ubuntu@ip-172-31-21-223: ~
safal@safal-virtual-machine:~$ ls
dcc_lab1.pem  devportfolio-master  distributed.key  Downloads  Pictures  safal.txt  Templates
Desktop      devportfolio.zip     Documents       Music      Public    snap       Videos
safal@safal-virtual-machine:~$ scp -i dcc_lab1.pem safal.txt ubuntu@18.117.124.251:/home/ubuntu
safal.txt                                           100%  0    0.0KB/s   00:00
safal@safal-virtual-machine:~$ ssh -i dcc_lab1.pem ubuntu@18.117.124.251
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1084-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Tue Sep 27 22:39:16 UTC 2022

System load:  0.0               Processes:    95
Usage of /:   16.4% of 7.57GB   Users logged in:  0
Memory usage: 20%              IP address for eth0: 172.31.21.223
Swap usage:  0%

0 updates can be applied immediately.
New release '20.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Sep 27 22:34:41 2022 from 97.87.104.38
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-21-223:~$ ls /home/ubuntu/
safal.txt
ubuntu@ip-172-31-21-223:~$
```

A file Safal.txt has been copied to ec2 instance under Ubuntu user.