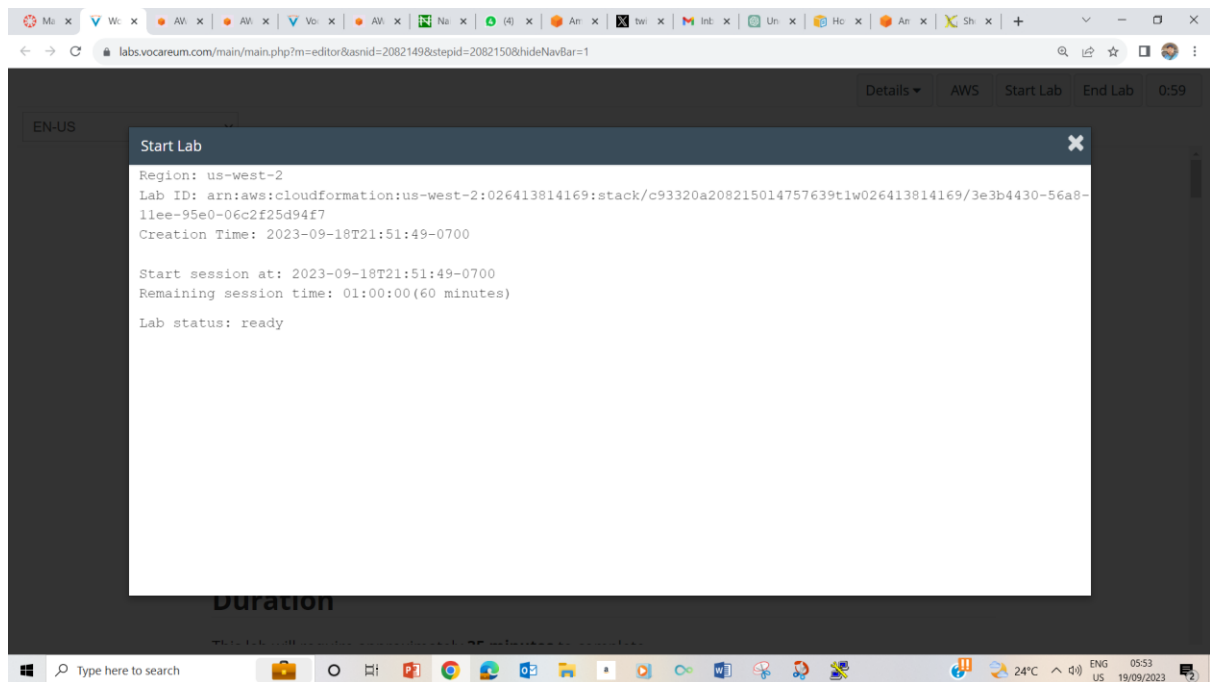
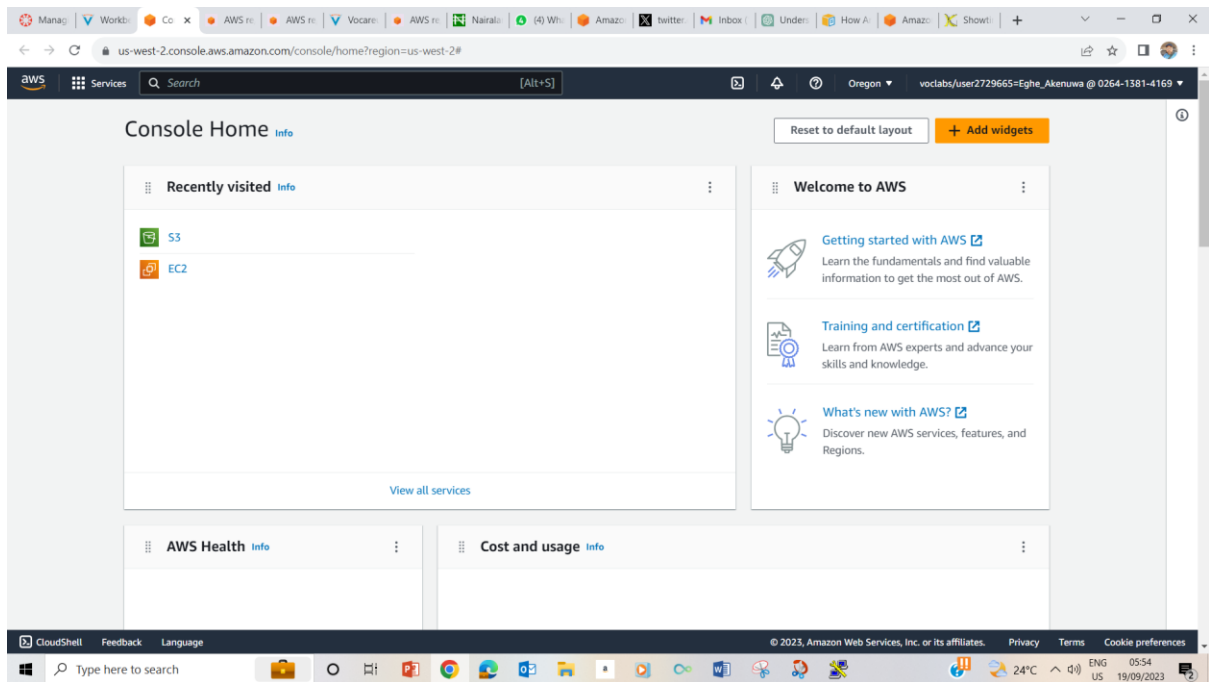


Managing File Permissions

Accessing the AWS Management Console



1. Clicked on the Start handle until the pop up showed that Lab Status Ready



2- 3 Clicked on the AWS handle to show the above page already signed in.

Task 1: Use SSH to connect to an Amazon Linux EC2 instance

Windows Users: Using SSH to Connect

EN-US

Details

AWS

Start Lab

End Lab

0:53

Details

AWS:

Show

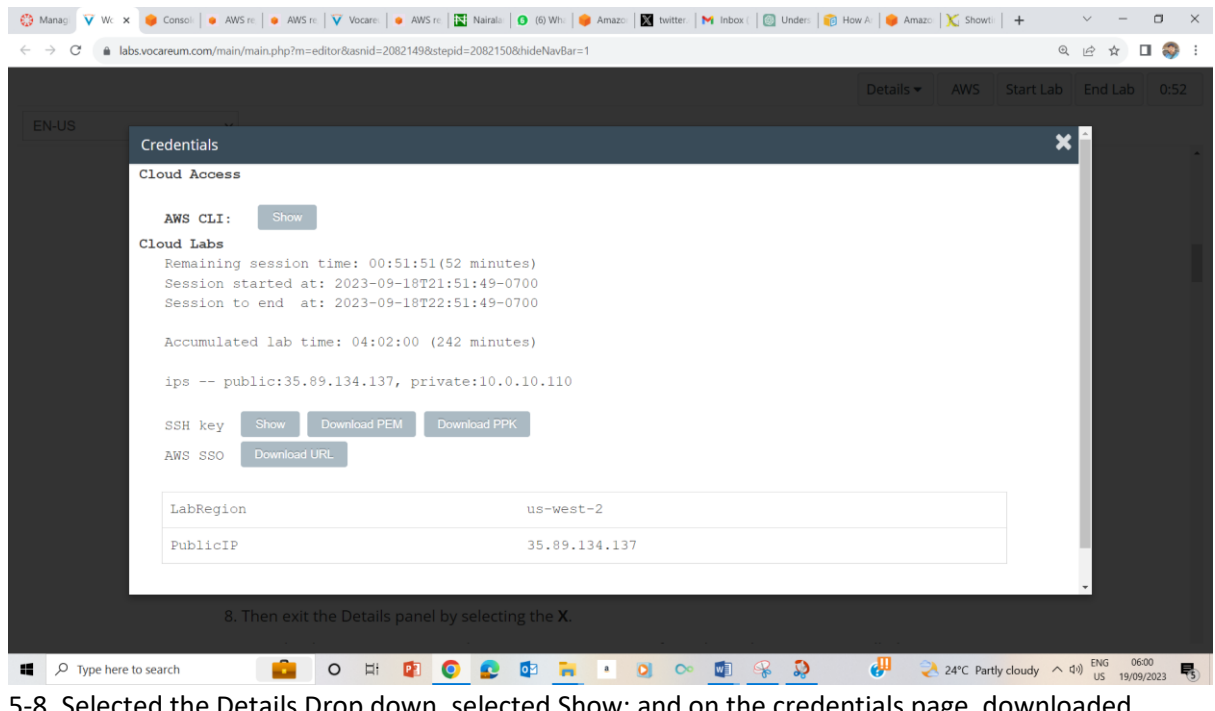
Task 1: Use SSH to connect to an Amazon instance

In this task, you will connect to a Amazon Linux EC2 instance. You will use an SSH utility to perform all of these operations. The following instructions vary slightly depending on whether you are using Windows or Mac/Linux.

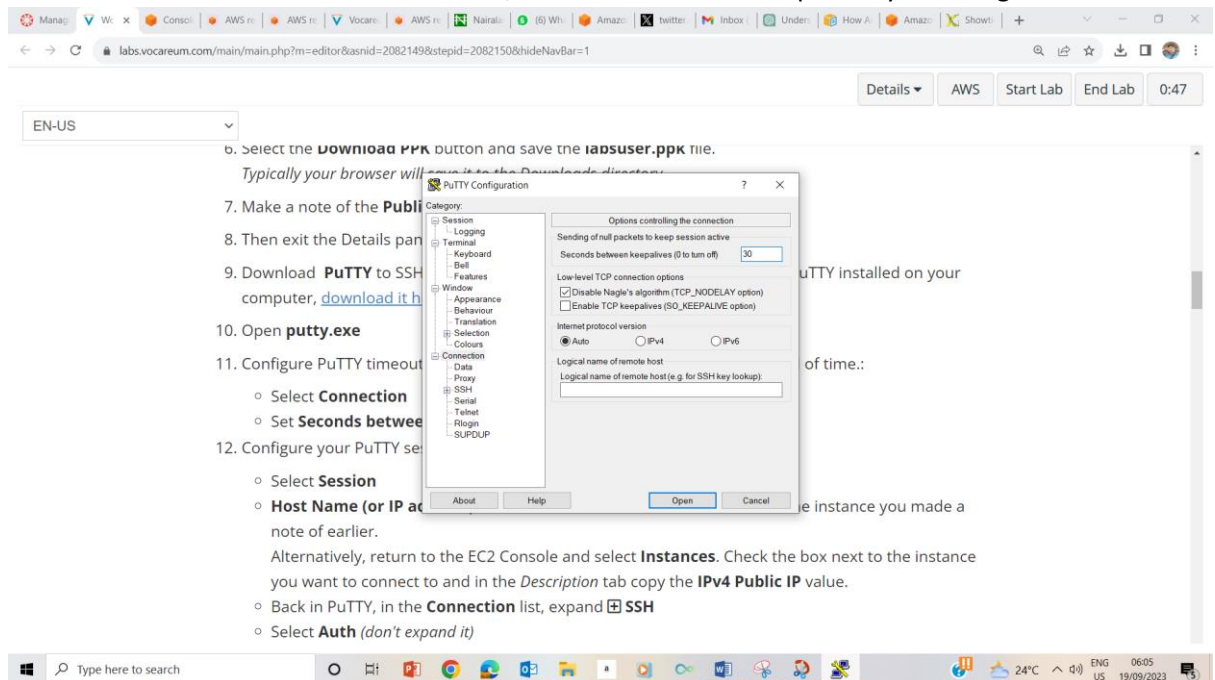
Windows Users: Using SSH to Connect

These instructions are specifically for Windows users. If you are using macOS or Linux, [skip to the next section](#).

5. Select the **Details** drop-down menu above these instructions you are currently reading, and then select **Show**. A Credentials window will be presented.
6. Select the **Download PPK** button and save the **labsuser.ppk** file.
Typically your browser will save it to the Downloads directory.
7. Make a note of the **PublicIP** address.
8. Then exit the Details panel by selecting the **X**.



5-8. Selected the Details Drop down, selected Show; and on the credentials page, downloaded PPK. Noted the PublicIP as 35.89.134.137, then exited the Details panel by selecting the X.



9-11 Downloaded Putty, opened putty.exe, selected connection, set seconds between time out to be 30.

EN-US

- b. Select the **Download PPK** button and save the **labuser.ppk** file.

Typically your browser will save the file to the Downloads directory.

7. Make a note of the **Public IP** address.

8. Then exit the Details pane.

9. Download **PutTY** to SSH.

computer, [download it here](#).

10. Open **putty.exe**.

11. Configure PuTTY timeout.

- o Select **Connection**

- o Set **Seconds between**

12. Configure your PuTTY session.

- o Select **Session**

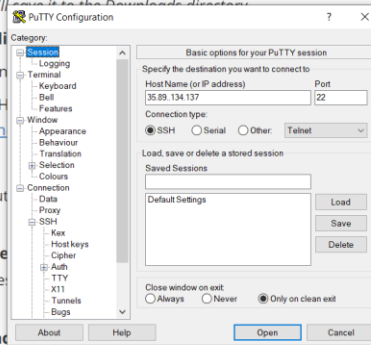
- o **Host Name (or IP address)**

note of earlier.

Alternatively, return to the EC2 Console and select **Instances**. Check the box next to the instance you want to connect to and in the **Description** tab copy the **IPv4 Public IP** value.

- o Back in PuTTY, in the **Connection** list, expand **SSH**

- o Select **Auth** (don't expand it)



EN-US

11. Configure PuTTY timeout.

- o Select **Connection**

- o Set **Seconds between**

12. Configure your PuTTY session.

- o Select **Session**

- o **Host Name (or IP address)**

note of earlier.

Alternatively, return to the EC2 Console and select **Instances**. Check the box next to the instance you made a note of earlier.

- o Back in PuTTY, in the **Connection** list, expand **SSH**

- o Select **Auth** (don't expand it)

- o Select **Browse**

- o Browse to and select the **labuser.ppk** file.

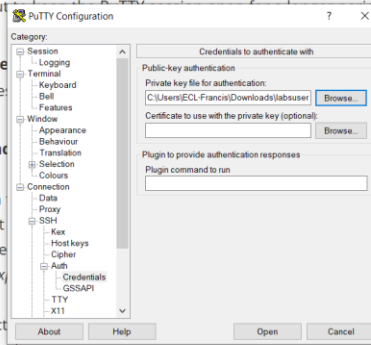
- o Select **Open** to select it.

- o Select **Open** again.

13. Select **Yes**, to trust and connect to the host.

14. When prompted **login as**, enter: **ec2-user**

This will connect you to the EC2 instance.



labs.vocareum.com/main/main.php?m=editor&asnid=2082149&stepid=2082150&hideNavBar=1

EN-US

35.89.134.137 - PuTTY

Putty Security Alert

The host key is not cached for this server:
35.89.134.137 (port 22)

You have no guarantee that the server is the computer you think it is.

The server's ssh-ed25519 key fingerprint is:
ssh-ed25519 255 SHA256:NDXVa5k8U5/79ZJc24-KAaKAcVd1mK-Bn2dF3eg

If you trust this host, press "Accept" to add the key to PuTTY's cache and carry on connecting.

If you want to carry on connecting just once, without adding the key to the cache, press "Connect Once".

If you do not trust this host, press "Cancel" to abandon the connection.

Help Move info... Accept Connect Once Cancel

Details AWS Start Lab End Lab 0:42

h open for a longer period of time.:

DNS or IPv4 address of the instance you made a

Select Instances. Check the box next to the instance

lab copy the IPv4 Public IP value.

SSH

- Select **Auth** (don't expand it)
- Select **Browse**
- Browse to and select the lab#.ppk file that you downloaded
- Select **Open** to select it
- Select **Open** again.

13. Select **Yes**, to trust and connect to the host.

14. When prompted **login as**, enter: `ec2-user`

This will connect you to the EC2 instance.

Type here to search

ENG US 06:11 19/09/2023

10-14

ec2-user@ip-10-0-10-110:~\$

login as: ec2-user

Authenticating with public key "imported-openssh-key"

```

      _ _ _ _ _
     /           \
    /             \
   /               \
  /                 \
 /                   \
/                     \

```

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/

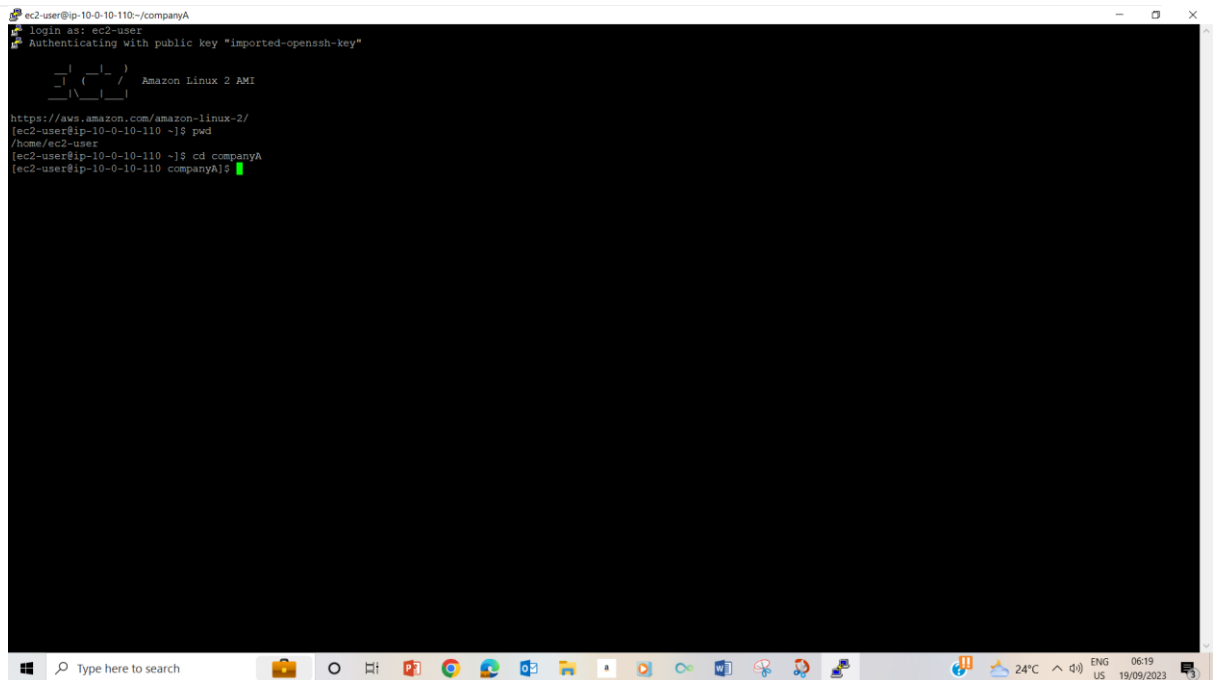
[ec2-user@ip-10-0-10-110 ~]\$

Type here to search

24°C ENG US 06:16 19/09/2023

15. Logged in as ec2-user

Task 2: Change file and folder ownership



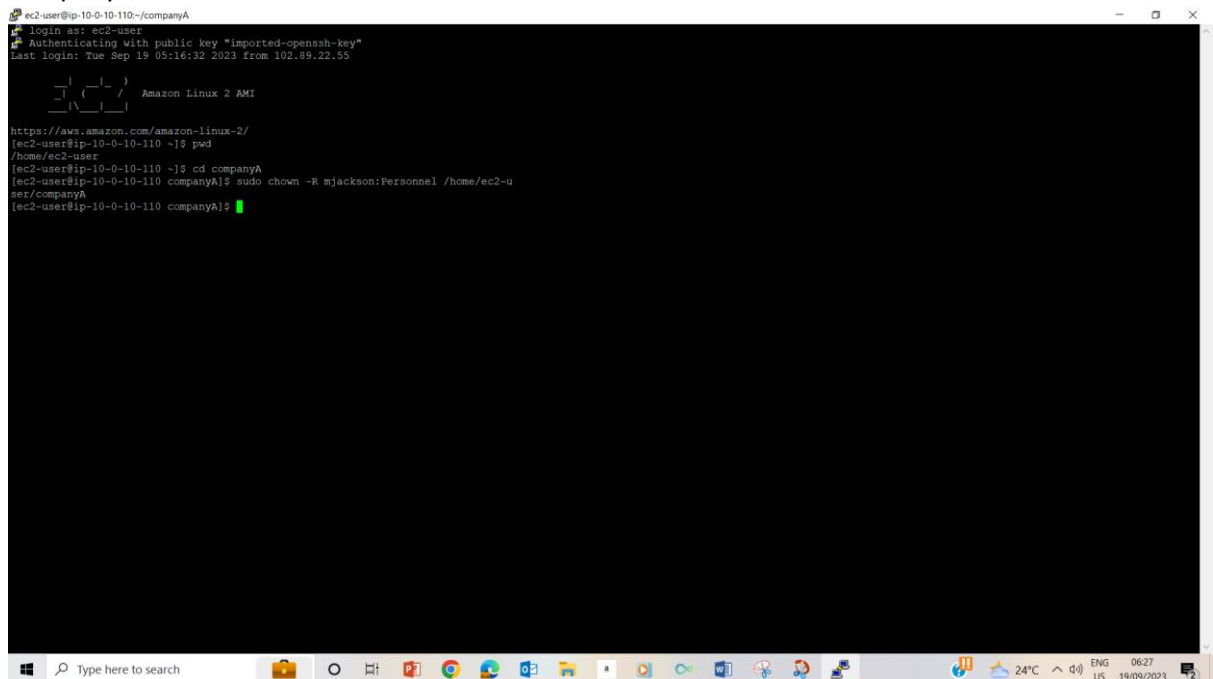
A terminal window titled 'ec2-user@ip-10-0-10-110:~/companyA'. The terminal shows the login process for 'ec2-user' using a public key. After the login banner for Amazon Linux 2 AMI, the user runs 'pwd', which outputs '/home/ec2-user'. Then, the user runs 'cd companyA', and the prompt changes to '[ec2-user@ip-10-0-10-110 companyA]\$'.

```
ec2-user@ip-10-0-10-110:~/companyA
login as: ec2-user
Authenticating with public key "imported-openssh-key"

 _ _ _ _ _
| | | | |
 _ _ _ _ _ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-10-110 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-110 ~]$ cd companyA
[ec2-user@ip-10-0-10-110 companyA]$
```

24-27. used pwd to check my present working directory, and did cd companyA to go to companyA folder.



A terminal window titled 'ec2-user@ip-10-0-10-110:~/companyA'. It shows the login process and the 'pwd' command outputting '/home/ec2-user'. Then, the user runs 'cd companyA'. The prompt changes to '[ec2-user@ip-10-0-10-110 companyA]'. The user then runs 'sudo chown -R mjackson:Personnel /home/ec2-user/companyA'. The terminal shows the command being executed, and the prompt returns to '[ec2-user@ip-10-0-10-110 companyA]\$'.

```
ec2-user@ip-10-0-10-110:~/companyA
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Tue Sep 19 05:16:32 2023 from 102.89.22.55

 _ _ _ _ _
| | | | |
 _ _ _ _ _ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-10-110 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-110 ~]$ cd companyA
[ec2-user@ip-10-0-10-110 companyA]$ sudo chown -R mjackson:Personnel /home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$
```

28. Changed ownership of the companyA folder to the CEO mjackson and the group ownership to Personnel by typing sudo chown -R mjackson:Personnel /home/ec2-user/companyA

Task 3: Change permission modes

```
ec2-user@ip-10-0-10-110:~/companyA
total 0
drwxr-xr-x 2 mmajor Finance 105 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Hourly.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 IncomeGeneration.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 ProfitAndLossStatements.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Salary.csv

./HR/Management:
total 0
drwxr-xr-x 2 ljuan HR 140 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Losses.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Managers.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Orders.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Profits.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Repairs.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Schedule.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Sections.csv

./HR/NewHires:
total 0
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$
```

32. typed `pwd` and pressed enter to validate that I was on the home directory.

```
ec2-user@ip-10-0-10-110:~/companyA
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$
```



```
ec2-user@ip-10-0-10-110:~/companyA
drwxr-xr-x 2 mmajor Finance 105 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Hourly.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 IncomeGeneration.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 ProfitAndLossStatements.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Salary.csv

./HR/Management:
total 0
drwxr-xr-x 2 ljuan HR 140 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Losses.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Managers.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Orders.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Profits.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Repairs.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Schedule.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Sections.csv

./HR/NewHires:
total 0
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$
```

33-34

```
ec2-user@ip-10-0-10-110:~/companyA
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Hourly.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 IncomeGeneration.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 ProfitAndLossStatements.csv
-rw-r--r-- 1 mmajor Finance 0 Sep 19 04:53 Salary.csv

./HR/Management:
total 0
drwxr-xr-x 2 ljuan HR 140 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Losses.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Managers.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Orders.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Profits.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Repairs.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Schedule.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Sections.csv

./HR/NewHires:
total 0
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

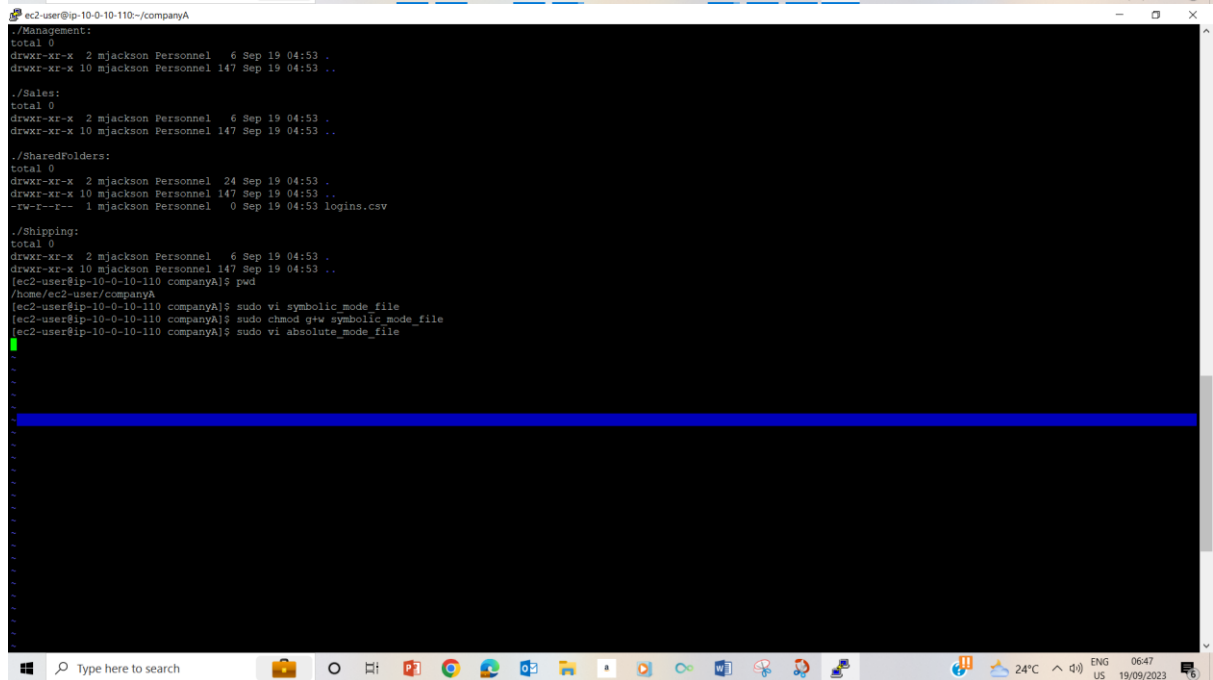
./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod g+w symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$
```

35- using chmod to give write rights to the symbolic_mode_file
Sudo



```
ec2-user@ip-10-0-10-110:~/companyA
-rw-r--r-- 1 mmaior Finance 0 Sep 19 04:53 Hourly.csv
-rw-r--r-- 1 mmaior Finance 0 Sep 19 04:53 IncomeGeneration.csv
-rw-r--r-- 1 mmaior Finance 0 Sep 19 04:53 ProfitAndLossStatements.csv
-rw-r--r-- 1 mmaior Finance 0 Sep 19 04:53 Salary.csv

./HR/Management:
total 0
drwxr-xr-x 2 ljuan HR 140 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Losses.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Managers.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Orders.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Profits.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Repairs.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Schedule.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Sections.csv

./HR/NewHires:
total 0
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod g+w symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo vi absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$
```

```
ec2-user@ip-10-0-10-110:~/companyA
total 0
drwxr-xr-x 2 ljuan HR 140 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Losses.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Managers.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Orders.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Profits.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Repairs.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Schedule.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Sections.csv

./HR/NewHires:
total 0
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod g+w symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo vi absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_mode_file
chmod: cannot access 'absolute_mode_file': No such file or directory
ec2-user@ip-10-0-10-110 companyA$ sudo chmod absolute_mode_file
chmod: missing operand after 'absolute_mode_file'
Try 'chmod --help' for more information.
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$
```

37&38- used vim to create absolute_mode_file and used absolute mode to change the file permissions

```
ec2-user@ip-10-0-10-110:~/companyA
drwxr-xr-x 2 ljuan HR 52 Sep 19 04:53 .
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 ..
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod g+w symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo vi absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_file_mode
chmod: cannot access 'absolute_file_mode': No such file or Directory
ec2-user@ip-10-0-10-110 companyA$ sudo chmod absolute_mode_file
chmod: missing operand after 'absolute_mode_file'
try 'chmod --help' for more information.
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$ ls -l
total 0
-rwxr-xr-x 1 root root 0 Sep 19 05:48 absolute_mode_file
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 CEO
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Documents
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Employees
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 HR
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Management
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 Roster.csv
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Sales
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 SharedFolders
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Shipping
-rw-r--r-- 1 root root 0 Sep 19 05:43 symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$
```

39 Used `ls -l` command to see the two files

Task 4: Assign permissions

```
ec2-user@ip-10-0-10-110:~/companyA
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 Assessments.csv
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$ sudo vi symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod g+w symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo vi absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_file_mode
chmod: cannot access 'absolute_file_mode': No such file or Directory
ec2-user@ip-10-0-10-110 companyA$ sudo chmod absolute_mode_file
chmod: missing operand after 'absolute_mode_file'
try 'chmod --help' for more information.
ec2-user@ip-10-0-10-110 companyA$ sudo chmod 764 absolute_mode_file
ec2-user@ip-10-0-10-110 companyA$ ls -l
total 0
-rwxr-xr-x 1 root root 0 Sep 19 05:48 absolute_mode_file
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 CEO
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Documents
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Employees
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 HR
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Management
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 Roster.csv
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Sales
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 SharedFolders
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Shipping
-rw-r--r-- 1 root root 0 Sep 19 05:43 symbolic_mode_file
ec2-user@ip-10-0-10-110 companyA$ pwd
/home/ec2-user/companyA
ec2-user@ip-10-0-10-110 companyA$
```

40. Used `pwd` to validate that I am in `/home/ec2-user/companyA`

```
ec2-user@ip-10-0-10-110:~/companyA
-rw-r--r-- 1 ljuan HR 0 Sep 19 04:53 TrialPeriod.csv

./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$ sudo vi symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod g+w symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo vi absolute_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod 764 absolute_file_mode
chmod: cannot access 'absolute_file_mode': No such file or directory
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod absolute_mode_file
chmod: missing operand after 'absolute_mode_file'
Try 'chmod --help' for more information.
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod 764 absolute_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ ls -l
total 0
-rwxr-xr-x 1 root root 0 Sep 19 05:48 absolute_mode_file
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 CEO
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Documents
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Employees
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 HR
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Management
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 Roster.csv
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Sales
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 SharedFolders
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Shipping
-rw-rw-r-- 1 root root 0 Sep 19 05:43 symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$ sudo chown -R eowusu:Shipping Shipping
[ec2-user@ip-10-0-10-110 companyA]$
```

41. used `sudo chown -R eowusu:Shipping Shipping` to change ownership of the Shipping folder to eowusu.

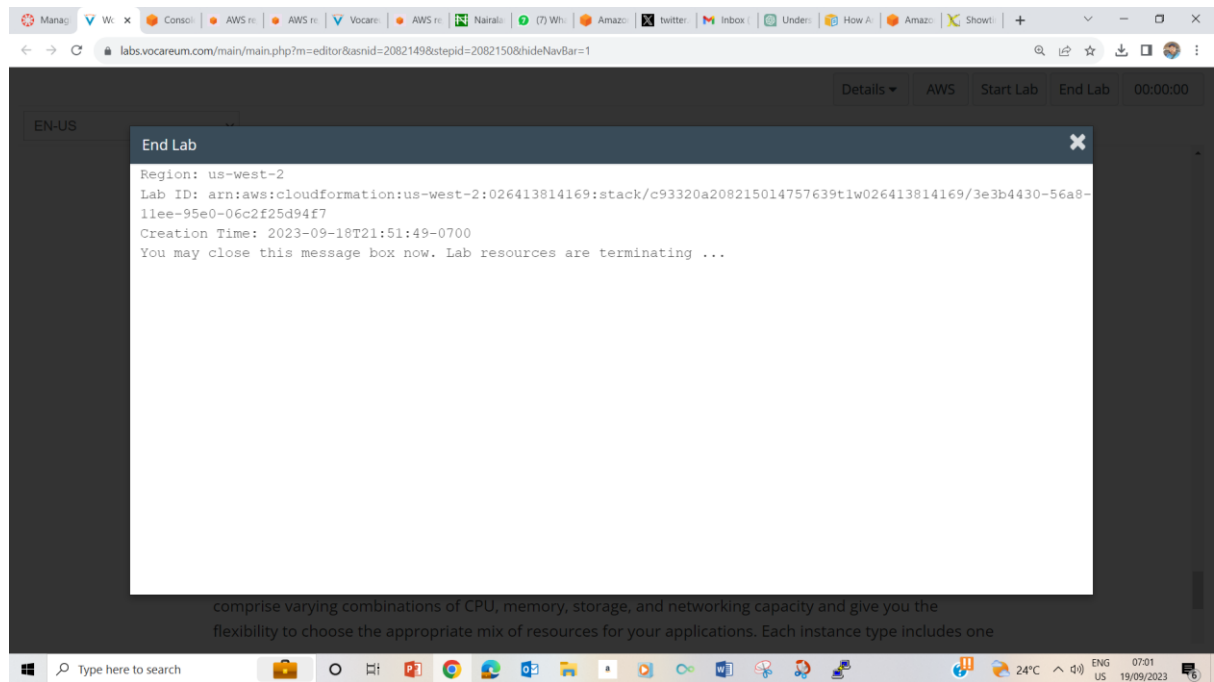
```
ec2-user@ip-10-0-10-110:~/companyA
./Management:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./Sales:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..

./SharedFolders:
total 0
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 logins.csv

./Shipping:
total 0
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 .
drwxr-xr-x 10 mjackson Personnel 147 Sep 19 04:53 ..
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$ sudo vi symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod g+w symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo vi absolute_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod 764 absolute_file_mode
chmod: cannot access 'absolute_file_mode': No such file or directory
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod absolute_mode_file
chmod: missing operand after 'absolute_mode_file'
Try 'chmod --help' for more information.
[ec2-user@ip-10-0-10-110 companyA]$ sudo chmod 764 absolute_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ ls -l
total 0
-rwxr-xr-x 1 root root 0 Sep 19 05:48 absolute_mode_file
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 CEO
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Documents
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Employees
drwxr-xr-x 6 ljuan HR 72 Sep 19 04:53 HR
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Management
-rw-r--r-- 1 mjackson Personnel 0 Sep 19 04:53 Roster.csv
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Sales
drwxr-xr-x 2 mjackson Personnel 24 Sep 19 04:53 SharedFolders
drwxr-xr-x 2 mjackson Personnel 6 Sep 19 04:53 Shipping
-rw-rw-r-- 1 root root 0 Sep 19 05:43 symbolic_mode_file
[ec2-user@ip-10-0-10-110 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-110 companyA]$ sudo chown -R eowusu:Shipping Shipping
[ec2-user@ip-10-0-10-110 companyA]$ sudo chown -R nwolf:Sales Sales
[ec2-user@ip-10-0-10-110 companyA]$
```

42. used `sudo chown -R nwolf:Sales Sales` to change ownership of the Sales folder to nwolf.



44. Selected End Lab at the top of the instruction page and selected yes.
45. clicked X in the top right corner to close the panel.