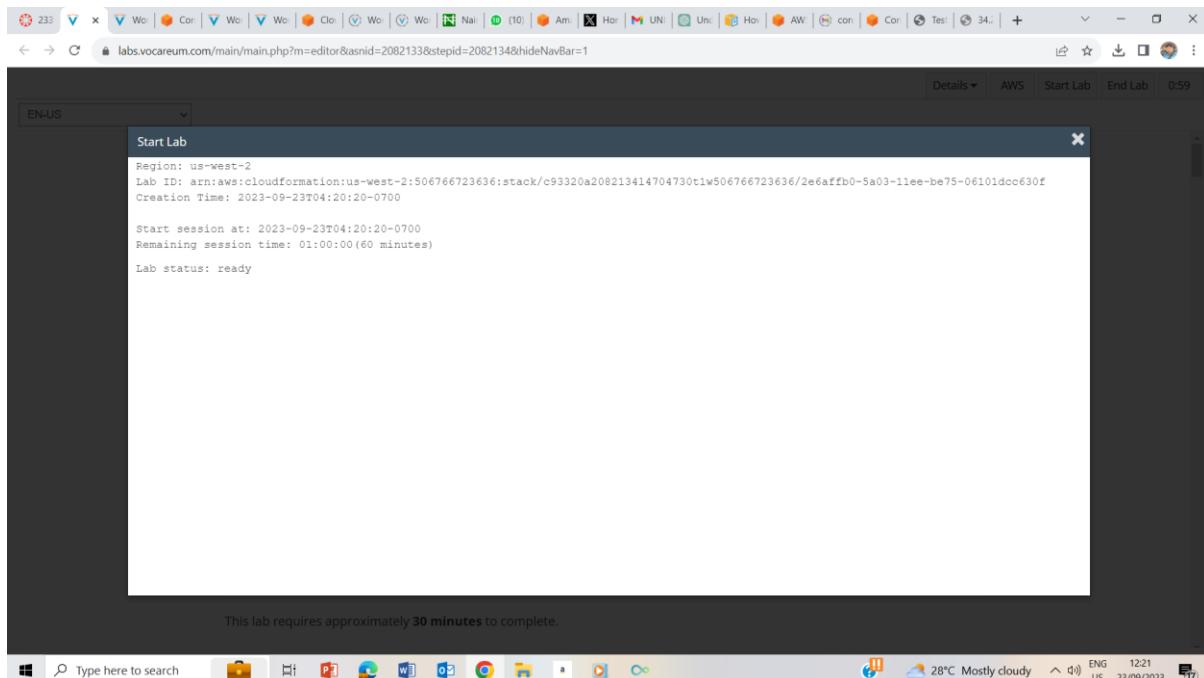
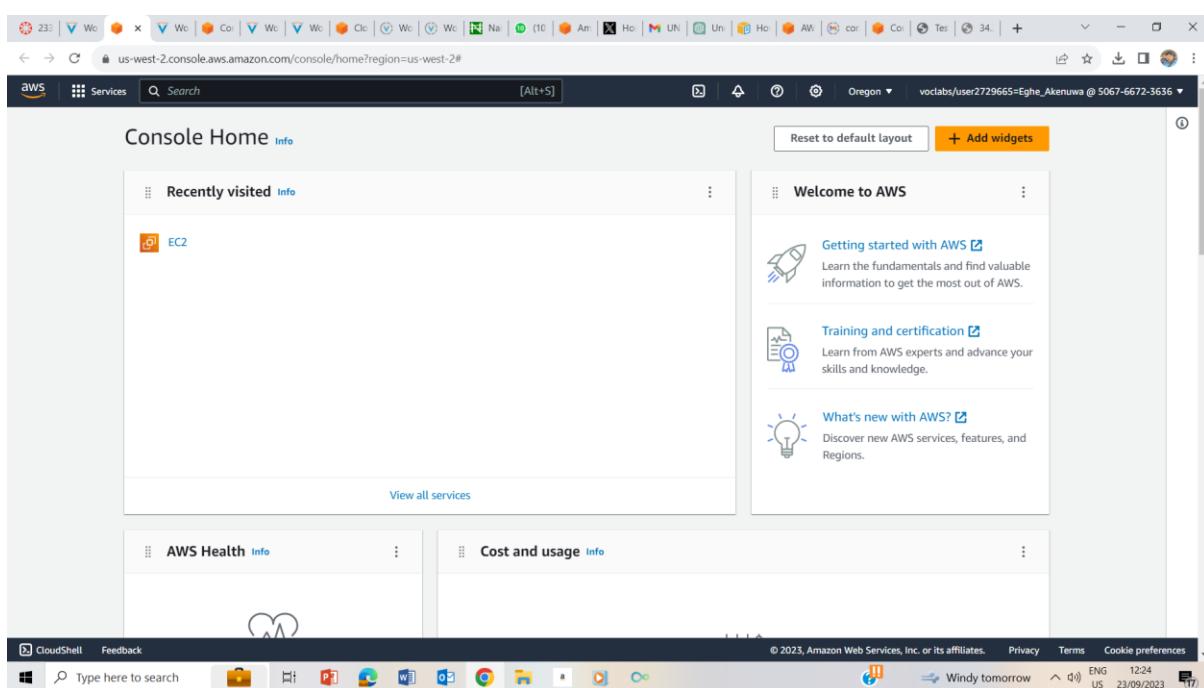


WORKING WITH THE FILE SYSTEM LAB

Accessing the AWS Management Console



Lab status is ready



Clicked AWS to take me to the AWS Management console

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

Windows Users: Using SSH to Connect

The screenshot shows a web browser window with the URL labs.vocareum.com/main/main.php?m=editor&asnid=2082133&stepid=2082134&hideNavBar=1. The page title is "Task 1: Use SSH to connect to an Amazon Linux EC2 instance". A dropdown menu labeled "EN-US" is open, showing "Details" and "AWS". Below the menu, a "Show" button is visible. The main content area contains instructions for Windows users:

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**.
9. Download **PuTTY** to SSH into the Amazon EC2 instance. If you do not have PuTTY installed on your computer, [download it here](#).
10. Open **putty.exe**
11. Configure PuTTY timeout to keep the PuTTY session open for a longer period of time:
 - o Select **Connection**
 - o Set **Seconds between keepalives** to 30
12. Configure your PuTTY session:

The screenshot shows a web browser window with the same URL as the previous screenshot. The "Details" dropdown is open, and the "AWS" option is selected. A modal dialog titled "Cloud Access" is displayed, showing session details and download links:

AWS CLI: [Show](#)

Cloud Labs

```
Remaining session time: 00:53:20 (54 minutes)
Session started at: 2023-09-23T04:20:20-0700
Session to end at: 2023-09-23T05:20:20-0700

Accumulated lab time: 01:42:00 (102 minutes)

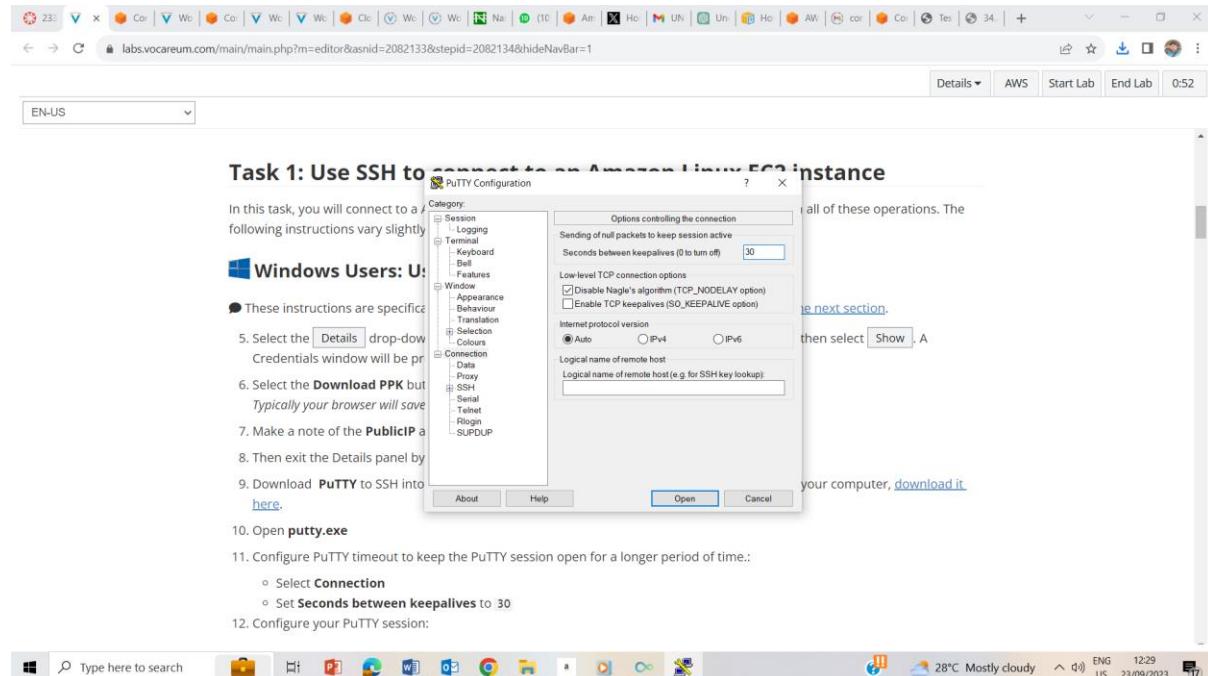
ips -- public:34.222.52.36, private:10.0.10.126
```

SSH key: [Show](#) [Download PEM](#) [Download PPK](#)

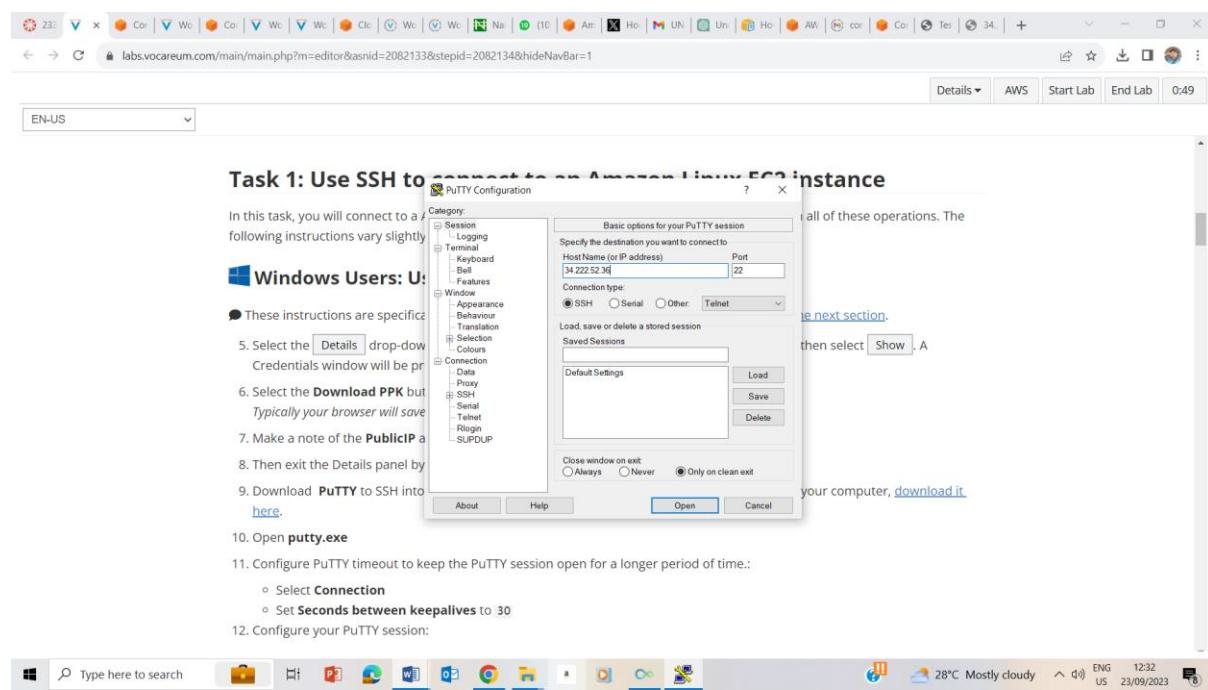
AWS SSO: [Download URL](#)

LabRegion	us-west-2
PublicIP	34.222.52.36

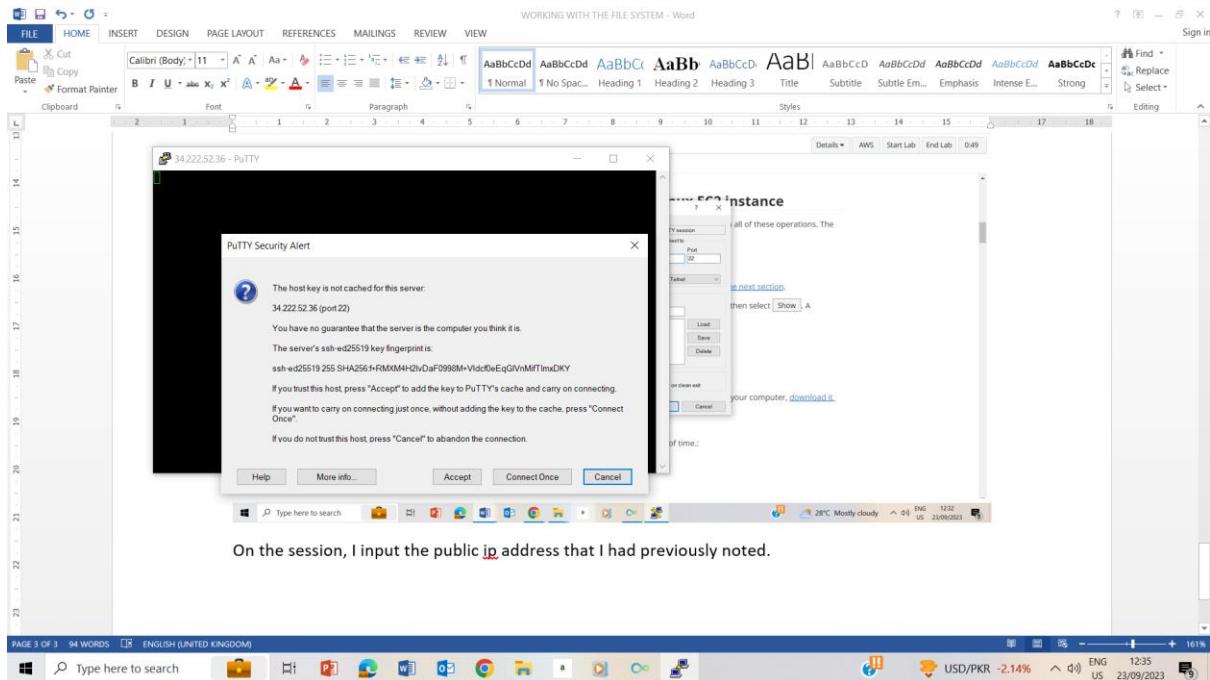
Clicked on AWS dropdown box and clicked on show to reveal the credentials page, downloaded PPK and also noted the public ip address .



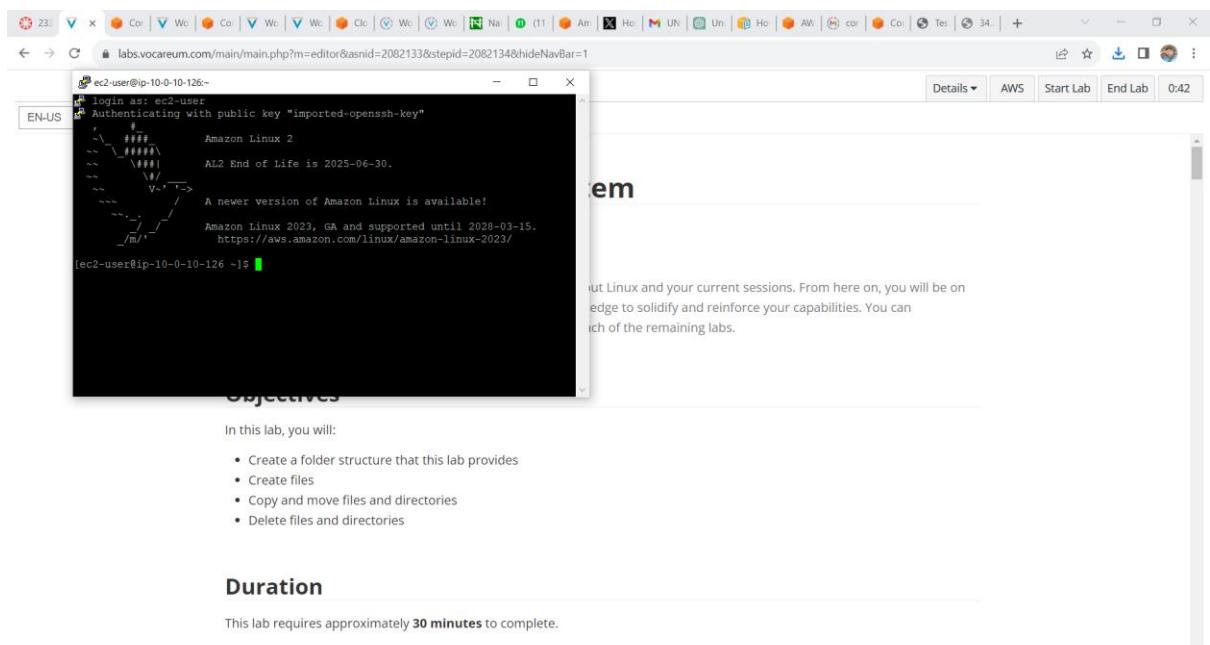
Downloaded putty, ran putty.exe , selected connecton and set seconds to staylives 30.



On the session, I input the public ip address that I had previously noted, clicked on open and open again.



I clicked on accept to trust and connect to the host.



Duration

This lab requires approximately **30 minutes** to complete.

connected

Task 2: Create a Folder Structure

directories: Finance, HR, and Management. In the finance folder, you will see a Salary.csv and a ProfitAndLossStatements.csv files. In the HR folder, you will see an Assessments.csv and TrialPeriod.csv files. Within the Management folder, you will see Managers.csv and Schedule.csv files.

Helpful Hint

Use the `ls` and `pwd` commands after each step to validate that you have created the files correctly.

24. To validate that you are in the home folder of your current user, enter `pwd` and press Enter. If you're not in the home folder, enter `cd /home/ec2-user`.
25. In the terminal, enter `mkdir CompanyA` and press Enter to create the top-level folder.
26. To change directories, enter `cd CompanyA` and press Enter.
27. To create all the sub folders, enter `mkdir Finance HR Management` and press Enter.
28. To validate that the folders were created, enter `ls` and press Enter.

```
[ec2-user@ CompanyA]$ ls
Finance HR Management
[ec2-user@ CompanyA]$
```

29. To change your current directory to the **HR** directory, enter `cd HR` and press Enter

Pwd to confirm if I am on the home directory, which I am.

directories: Finance, HR, and Management. In the finance folder, you will see a Salary.csv and a ProfitAndLossStatements.csv files. In the HR folder, you will see an Assessments.csv and TrialPeriod.csv files. Within the Management folder, you will see Managers.csv and Schedule.csv files.

Helpful Hint

Use the `ls` and `pwd` commands after each step to validate that you have created the files correctly.

24. To validate that you are in the home folder of your current user, enter `pwd` and press Enter. If you're not in the home folder, enter `cd /home/ec2-user`.
25. In the terminal, enter `mkdir CompanyA` and press Enter to create the top-level folder.
26. To change directories, enter `cd CompanyA` and press Enter.
27. To create all the sub folders, enter `mkdir Finance HR Management` and press Enter.
28. To validate that the folders were created, enter `ls` and press Enter.

```
[ec2-user@ CompanyA]$ ls
Finance HR Management
[ec2-user@ CompanyA]$
```

29. To change your current directory to the **HR** directory, enter `cd HR` and press Enter

Mkdir CompanyA is to create a top level folder CompanyA

```

[ec2-user@ip-10-0-10-126:~] ls
[ec2-user@ip-10-0-10-126:~] mkdir CompanyA
[ec2-user@ip-10-0-10-126:~] cd CompanyA
[ec2-user@ip-10-0-10-126:CompanyA] ls
[ec2-user@ip-10-0-10-126:CompanyA] pwd
[ec2-user@ip-10-0-10-126:~] cd ..
[ec2-user@ip-10-0-10-126:~] ls

```

directories: Finance, HR, and Management. In the finance folder, you will see a Salary.csv and a ProfitAndLossStatements.csv files. In the HR folder, you will see an Assessments.csv and TrialPeriod.csv files. Within the Management folder, you will see Managers.csv and Schedule.csv files.

Helpful Hint

Use the `ls` and `pwd` commands after each step to validate that you have created the files correctly.

- To validate that you are in the home folder of your current user, enter `pwd` and press Enter. If you're not in the home folder, enter `cd /home/ec2-user`.
- In the terminal, enter `mkdir CompanyA` and press Enter to create the top-level folder.
- To change directories, enter `cd CompanyA` and press Enter.
- To create all the sub folders, enter `mkdir Finance HR Management` and press Enter.
- To validate that the folders were created, enter `ls` and press Enter.

```

[ec2-user@ CompanyA] $ ls
Finance HR Management
[ec2-user@ CompanyA] $

```

- To change your current directory to the **HR** directory, enter `cd HR` and press Enter.

Changed directory to CompanyA

```

[ec2-user@ip-10-0-10-126:~] ls
[ec2-user@ip-10-0-10-126:~] cd HR
[ec2-user@ip-10-0-10-126:HR] ls
Assessments.csv TrialPeriod.csv
[ec2-user@ip-10-0-10-126:HR] pwd
[ec2-user@ip-10-0-10-126:~] cd ..
[ec2-user@ip-10-0-10-126:~] ls

```

and press Enter. If you're not in the home folder, enter `cd /home/ec2-user`.

- In the terminal, enter `mkdir CompanyA` and press Enter to create the top-level folder.
- To change directories, enter `cd CompanyA` and press Enter.
- To create all the sub folders, enter `mkdir Finance HR Management` and press Enter.
- To validate that the folders were created, enter `ls` and press Enter.

```

[ec2-user@ CompanyA] $ ls
Finance HR Management
[ec2-user@ CompanyA] $

```

- To change your current directory to the **HR** directory, enter `cd HR` and press Enter.
- To create the empty files inside the **HR** folder, enter `touch Assessments.csv TrialPeriod.csv` and press Enter.
- To validate that the files were created, enter `ls` and press Enter.

```

[ec2-user@ HR] $ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR] $

```

- To change your current directory to **Finance**, enter `cd ../Finance` and press Enter.

Creating Finance, HR and Management Folders

```

ec2-user@ip-10-0-10-126:~/CompanyA
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux 2
AL2 End of Life is 2025-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ mkdir CompanyA
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ 

[ec2-user@ CompanyA]$ ls
Finance HR Management
[ec2-user@ CompanyA]$ 

[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$ 

[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$ 

[ec2-user@ip-10-0-10-126 ~]$ ls
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ 

```

Windows taskbar at the bottom:

Validating the created folders

```

ec2-user@ip-10-0-10-126:~/CompanyA/HR
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux 2
AL2 End of Life is 2025-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ ls
[ec2-user@ip-10-0-10-126 HR]$ 

[ec2-user@ CompanyA]$ ls
Finance HR Management
[ec2-user@ CompanyA]$ 

[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$ 

[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$ 

[ec2-user@ip-10-0-10-126 ~]$ ls
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ 

```

Windows taskbar at the bottom:

Changed directory to HR

and press Enter. If you're not in the home folder, enter `cd /home/ec2-user`.

25. In the terminal, enter `mkdir CompanyA` and press Enter to create the top-level folder.
26. To change directories, enter `cd CompanyA` and press Enter.
27. To create all the sub folders, enter `mkdir Finance HR Management` and press Enter.
28. To validate that the folders were created, enter `ls` and press Enter.

```
[ec2-user@ CompanyA]$ ls
Finance HR Management
[ec2-user@ CompanyA]$
```

29. To change your current directory to the **HR** directory, enter `cd HR` and press Enter.
30. To create the empty files inside the **HR** folder, enter `touch Assessments.csv TrialPeriod.csv` and press Enter.
31. To validate that the files were created, enter `ls` and press Enter.

```
[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$
```

32. To change your current directory to **Finance**, enter `cd ../Finance` and press Enter.

Touched Assessment.csv and TrialPeriod.csv to create Assessment and Trial period files in HR folder.

31. To validate that the files were created, enter `ls` and press Enter.

```
[ec2-user@ HR]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$
```

32. To change your current directory to **Finance**, enter `cd ../Finance` and press Enter.
33. To create the empty files inside the **Finance** folder, enter `touch Salary.csv ProfitAndLossStatements.csv` and press Enter.
34. To validate that the files were created, enter `ls` and press Enter.

```
[ec2-user@ Finance]$ ls
Salary.csv ProfitAndLossStatements.csv
[ec2-user@ Finance]$
```

35. To change directories back one level to the **CompanyA** folder, enter `cd ..` and press Enter.
36. To create the new empty files in the **Management** folder, enter `touch Management/Managers.csv Management/Schedule.csv` and press Enter.
37. To validate that the files were created, enter `ls Management` and press Enter.

```
[ec2-user@ CompanyA]$ ls Management
Managers.csv Schedule.csv
[ec2-user@ Finance]$
```

Touched salary.csv and ProfitandlossStatements.csv to create Salary and Profit and loss statement files under Finance folder

```

[ec2-user@ip-10-0-10-126 ~]$ ls
Assessments.csv TrialPeriod.csv
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ mkdir CompanyA
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ cd ..
[ec2-user@ip-10-0-10-126 Finance]$ touch Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 Finance]$ cd ..
[ec2-user@ip-10-0-10-126 CompanyA]$ ls

```

Used cd.. to return to Company folder

```

[ec2-user@ip-10-0-10-126 ~]$ ls
Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ mkdir CompanyA
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ cd ..
[ec2-user@ip-10-0-10-126 Finance]$ touch Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 Finance]$ cd ..
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Management Managers.csv Schedule.csv

```

Note:
In the previous steps, you used the `touch` and `ls` command two ways:

- Directly in the working folder: The `ls` command lists the current directory, and `touch myFile.csv` creates `myFile.csv` in the current directory.
- By using a path relative to the current folder: `ls Management` or `touch Management/myFile.csv` work in the `Management` folder inside the current folder.

Created managers.csv and Schedule.csv files and confirmed their creation using ls Management command

```

[ec2-user@ip-10-0-10-126 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-126 ~]$ ls
Management
[ec2-user@ip-10-0-10-126 ~]$ mkdir CompanyA
[ec2-user@ip-10-0-10-126 ~]$ cd CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ..../Finance
[ec2-user@ip-10-0-10-126 Finance]$ touch Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 Finance]$ cd ..
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Management/Managers.csv Management/Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Management
Managers.csv Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls -laR
.:
total 0
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 .
drwxrwxr-x 4 ec2-user ec2-user 90 Sep 23 11:43 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 Management
./Finance:
total 0
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 ProfitAndLossStatements.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Salary.csv
./HR:
total 0
drwxrwxr-x 5 ec2-user root 49 Aug 10 13:36 .
drwxrwxr-x 4 ec2-user root 90 Aug 10 13:25 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Aug 10 13:39 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Aug 10 13:37 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Aug 10 13:39 Management
./Management:
total 0
drwxrwxr-x 2 ec2-user ec2-user 49 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:40 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Trialperiod.csv
./Management:
total 0
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$

```

Used `ls -laR` to validate all the files and folders in CompanyA

Task 3: Delete and reorganize folders

```

[ec2-user@ip-10-0-10-126 ~]$ mkdir Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
Finance HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ cd ../../..
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Finance/ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Finance/Salary.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Management
Managers.csv Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls -laR
.:
total 0
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 .
drwxrwxr-x 4 ec2-user ec2-user 90 Sep 23 11:43 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 Management
./Finance:
total 0
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 ProfitAndLossStatements.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Salary.csv
./HR:
total 0
drwxrwxr-x 5 ec2-user root 49 Aug 10 13:36 .
drwxrwxr-x 4 ec2-user root 90 Aug 10 13:25 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Aug 10 13:39 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Aug 10 13:37 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Aug 10 13:39 Management
./Management:
total 0
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:40 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Trialperiod.csv
./Management:
total 0
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$

```

40. To copy the **Finance** folder and its content, enter `cp -r Finance HR` and press Enter.

41. To verify that the folder and its content was copied, enter `ls HR/Finance` and press Enter.

```

[ec2-user@ CompanyA]$ ls HR/Finance
ProfitAndLossStatements.csv Salary.csv

```

42. To remove the **Finance** folder from the **CompanyA** folder structure, enter `rmdir Finance` and press Enter.

```

[ec2-user@ companyA]$ rmdir Finance
rmdir: failed to remove 'Finance/': Directory not empty

```

`Cp -r Finance HR`, copies **Finance** to **HR** and `ls HR/Finance` lists the items in the folder.

```

[ec2-user@ip-10-0-10-126:~] ls HR/Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ cd ..
[ec2-user@ip-10-0-10-126 Finance]$ touch Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Management/Managers.csv Management/Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Management
Managers.csv Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls -laR
.:
total 0
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:40 .
drwxrwxr-x 4 ec2-user ec2-user 90 Sep 23 11:43 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 Management
./Finance:
total 0
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Salary.csv
./HR:
total 0
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ pwd
/home/ec2-user/CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ cp -r Finance HR
[ec2-user@ip-10-0-10-126 CompanyA]$ ls HR/Finance
ProfitAndLossStatements.csv Salary.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ rmdir Finance
rmrdir: failed to remove 'Finance': Directory not empty
[ec2-user@ip-10-0-10-126 CompanyA]$ 

```

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Rmdir Finance couldn't delete the folder as it has contents.

```

[ec2-user@ip-10-0-10-126:~] ls HR/Management
[ec2-user@ip-10-0-10-126 CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ touch Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls
Assessments.csv trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ cd ..
[ec2-user@ip-10-0-10-126 Finance]$ touch Salary.csv ProfitAndLossStatements.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ touch Management/Managers.csv Management/Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Management
Managers.csv Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ ls -laR
.:
total 0
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:40 .
drwxrwxr-x 4 ec2-user ec2-user 90 Sep 23 11:43 ..
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 Finance
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 HR
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 Management
./Finance:
total 0
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Salary.csv
./HR:
total 0
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ pwd
/home/ec2-user/CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]$ cp -r Finance HR
[ec2-user@ip-10-0-10-126 CompanyA]$ ls HR/Finance
ProfitAndLossStatements.csv Salary.csv
[ec2-user@ip-10-0-10-126 CompanyA]$ rmdir Finance
rmrdir: failed to remove 'Finance': Directory not empty
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finanace/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
[ec2-user@ip-10-0-10-126 CompanyA]$ 

```

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rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv removes the files in the finance folder.

Ls finance shows that there is nothing in the folder.

rmmdir works only on an empty directory.
To remove the folder, you have two options:

- Remove the files inside the folder and then remove the **Finance** folder.
- Use the **rm** command with the **-r** option to recursively delete the folder and its content.

43. To remove the files inside the **Finance** folder, enter **rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv** and press Enter.

44. To verify that the folder is empty, enter **ls Finance** and press Enter.

```
[ec2-user@ CompanyA]$ ls Finance
[ec2-user@ CompanyA]$
```

45. To remove the folder, enter **rmmdir Finance** and press Enter.

46. To verify that the folder was removed, enter **ls** and press Enter.

```
[ec2-user@ companyA]$ ls
HR Management
[ec2-user@ companyA]$
```

47. To move the **Management** folder inside the **HR** folder, enter **mv Management HR** and press Enter.

48. To verify that the folder and files were moved, enter **ls . HR/Management**

```
[ec2-user@ CompanyA]$ ls . HR/Management
[ec2-user@ CompanyA]$
```

./Finance:
total 0
drwxrwxr-x 2 ec2-user ec2-user 59 Sep 23 11:54 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:54 Trialperiod.csv
./HR:
total 0
drwxrwxr-x 2 ec2-user ec2-user 53 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]\$ pwd
/home/ec2-user/CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]\$ cp -r Finance HR
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls HR/Finance
ProfitAndLossStatements.csv Salary.csv
[ec2-user@ip-10-0-10-126 CompanyA]\$ rmmdir Finance
rmmdir: failed to remove 'Finance': Directory not empty
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finanace/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls Finance
[ec2-user@ip-10-0-10-126 CompanyA]\$ rmmdir Finance
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls
HR Management
[ec2-user@ip-10-0-10-126 CompanyA]\$

Redir Finance deleted the Finance folder and ls shows theres only HR and Management folder remaining.

47. To move the **Management** folder inside the **HR** folder, enter **mv Management HR** and press Enter.

48. To verify that the folder and files were moved, enter **ls . HR/Management** and press Enter.

```
[ec2-user@ CompanyA]$ ls . HR/Management
[ec2-user@ CompanyA]$
```

49. To navigate inside the **HR** folder, enter **cd HR** and press Enter.

50. To create the **Employees** folder, enter **mkdir Employees** and press Enter.

51. To move the files to this folder, enter **mv Assessments.csv TrialPeriod.csv Employees** and press Enter.

52. To verify that the files were moved, enter **ls . Employees** and press Enter.

```
[ec2-user@ HR]$ ls . Employees
[ec2-user@ HR]$
```

./HR:
total 0
drwxrwxr-x 2 ec2-user ec2-user 52 Sep 23 11:51 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Assessments.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 11:51 Trialperiod.csv
./Management:
total 0
drwxrwxr-x 2 ec2-user ec2-user 46 Sep 23 12:00 .
drwxrwxr-x 5 ec2-user ec2-user 49 Sep 23 11:48 ..
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Managers.csv
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 23 12:00 Schedule.csv
[ec2-user@ip-10-0-10-126 CompanyA]\$ pwd
/home/ec2-user/CompanyA
[ec2-user@ip-10-0-10-126 CompanyA]\$ cp -r Finance HR
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls HR/Finance
ProfitAndLossStatements.csv Salary.csv
[ec2-user@ip-10-0-10-126 CompanyA]\$ rmmdir Finance
rmmdir: failed to remove 'Finance': Directory not empty
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finanace/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finanace/Salary.csv
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls Finance
[ec2-user@ip-10-0-10-126 CompanyA]\$ rmmdir Finance
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls
HR Management
[ec2-user@ip-10-0-10-126 CompanyA]\$ mv Management HR
[ec2-user@ip-10-0-10-126 CompanyA]\$ ls . HR/Management
[ec2-user@ HR]\$

Moved Management file to HR and also confirmed using the ls command.

```

[ec2-user@ip-10-0-10-126:~/CompanyA/HR]
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Finance
[ec2-user@ip-10-0-10-126 CompanyA]$ rmdir Finance
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ mv Management HR
[ec2-user@ip-10-0-10-126 CompanyA]$ ls . HR/Management
.:
HR

HR/Management:
Managers.csv Schedule.csv
[ec2-user@ CompanyA]$ ls . HR/Management
.:
HR

HR/Management:
Managers.csv Schedule.csv
[ec2-user@ CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ mkdir Employees
[ec2-user@ip-10-0-10-126 HR]$ mv Assessments.csv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ mv Assessments.csv Employees
mv: cannot stat 'Assessments.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ ls .
.:
Employees Finance Management Trialperiod.csv

Employees:
Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ mv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ mv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ ls .
.:
Employees Finance Management Trialperiod.csv

Employees:
Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ ls .
.:
Employees Finance Management

Employees:
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls

```

48. To verify that the folder and files were moved, enter `ls . HR/Management` and press Enter.

```
[ec2-user@ CompanyA]$ ls . HR/Management
.:
HR
```

49. To navigate inside the `HR` folder, enter `cd HR` and press Enter.

50. To create the `Employees` folder, enter `mkdir Employees` and press Enter.

51. To move the files to this folder, enter `mv Assessments.csv TrialPeriod.csv Employees` and press Enter.

52. To verify that the files were moved, enter `ls . Employees` and press Enter.

```
[ec2-user@ HR]$ ls . Employees
.:
Employees Finance Management

Employees/:
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$
```

Created a folder called `Employee`, then moved `Trialperiod.csv` and `Assessment.csv` to the `Employees` folder and confirmed the movement using `ls` command.

Lab Complete

```

[ec2-user@ip-10-0-10-126:~/CompanyA/HR]
rm: cannot remove 'Finance/ProfitAndLossStatements.csv': No such file or directory
rm: cannot remove 'Finance/Salary.csv': No such file or directory
[ec2-user@ip-10-0-10-126 CompanyA]$ ls Finance
[ec2-user@ip-10-0-10-126 CompanyA]$ rmdir Finance
[ec2-user@ip-10-0-10-126 CompanyA]$ ls
HR Management
[ec2-user@ip-10-0-10-126 CompanyA]$ mv Management HR
[ec2-user@ip-10-0-10-126 CompanyA]$ ls . HR/Management
.:
HR

HR/Management:
Managers.csv Schedule.csv
[ec2-user@ CompanyA]$ ls . HR/Management
.:
HR

HR/Management:
Managers.csv Schedule.csv
[ec2-user@ CompanyA]$ cd HR
[ec2-user@ip-10-0-10-126 HR]$ mkdir Employees
[ec2-user@ip-10-0-10-126 HR]$ mv Assessments.csv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ mv Assessments.csv Employees
mv: cannot stat 'Assessments.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ ls .
.:
Employees Finance Management Trialperiod.csv

Employees:
Assessments.csv
[ec2-user@ip-10-0-10-126 HR]$ mv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ mv TrialPeriod.csv Employees
mv: cannot stat 'TrialPeriod.csv': No such file or directory
[ec2-user@ip-10-0-10-126 HR]$ ls .
.:
Employees Finance Management Trialperiod.csv

Employees:
Assessments.csv Trialperiod.csv
[ec2-user@ip-10-0-10-126 HR]$ ls

```

Are you sure you want to end the lab?

Yes **No**

50. To create the `Employees` folder, enter `mkdir Employees` and press Enter.

51. To move the files to this folder, enter `mv Assessments.csv TrialPeriod.csv Employees` and press Enter.

52. To verify that the files were moved, enter `ls . Employees` and press Enter.

```
[ec2-user@ HR]$ ls . Employees
.:
Employees Finance Management

Employees/:
Assessments.csv TrialPeriod.csv
[ec2-user@ HR]$
```

Lab Complete

Congratulations! You have completed the lab.

53. Select `End Lab` at the top of this page and then select `Yes` to confirm that you want to end the lab.

A panel will appear, indicating that "DELETE has been initiated... You may

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