

## **Working with the File System**

### **Step-by-Step Manual for Creating and Reorganizing Folder Structure**

#### **Task 1: Create a Folder Structure**

In this task, you will create a specific folder structure from the /home/ec2-user directory.

##### **Step 1: Navigate to the Home Directory**

1. Open your terminal.
2. Check your current directory by typing:
3. `pwd`
  - If you are not in the home directory (/home/ec2-user), change to it by typing:
  - `cd /home/ec2-user`

##### **Step 2: Create the CompanyA Directory**

1. To create the top-level CompanyA directory, enter the following command:
2. `mkdir CompanyA`

##### **Step 3: Navigate to the CompanyA Directory**

1. Change into the CompanyA directory by typing:
2. `cd CompanyA`

##### **Step 4: Create Subdirectories (Finance, HR, and Management)**

1. To create the subdirectories inside CompanyA, enter:
2. `mkdir Finance HR Management`
3. Validate that the directories were created by typing:
4. `ls`

You should see:

Finance HR Management

##### **Step 5: Create Files in the Finance Folder**

1. Change to the Finance directory:
2. `cd HR`

3. To create the files Assessments.csv and TrialPeriod.csv in the HR folder, use the touch command:
4. touch Assessments.csv TrialPeriod.csv
5. Validate the files were created by typing:
6. ls

You should see:

Assessments.csv TrialPeriod.csv

### **Step 6: Navigate to the CompanyA Directory**

1. Go back to the CompanyA folder by typing:
2. cd ..

### **Step 7: Create Files in the Management Folder**

1. Inside the Management directory, create the files Managers.csv and Schedule.csv:
2. touch Managers.csv Schedule.csv
3. Validate the files were created by typing:
4. ls Management

You should see:

Managers.csv Schedule.csv

### **Step 8: Validate the Full Directory Structure**

1. To ensure the entire folder structure is correct, type the following command:
2. ls -laR

This will display all directories and files recursively.

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## **Task 2: Delete and Reorganize Folders**

A few weeks later, you need to reorganize the content as per a new structure.

### **Step 1: Validate Your Current Location**

1. To ensure you are in the CompanyA directory, use:

2. `pwd`

The output should be:

```
/home/ec2-user/CompanyA
```

### **Step 2: Copy the Finance Folder to HR**

1. To copy the Finance folder and its contents into the HR folder, enter:
2. `cp -r Finance HR`
3. Verify that the contents were copied by listing the HR/Finance folder:
4. `ls HR/Finance`

You should see:

```
ProfitAndLossStatements.csv Salary.csv
```

### **Step 3: Remove the Finance Folder from CompanyA**

1. To delete the contents of the Finance folder, enter:
2. `rm Finance/ProfitAndLossStatements.csv Finance/Salary.csv`
3. Verify that the Finance folder is empty:
4. `ls Finance`

The folder should be empty.

5. Remove the empty Finance folder by typing:
6. `rmdir Finance`
7. Verify that the folder was removed:
8. `ls`

You should see:

```
HR Management
```

### **Step 4: Move the Management Folder into HR**

1. To move the Management folder inside the HR folder, use:
2. `mv Management HR`
3. Verify the move by listing the contents of HR/Management:

4. `ls HR/Management`

You should see:

`Managers.csv Schedule.csv`

#### **Step 5: Create an Employees Folder Inside HR**

1. Navigate into the HR folder:
2. `cd HR`
3. To create the Employees folder, use:
4. `mkdir Employees`

#### **Step 6: Move the HR Files into the Employees Folder**

1. Move the `Assessments.csv` and `TrialPeriod.csv` files into the newly created Employees folder:
2. `mv Assessments.csv TrialPeriod.csv Employees`
3. Verify that the files were moved by listing the Employees folder:
4. `ls Employees`

You should see:

`Assessments.csv TrialPeriod.csv`

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### **Summary**

By following the above steps, you have:

- Created a specific folder structure within `/home/ec2-user/CompanyA/` including Finance, HR, and Management directories with associated files.
- Reorganized the structure by moving the Finance and Management directories into HR, and created an Employees folder to store specific files.