

Manage Files with Linux Commands

Skills Acquired:

- Create and remove directories
- Copy, move, and remove files
- Edit files with the nano text editor

Scenario:

In this scenario, you need to ensure that the /home/analyst directory is properly organized. You have to make a few changes to the /home/analyst directory and the files it contains. You also have to edit a file to record the changes or updates you make to the directory. When you start, the /home/analyst directory contains the following subdirectories and files:

```
home
├── analyst
│   ├── notes
│   │   ├── Q3patches.txt
│   │   └── tempnotes.txt
│   └── reports
│       ├── Q1patches.txt
│       └── Q2patches.txt
└── temp
```

You need to modify the /home/analyst directory to the following directory and file structure:

home

└─ analyst

└─ logs

└─ notes

└─ tasks.txt

└─ reports

└─ Q1patches.txt

└─ Q2patches.txt

└─ Q3patches.txt

Task 1. Create a new directory

First, you must create a dedicated subdirectory called logs, which will be used to store all future log files.

1. Create a new subdirectory called logs in the /home/analyst directory.
2. List the contents of the /home/analyst directory to confirm that you've successfully created the new logs subdirectory.

```
analyst@0d729b0f7984:~$ pwd
/home/analyst
analyst@0d729b0f7984:~$ ls
notes  reports  temp
analyst@0d729b0f7984:~$ mkdir logs
analyst@0d729b0f7984:~$ ls
logs  notes  reports  temp
analyst@0d729b0f7984:~$
```

Task 2. Remove a directory

Next, you must remove the temp directory, as you'll no longer be placing items in it.

1. Remove the /home/analyst/temp directory.
2. List the contents of the /home/analyst directory to confirm that you have removed the temp subdirectory.

```
analyst@0d729b0f7984:~$ ls
logs  notes  reports  temp
analyst@0d729b0f7984:~$ rmdir /home/analyst/temp
analyst@0d729b0f7984:~$ ls
logs  notes  reports
analyst@0d729b0f7984:~$
```

Task 3. Move a file

The Q3patches.txt file contains notes taken on third-quarter patches and is now in the correct reporting format.

You must move the Q3patches.txt file from the notes directory to the reports directory.

1. Navigate to the /home/analyst/notes directory.
2. Move the Q3patches.txt file from the /home/analyst/notes directory to the /home/analyst/reports directory.
3. List the contents of the /home/analyst/reports directory to confirm that you have moved the file successfully.

```
analyst@0d729b0f7984:~$ pwd
/home/analyst
analyst@0d729b0f7984:~$ ls
logs  notes  reports
analyst@0d729b0f7984:~$ cd notes
analyst@0d729b0f7984:~/notes$ mv Q3patches.txt /home/analyst/reports
analyst@0d729b0f7984:~/notes$ cd /home/analyst/reports
analyst@0d729b0f7984:~/reports$ ls
Q1patches.txt  Q2patches.txt  Q3patches.txt
analyst@0d729b0f7984:~/reports$
```

Task 4. Remove a file

Next, you must delete an unused file called `tempnotes.txt` from the `/home/analyst/notes` directory.

1. Remove the `tempnotes.txt` file from the `/home/analyst/notes` directory.
2. List the contents of the `/home/analyst/notes` directory to confirm that you've removed the file successfully.

No files should be listed in the notes directory.

```
analyst@0d729b0f7984:~/reports$ cd /home/analyst/notes
analyst@0d729b0f7984:~/notes$ ls
tempnotes.txt
analyst@0d729b0f7984:~/notes$ rm tempnotes.txt
analyst@0d729b0f7984:~/notes$ ls
analyst@0d729b0f7984:~/notes$
```

Task 5. Create a new file

Now, you must create a file named tasks.txt in the /home/analyst/notes directory that you'll use to document completed tasks.

1. Use the touch command to create an empty file called tasks.txt in the /home/analyst/notes directory.
2. List the contents of the /home/analyst/notes directory to confirm that you have created a new file.

```
analyst@0d729b0f7984:~/notes$ pwd
/home/analyst/notes
analyst@0d729b0f7984:~/notes$ touch tasks.txt
analyst@0d729b0f7984:~/notes$ ls
tasks.txt
analyst@0d729b0f7984:~/notes$
```

Task 6. Edit a file

Finally, you must use the nano text editor to edit the tasks.txt file and add a note describing the tasks you've completed.

1. Using the nano text editor, open the tasks.txt file that is located in the `/home/analyst/notes` directory.
2. Copy and paste the following text into the text input area of the nano editor:

Completed tasks

1. Managed file structure in `/home/analyst`
3. Press **CTRL+X** to exit the nano text editor.

4. Press **Y** to confirm that you want to save the new data to your file.
5. Press **ENTER** to confirm that **File Name to Write** is tasks.txt.
6. Use the clear command to clear the Bash shell window and remove any traces of the nano text input area.
7. Display the contents of the tasks.txt file to confirm that it contains the updated task details.

```
analyst@0d729b0f7984:~/notes$ cat tasks.txt
Completed tasks
1. Managed file structure in /home/analyst
analyst@0d729b0f7984:~/notes$
```