

Tasks

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Task 1: File Navigation and Directory Structure

Objective: Demonstrate basic file navigation and directory structure understanding.

Action Items:

List all files in the home directory using a single command.

Display the absolute path of the current working directory.

Create a new directory called Practice in the home directory and navigate into it.

```
rps@rps-virtual-machine:~$ ls
Assignments Desktop Documents Downloads GitProject Music phpinfo.php Pictures Projects Public snap Templates Videos
rps@rps-virtual-machine:~$ pwd
/home/rps
rps@rps-virtual-machine:~$ mkdir practice
rps@rps-virtual-machine:~$ cd practice
```

Task 2: File Management Commands

Objective: Use file management commands to organize files and directories.

Action Items:

In the Practice directory, create a new file called sample.txt.

Copy sample.txt to a new file called duplicate.txt.

Delete duplicate.txt using a command-line command.

```
rps@rps-virtual-machine:~/practice$ touch sample.txt
rps@rps-virtual-machine:~/practice$ cp sample.txt duplicate.txt
rps@rps-virtual-machine:~/practice$ rm duplicate.txt
```

Task 3: Using grep to Search within Files

Objective: Utilize grep to search text within files.

Action Items:

Use grep to find all instances of the word "Linux" in the LinuxHistory.txt file.

Redirect the output to a new file called LinuxInstances.txt.

```
rps@rps-virtual-machine:~/practice$ vi Linuxhistory.txt
rps@rps-virtual-machine:~/practice$ grep "Linux" Linuxhistory.txt>LinuxInstance.txt
rps@rps-virtual-machine:~/practice$ ls
Linuxhistory.txt LinuxInstance.txt sample.txt
```

Task 4: Permissions and Ownership

Objective: Understand and modify file permissions and ownership.

Action Items:

View the current permissions for sample.txt.

Change the permissions to read-only for the owner and no permissions for others.

```
rps@rps-virtual-machine:~/practice$ ls -l sample.txt
-rw-rw-r-- 1 rps rps 0 May  9 14:36 sample.txt
rps@rps-virtual-machine:~/practice$ chmod 400 sample.txt
rps@rps-virtual-machine:~/practice$ ls -l sample.txt
-r----- 1 rps rps 20 May  9 14:47 sample.txt
```