

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.

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.

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.

Task 4: Permissions and Ownership

Objective: Understand and modify file permissions and ownership.

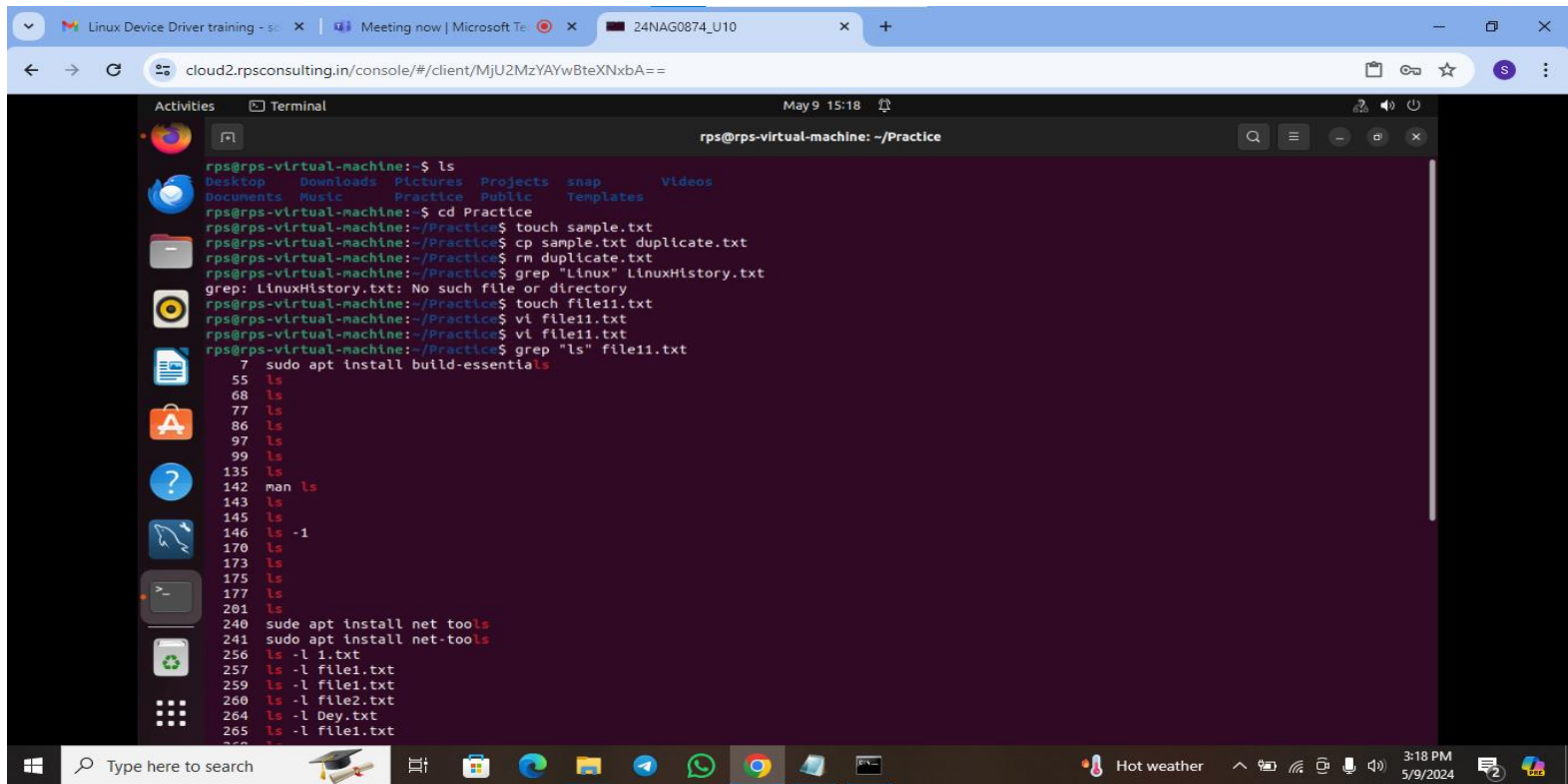
Action Items:

View the current permissions for sample.txt.

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

Change the ownership of LinuxHistory.txt to another user (assuming one exists).

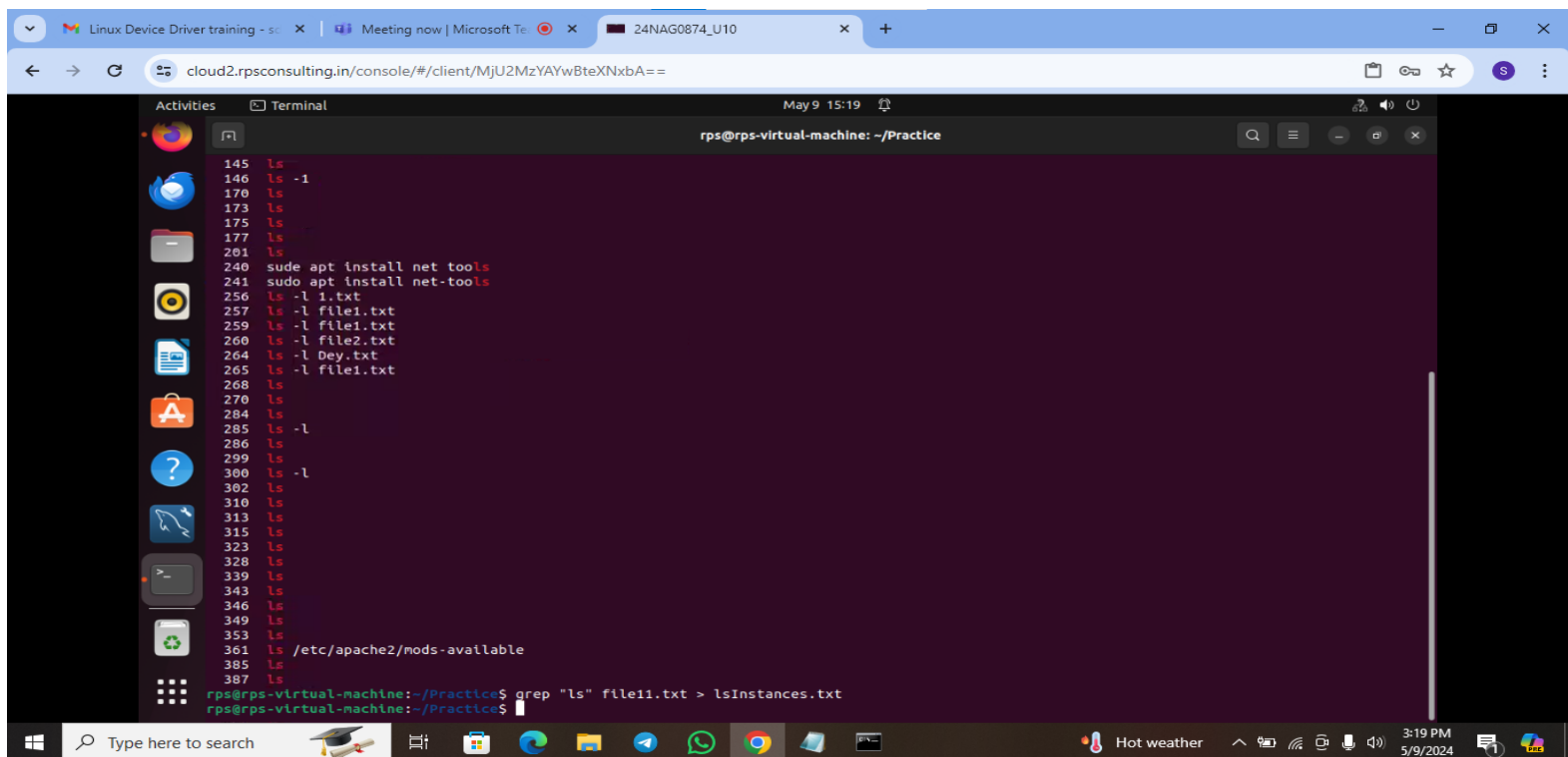
ANSWER:



The screenshot shows a terminal window titled "rps@rps-virtual-machine: ~/Practice" with the following commands and output:

```
rps@rps-virtual-machine:~$ ls
Desktop  Downloads  Pictures  Projects  snap      Videos
Documents Music      Practice Public    Templates

rps@rps-virtual-machine:~$ cd Practice
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
rps@rps-virtual-machine:~/Practice$ grep "Linux" LinuxHistory.txt
grep: LinuxHistory.txt: No such file or directory
rps@rps-virtual-machine:~/Practice$ touch file11.txt
rps@rps-virtual-machine:~/Practice$ vi file11.txt
rps@rps-virtual-machine:~/Practice$ grep "ls" file11.txt
7 sudo apt install build-essential
55 ls
68 ls
77 ls
86 ls
97 ls
99 ls
135 ls
142 man ls
143 ls
145 ls
146 ls -l
170 ls
173 ls
175 ls
177 ls
201 ls
240 sudo apt install net-tools
241 sudo apt install net-tools
256 ls -l 1.txt
257 ls -l file1.txt
259 ls -l file1.txt
260 ls -l file2.txt
264 ls -l Dey.txt
265 ls -l file1.txt
```



The screenshot shows the continuation of the terminal window with the following commands and output:

```
145 ls
146 ls -l
170 ls
173 ls
175 ls
177 ls
201 ls
240 sudo apt install net-tools
241 sudo apt install net-tools
256 ls -l 1.txt
257 ls -l file1.txt
259 ls -l file1.txt
260 ls -l file2.txt
264 ls -l Dey.txt
265 ls -l file1.txt
268 ls
270 ls
284 ls
285 ls -l
286 ls
299 ls
300 ls -l
302 ls
310 ls
313 ls
315 ls
323 ls
328 ls
339 ls
343 ls
346 ls
349 ls
353 ls
361 ls /etc/apache2/mods-available
385 ls
387 ls
rps@rps-virtual-machine:~/Practice$ grep "ls" file11.txt > lsinstances.txt
rps@rps-virtual-machine:~/Practice$
```

Linux Device Driver training x Meeting now | Microsoft x 24NAG0874_U10 x Linux Projects - Simple Net x HTTP Protocol - Definition x

cloud2.rpsconsulting.in/console/#/client/MjU2MzYAYwBteXNxbA==

Activities Text Editor May 9 15:16

Home / Practice

file11.txt lsinstances.txt sample.txt

lsinstances.txt
~/Practice

```
1 7 sudo apt install build-essentials
2 55 ls
3 68 ls
4 77 ls
5 86 ls
6 97 ls
7 99 ls
8 135 ls
9 142 man ls
10 143 ls
11 145 ls
12 146 ls -l
13 170 ls
14 173 ls
15 175 ls
16 177 ls
17 201 ls
18 240 sudo apt install net tools
19 241 sudo apt install net-tools
20 250 ls -l 1.txt
21 257 ls -l file1.txt
```

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