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Assignment 1 – Unit-1: Linux Basics



& Objective

Practice essential Linux commands by re-running lab files from Unit-1 and documenting commands, outputs, and explanations.

Tasks Overview

- Navigate to the Unit-1 folder
- Run and document commands from Lab3 and Lab5
- Answer extra questions
- ◇ Complete the checklist

├ Step 1: Go to Unit-1 Folder

cd Unit-1

i cd changes your current directory. Here, you enter the Unit-1/ folder containing lab files.

Step 2: Commands from Lab3

Command 1: List Files (Long Format)

ls -1

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```
ujjwal-tyagi@ujjwal-tyagi:~$ ls -l
total 72
-rw-rw-r-- 1 ujjwal-tyagi ujjwal-tyagi 17 Aug 14 18:44 combined.txt
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug
                                                6 18:55
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug
                                                6 18:55
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug  6 18:55
-rw-rw-r-- 1 ujjwal-tyagi ujjwal-tyagi
                                        70 Aug 12 18:58
                                                         helow.c
-rw-rw-r-- 1 ujjwal-tyaqi ujjwal-tyaqi
                                        71 Aug 12 18:49 'helow.c hello world
-rw-rw-r-- 1 ujjwal-tyagi ujjwal-tyagi
                                         0 Aug 14 16:01
                                                         homework.doc
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug
                                                6 18:55
drwxrwxr-x 5 ujjwal-tyagi ujjwal-tyagi 4096 Aug 7 14:44
drwxrwxr-x 6 ujjwal-tyagi ujjwal-tyagi 4096 Aug 14 18:32
drwxrwxr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug 14 18:35
drwxrwxr-x 4 ujjwal-tyagi ujjwal-tyagi 4096 Aug 14 11:03
drwxr-xr-x 3 ujjwal-tyagi ujjwal-tyagi 4096 Aug 7 11:29
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug 6 18:55
-rw-rw-r-- 1 ujjwal-tyagi ujjwal-tyagi 187 Aug 14 18:51
                                                         rellish.txt
-rw-rw-r-- 1 ujjwal-tyagi ujjwal-tyagi
                                         0 Aug 14 16:49
                                                         resume.docx
drwx----- 6 ujjwal-tyagi ujjwal-tyagi 4096 Aug
                                                6 21:00
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug 6 18:55
drwxrwxr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug 7 10:26
drwxr-xr-x 2 ujjwal-tyagi ujjwal-tyagi 4096 Aug
                                                6 18:55
ujjwal-tyagi@ujjwal-tyagi:~$
```

Explanation:

1s -1 lists files and directories in long format, showing permissions, owner, group, size, and modification date.

Command 2: Show Current Directory

pwd

ujjwal-tyagi@ujjwal-tyagi:~\$ pwd
/home/ujjwal-tyagi

Explanation:

pwd prints the current working directory, confirming your location in the filesystem.

Step 3: Commands from Lab5

Command 1: View File Contents

cat rellish.txt

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ujjwal-tyagi@ujjwal-tyagi:~\$ cat rellish.txt hello everyone

Explanation:

cat displays the contents of a file directly in the terminal.

Command 2: Show Current User

whoami

ujjwal-tyagi@ujjwal-tyagi:~\$ whoami
ujjwal-tyagi

Explanation:

whoami prints the username of the current user.

? Extra Questions

- ▶ What is the difference between chmod and chown?
 - **chmod**: Changes file **permissions** (read, write, execute).
 - **chown**: Changes file **ownership** (user or group).
- ▶ ☐ How do you check current directory and user?
 - Current directory: pwd
 - Current user: whoami (e.g., ujjwal-tyagi)

≯ End of Assignment 1 – Linux Basics **≯**