

- 1s -1 → Detailed list (permissions, size, date)
- 1s -a → Shows hidden files (those starting with . )
- 1s -1a → Combined

```
vboxuser@ubuntu1:-/Desktop$ ls
hello hello.c parent_folder
```

#### cd – Change Directory

Moves into a directory.

```
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cd folder_name
```

```
vboxuser@ubuntu1:~/Desktop$ cd parent_folder
vboxuser@ubuntu1:~/Desktop/parent_folder$ mkd Examples:
```

```
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cd Documents
                # Go to Documents
cd ..
                # Go up one level
cd /
                # Go to root
cd ~
                # Go to home directory
```

### 2. File and Directory Management

### mkdir - Make Directory

Creates a new folder.

```
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mkdir new_folder
```

vboxuser@ubuntu1:~/Desktop/parent\_folder\$ mkdir newfolder

#### touch - Create File

Creates an empty file.

touch file.txt

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### vboxuser@ubuntu1:~/Desktop/parent\_folder\$ touch file.txt

#### cp - Copy Files or Directories

cp source.txt destination.txt



#### vboxuser@ubuntu1:~/Desktop/parent\_folder\$ cp file.txt file2.txt

• Copy folder:

cp -r folder1 folder2



vboxuser@ubuntu1:~/Desktop/parent\_folder\$ mkdir folder2 vboxuser@ubuntu1:~/Desktop/parent\_folder\$ cp -r newfolder folder2

#### my - Move or Rename Files

mv oldname.txt newname.txt



mv file.txt ~/Documents/ # Move file



#### rm - Remove Files

rm file.txt # Delete file rm -r folder name # Delete folder (recursively)



#### vboxuser@ubuntu1:~/Desktop/parent\_folder\$ rm file.txt



Be careful! There is no undo.



# 3. File Viewing & Editing

#### cat - View File Contents

Displays content in terminal.

cat file.txt



#### nano – Edit Files in Terminal

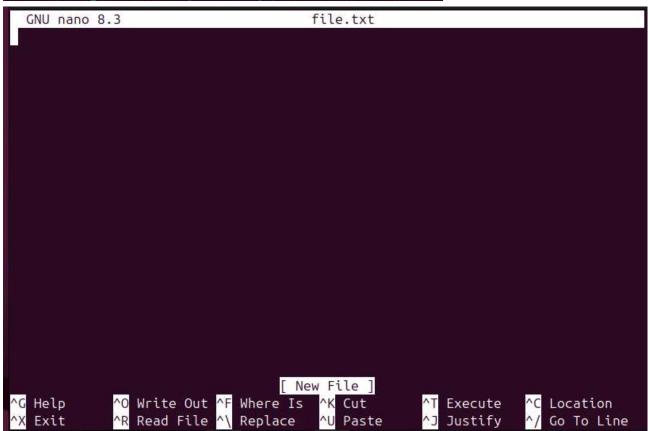
A basic terminal-based text editor.

nano file.txt



- Use arrows to move
- CTRL + 0 to save
- CTRL + X to exit

#### \$ nano file.txt



#### clear - Clears the Terminal

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### Shortcut: CTRL + L

vboxuser@ubuntu1:~/Desktop/parent\_folder\$



## 4. System Commands

#### echo - Print Text

Useful for debugging or scripting.

echo "Hello, World!"

# vboxuser@ubuntu1:~/Desktop/parent\_folder\$ echo "hello world" hello world

#### whoami - Show Current User

whoami

vboxuser@ubuntu1:~/Desktop/parent\_folder\$ whoami
vboxuser

#### man - Manual for Any Command

man 1s

Use q to quit the manual.

### 5. Searching and Finding

#### find - Locate Files

find . -name "\*.txt"

Finds all .txt files in current folder and subfolders.

## alt text

#### grep - Search Inside Files

grep "hello" file.txt

Searches for the word hello inside file.txt.



### 6. Helpful Shortcuts

Shortcut	Action
Tab	Auto-complete files/folders
↑ / ↓	Browse command history
CTRL + C	Stop a running command
CTRL + L	Clear screen

### **7. Bonus: Chaining Commands**

• Run multiple commands:

mkdir test && cd test && touch hello.txt



- Run only if previous command succeeds: &&
- Run regardless of success: ;

// What is differece b\w chmod and chown? =>chmod

changes permissions of a file or directory. decides whether a user can read, write, or execute a file. affects access rights.

=>chown

changes the ownership of a file or directory. decides which user or group owns the file. chown affects file ownership.