dir / ls (5):

Use dir / ls to list all files and folders in your current directory. How many files are there? (Excluding hidden files if applicable)



There are one file.

Utilize dir / ls with appropriate flags to display only files with a specific extension (e.g., .txt). How many files of that type exist?

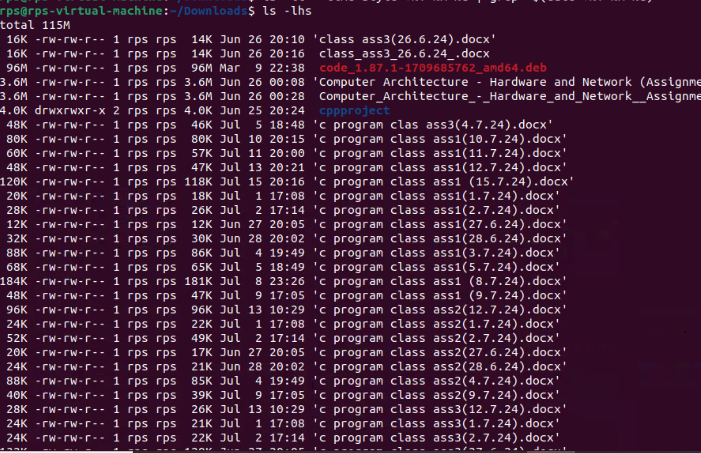


No such file are exist.

Navigate to your Downloads folder using cd. Then, use dir / ls to list the contents. Are there any recently downloaded files (modified today)?

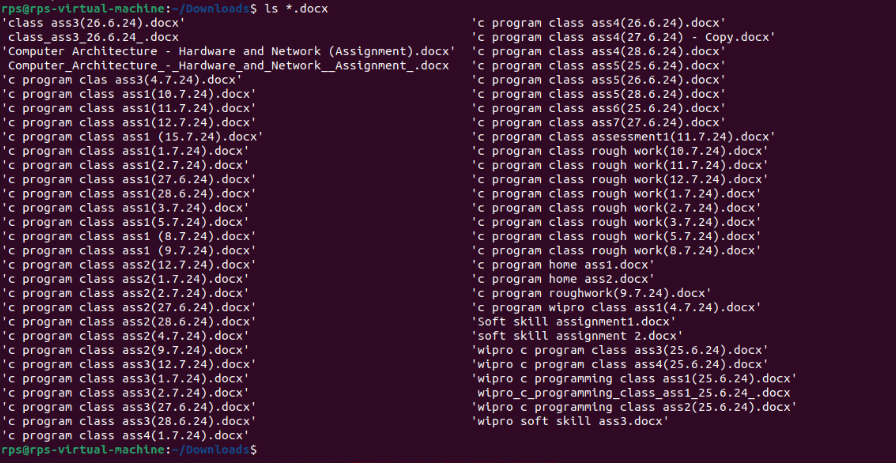


Use dir / ls with flags to display both the filename and its size for each file in your current directory. Identify the largest file.



The red one is the largest file among all.

Practice using dir / ls with wildcards (e.g., dir \*.docx) to list all files with a specific extension pattern (e.g., all Word documents).

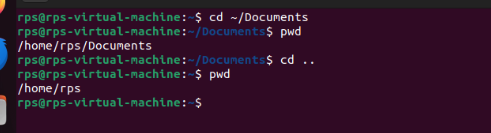


Cd (5) :

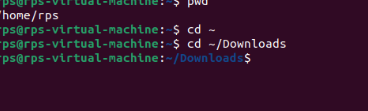
Use cd to navigate to your Documents folder. What is the full path of your Documents folder displayed by the prompt?

Practice using cd .. to move back one directory level from your current location.

Utilize pwd to display the full path of the current directory after navigating with cd.



Explore using directory shortcuts (e.g., ~ for home directory) with cd to quickly reach specific locations.



Combine cd with dir / ls to navigate to a specific folder and then list its contents.

**cp / mv (5):**

**Identify a file on your Desktop. Use cp to copy that file to your Documents folder. Verify the copy exists in Documents.**

**Practice renaming a file on your Desktop using mv. Give it a new name and confirm the change using dir / ls.**

**Locate a folder containing images. Use cp to copy a specific image file from that folder to another folder.**

**Explore using mv to move a folder containing documents to a different location within your file system.**

**Try copying a file that already exists in the destination folder. What happens? (Experiment with different flags for cp if applicable on your system)**

**mkdir / rmdir (5):**

Sure, let's go through each part step by step.

**Part 1: Using `cp` to copy a file**

1. Identify a file on your Desktop : Let's say the file we want to copy is `example.txt` located on the Desktop.
2. Copy the file to your Documents folder : Open a terminal and use the `cp` command:

cp ~/Desktop/example.txt ~/Documents/

This command copies `example.txt` from the Desktop to the Documents folder.

1. Verify the copy : To verify that the file exists in the Documents folder, you can list the contents of the Documents folder:

ls ~/Documents/

You should see `example.txt` listed among the files in your Documents folder.

**Part 2: Using `mv` to rename a file**

1. Rename a file on your Desktop : Let's rename `example.txt` to `newname.txt` using the `mv` command:

mv ~/Desktop/example.txt ~/Desktop/newname.txt

This command renames `example.txt` to `newname.txt` on the Desktop.

1. Confirm the change : To confirm the file has been renamed, list the files on the Desktop: ls ~/Desktop/

You should see `newname.txt` listed instead of `example.txt`.

**Part 3: Using `cp` to copy an image file**

1. Locate a folder containing images : Assume there's a folder `~/Pictures/` that contains image files.
2. Copy a specific image file : Let's copy `photo.jpg` from `~/Pictures/` to `~/Documents/`: cp ~/Pictures/photo.jpg ~/Documents/

This copies `photo.jpg` from the Pictures folder to the Documents folder.

**Part 4: Using `mv` to move a folder**

1. Move a folder containing documents: Assume there's a folder `~/Documents/Reports/` that contains documents.
2. Move the folder to a different location: Let's move `Reports` from `~/Documents/` to `~/Desktop/ mv ~/Documents/Reports ~/Desktop/

This moves the entire `Reports` folder from Documents to the Desktop.

**Part 5: Handling existing files with `cp'**

1. Copying a file that already exists in the destination folder **:** If `example.txt` already exists in

`~/Documents/` and you try to copy it again: cp ~/Desktop/example.txt ~/Documents/

By default, `cp` will not overwrite the existing `example.txt`. It will give an error message like `cp: overwrite '~/Documents/example.txt'?`.

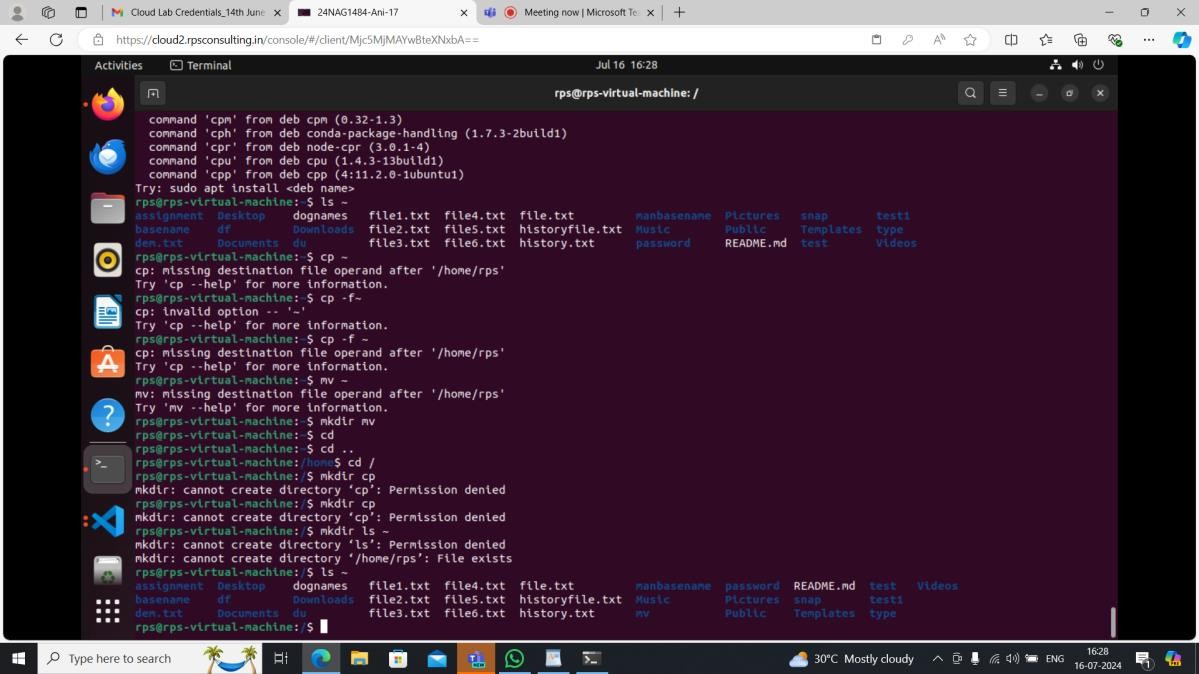
1. Using flags for `cp`: To force overwrite existing files without prompting, you can use the `-f` (force) flag:

cp -f ~/Desktop/example.txt ~/Documents/

This will overwrite `example.txt` in `~/Documents/` without asking for confirmation.

**Summary**

* `cp`: Used for copying files or directories.
* `mv`: Used for renaming files or moving files/directories.
* Pay attention to existing files when using `cp` to avoid accidental overwrites.
* Verify operations using `ls` or `dir` commands after each action to ensure desired changes have taken place.



**mkdir / rmdir (5):**

**Create a new folder named "Project Reports" inside your Documents folder using mkdir. Verify its**

**existence using dir / ls.**

**Practice using mkdir with multiple arguments to create a nested folder structure (e.g., mkdir Documents/ProjectX/Reports).**

**Locate an empty folder you created earlier. Use rmdir to delete it. Confirm its removal with dir / ls. Explore using dir / ls to identify empty folders within a specific directory.**

1. **Create a new folder named "Project Reports" inside your Documents folder using mkdir. Verify its existence using dir / ls.**

Assuming you're on a Unix-like system (Linux or macOS), here's how you would do it: mkdir ~/Documents/Project\ Reports

* `mkdir`: Command to create a directory.
* `~/Documents/Project\ Reports`: Path to the new directory, where `~` represents your home directory. To verify its existence, you can use `ls` (on Unix-like systems) or `dir` (on Windows):

ls ~/Documents

dir C:\Users\YourUsername\Documents

Look for the "Project Reports" directory in the output to confirm it exists.

1. **Practice using mkdir with multiple arguments to create a nested folder structure (e.g., mkdir Documents/ProjectX/Reports).**

To create nested folders:

mkdir -p ~/Documents/ProjectX/Reports

* + `-p` option: Allows mkdir to create parent directories as needed.

This command creates the `ProjectX` directory inside `Documents`, and then the `Reports` directory inside `ProjectX`.

1. **Locate an empty folder you created earlier. Use rmdir to delete it. Confirm its removal with dir / ls.**

Find the folder you want to delete. Let's assume it's `~/Documents/EmptyFolder`. rmdir ~/Documents/EmptyFolder

* + `rmdir`: Command to remove a directory (it only works if the directory is empty). After running `rmdir`, confirm its removal:

ls ~/Documents

dir C:\Users\YourUsername\Documents Ensure that `EmptyFolder` is no longer listed.

1. **Explore using dir / ls to identify empty folders within a specific directory.**

To find empty folders within a directory (`~/Documents` for example): find ~/Documents -type d -empty

* + `find`: Command to search for files and directories.
  + `~/Documents`: The directory you want to search within.
  + `-type d`: Only search for directories.
  + `-empty`: Only find directories that are empty.

This command will list any empty directories within `~/Documents`.

