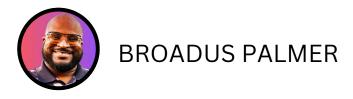
BEGINNER'S

LINUX CHEATSHEET

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Basic Navigation Commands





(Print Working Directory)

What it does: Shows you the folder you're currently in.





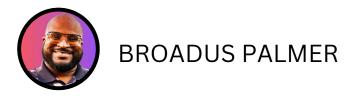
(list)

What it does:

Lists the files and folders in the current location.

Options:

- **Is -a**: Shows hidden files (those that start with .).
- **Is -I**: Shows detailed information like permissions, size, and date.





Basic Navigation Commands





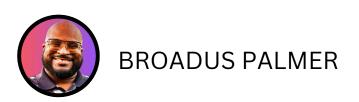
(Change Directories)

What it does:

Moves you to a different folder.

Examples:

- cd Documents: Go to the "Documents" folder.
- cd .. : Move up one folder level.





File and Folder Management



(Make Directory)

What it does:

Creates a new folder.

• Example: mkdir my_folder





(Touch)

What it does:

Makes a new, empty file.

• Example: touch myfile.txt





(Copy)

What it does:

Copies a file or folder to another location.

Examples:

- cp file.txt copy_file.txt: Copies file.txt to copy_file.txt.
- cp -r folder1/ folder2/: Copies everything inside folder1 to folder2.



File and Folder Management



(Move/Rename)

What it does:

Moves or renames files and folders.

Examples:

- mv file.txt /home/user/: Moves file.txt to the /home/user folder.
- mv old_name.txt new_name.txt: Renames old_name.txt to new_name.txt.





(Remove)

- What it does:
- Deletes files or folders.
- Examples:
 - orm file.txt: Deletes file.txt.
 - rm -r folder/: Deletes the folder and everything inside it.
- ⚠ Warning: Deleted files are gone for good when using this command. No "trash" to restore from.



Viewing Content and Permissions





(Concatenate and Display)

What it does:

Shows the contents of a file.

• Example: cat file.txt

chmod



(Change Mode)

What it does:

Changes the permissions of a file or folder.

- Example: chmod 755 file.txt
- **7** = full permissions (read, write, execute)
- **5** = read and execute only



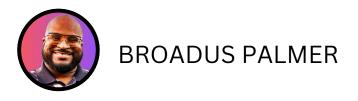
Permissions Breakdown

In Linux, permissions are shown as **rwx (letters)** or as **numbers**. Here's a simple breakdown:

Each letter represents a different type of permission:

- r = Read (can open and see the contents of a file or folder)
- w = Write (can edit or delete the file or add/remove files from a folder)
- x = Execute (can run the file if it's a program or script, or "enter" a folder)

If a letter is missing (like r--), it means that permission is not allowed.





Permissions Breakdown

Structure of Permissions

The permissions are grouped into three sets:

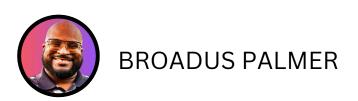
- 1. **Owner** (the person who created the file or folder)
- 2.**Group** (other users in the same group as the owner)
- 3. Others (everyone else)

Example



-rwxr-xr--

- rwx (Owner): Read, write, and execute permissions
- r-x (Group): Read and execute, but no write permission
- r-- (Others): Only read permission





Numbers for Permissions

Numbers for Permissions

Each permission has a number assigned to it:

- r (read) = 4
- w (write) = 2
- x (execute) = 7
- (no permission) = 0

To set permissions, you add the numbers for the permissions you want.

Examples of Permission Numbers



$$\mathbf{0} = \mathbf{---}$$
 (no permissions) $\mathbf{4} = \mathbf{r} \mathbf{---}$ (only read)

$$1 = --x$$
 (only execute)

$$3 = -wx$$
 (write and

$$1 = --x$$
 (only execute) $5 = r-x$ (read and execute: $4 + 1$)

$$6 = rw$$
- (read and write: $4 + 2$)

$$4 + 2 + 1$$



Numbers for Permissions

When you use chmod, you set permissions for owner, group, and others in that order.

Example



chmod 755 file.txt

What it means:

7 (Owner) = rwx (full permission: 4 + 2 + 1)

5 (Group) = r-x (read and execute: 4 + 1)

5 (Others) = r-x (read and execute: 4 + 1)

Common Permission Numbers



777 = rwxrwxrwx (everyone has full permission)

755 = rwxr-xr-x (owner has full permission, others can only read and execute)

700 = rwx----- (only the owner has full permission)

644 = rw-r--r-- (owner can read and write, others can only read)

600 = rw----- (only the owner can read and write, no one else can access)





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