

linux commands with explanation (ubuntu linux)

Here's a list of essential **Ubuntu Linux commands** with clear explanations and examples:

File & Directory Management

1. pwd

Print Working Directory – Shows your current location in the filesystem.

```
bash
```

 Copy code

```
pwd
```

2. ls

List files and directories.

```
bash
```

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```
ls
```

```
ls -l      # detailed list
```

```
ls -a     # show hidden files
```

3. cd

Change Directory

```
bash
```

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```
cd /home
```

```
cd ..      # move up one directory
```

```
cd ~       # go to home directory
```

4. mkdir

Make Directory

```
bash
```

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```
mkdir new_folder
```

5. rmdir

Remove empty directory

```
bash
```

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```
rmdir folder_name
```

6. rm

Remove files or directories

```
bash
```

 Copy code

```
rm file.txt
rm -r folder_name    # remove folder recursively
rm -f file.txt        # force remove
```

7. cp

Copy files or directories

```
bash
```

 Copy code

```
cp file.txt backup.txt
cp -r folder1 folder2
```

8. mv

Move or rename files

```
bash
```

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```
mv file.txt /home/user/
mv old.txt new.txt
```

File Viewing & Editing

9. cat

Display file contents

```
bash
```

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```
cat file.txt
```

10. less

View file page by page.

```
bash
```

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```
less file.txt
```

11. head

Show first 10 lines.

```
bash
```

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```
head file.txt
```

```
head -n 20 file.txt
```

12. tail

Show last 10 lines.

```
bash
```

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```
tail file.txt
```

```
tail -f logfile.log    # live monitoring
```

13. nano

Simple text editor.

```
bash
```

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```
nano file.txt
```

14. vim

Advanced text editor.

```
bash
```

 Copy code

```
vim file.txt
```

Search & Find

15. find

Search for files.

```
bash
```

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```
find /home -name file.txt
```

16. grep

Search text inside files.

```
bash
```

 Copy code

```
grep "word" file.txt
```

```
grep -r "word" /home
```

System Information

17. uname

System information.

```
bash
```

 Copy code

```
uname -a
```

18. top

Shows running processes in real time.

```
bash
```

 Copy code

```
top
```

19. htop

Enhanced version of top (may require installation).

```
bash
```

 Copy code

```
htop
```

20. df

Disk space usage.

```
bash
```

 Copy code

```
df -h
```

21. du

Directory space usage.

```
bash
```

 Copy code

```
du -sh folder_name
```

22. free

Memory usage.

```
bash
```

 Copy code

```
free -h
```



Package Management (Ubuntu – uses APT)

23. `sudo apt update`

Update package list.

```
bash
```

[Copy code](#)

```
sudo apt update
```

24. `sudo apt upgrade`

Upgrade installed packages.

```
bash
```

[Copy code](#)

```
sudo apt upgrade
```

25. `sudo apt install`

Install a package.

```
bash
```

[Copy code](#)

```
sudo apt install git
```

26. `sudo apt remove`

Remove a package.

```
bash
```

[Copy code](#)

```
sudo apt remove package_name
```



User & Permission Management

27. `whoami`

Shows current user.

```
bash
```

[Copy code](#)

```
whoami
```

28. chmod

Change file permissions.

```
bash
```

[Copy code](#)

```
chmod 755 script.sh
```

29. chown

Change file ownership.

```
bash
```

[Copy code](#)

```
sudo chown user:user file.txt
```

Networking

30. ping

Check network connectivity.

```
bash
```

[Copy code](#)

```
ping google.com
```

31. ifconfig (older)

Network configuration.

```
bash
```

[Copy code](#)

```
ifconfig
```

32. ip

Modern network command.

```
bash
```

[Copy code](#)

```
ip a
```

33. wget

Download files from internet.

```
bash
```

[Copy code](#)

```
wget https://example.com/file.zip
```



Process Management

34. ps

View running processes.

```
bash
```

[Copy code](#)

```
ps aux
```

35. kill

Terminate process.

```
bash
```

[Copy code](#)

```
kill PID
```

```
kill -9 PID
```



Superuser

36. sudo

Run command as administrator.

```
bash
```

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```
sudo command_name
```

If you'd like, I can also provide:

- 📖 Beginner-only commands
- 🚀 Advanced commands
- 👨💻 Commands for developers
- 📄 A printable cheat sheet format
- 🎯 Interview-focused Linux commands

Just tell me what you need 😊

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