**CHATGPT LINK:**

<https://chatgpt.com/c/68a33e99-8b4c-8320-9673-77ed3de96ca3>

**🔹 Basic Commands**

| **Command** | **Description** | **Real-time Example** |
| --- | --- | --- |
| ls | List files and directories | ls /home → Lists contents of /home |
| man ls | Show manual for ls | man ls → Opens help page for ls |
| whoami | Show current username | whoami → Might return ubuntu |
| hostname | Show system hostname | hostname → Returns server01 |
| id | Show user and group IDs | id → uid=1000(user) gid=1000(user) |
| uptime | Show system uptime | uptime → 10:24 up 2 days, 3:15, 2 users |
| pwd | Print working directory | pwd → /home/ubuntu/projects |
| cd demo | Change to demo directory | cd /var/log |
| clear | Clear terminal screen | clear → Screen wiped clean |
| date | Show current date/time | date → Mon Aug 18 10:24:30 UTC 2025 |
| cal | Show calendar | cal 2025 → Displays full 2025 calendar |
| echo "Hi" | Print text | echo "Hello DevOps!" → Prints message |

**🔹 File Operations**

| **Command** | **Description** | **Real-time Example** |
| --- | --- | --- |
| touch <file> | Create empty file | touch report.txt |
| cat <file> | Display file contents | cat /etc/hostname |
| rm <file> | Remove file | rm temp.txt |
| rm -rf <dir> | Remove directory recursively | rm -rf /tmp/test |
| vi <file> | Edit file in vi | vi config.txt |
| nano <file> | Edit file in nano | nano notes.txt |
| mkdir <dir> | Create directory | mkdir backup |
| rmdir <dir> | Remove empty directory | rmdir logs |
| cp <src> <dest> | Copy file | cp report.txt backup/ |
| mv <src> <dest> | Move/Rename file | mv data.txt archive/ |
| rm \*.pdf | Remove multiple files | rm \*.log deletes all .log files |
| ls log\_[ab] | Pattern matching | ls log\_[12] lists log\_1 & log\_2 |

**🔹 File Viewing**

| **Command** | **Description** | **Real-time Example** |
| --- | --- | --- |
| more <file> | View file page by page | more /etc/passwd |
| less <file> | Scrollable view | less /var/log/syslog |
| head <file> | First 10 lines | head -n 5 sample.txt |
| tail <file> | Last 10 lines | tail -f /var/log/auth.log (real-time logs) |

**🔹 Redirection & Pipes**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| echo "Hi" > file.txt | Overwrite file | echo "Server Started" > status.txt |
| echo "Hi" >> file.txt | Append text | echo "OK" >> log.txt |
| `command | grep "pattern"` | Pipe + search |
| cat < file.txt | Redirect file | cat < hosts.txt |

**🔹 User Management**

| **Command** | **Description** | **Real-time Example** |
| --- | --- | --- |
| sudo su | Switch to root | sudo su |
| su <user> | Switch user | su postgres |
| useradd <user> | Add user | sudo useradd dev1 |
| usermod -c "desc" <user> | Modify user | sudo usermod -c "Admin User" dev1 |
| usermod -e <date> <user> | Set expiry | sudo usermod -e 2025-12-31 dev1 |
| passwd <user> | Change password | sudo passwd dev1 |
| userdel <user> | Delete user | sudo userdel dev1 |
| userdel -r <user> | Delete with home | sudo userdel -r dev1 |

**🔹 System Info**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| df | Disk usage | df -h |
| uname | System info | uname -a |
| ps | Running processes | ps |
| ps -ef | Full process list | `ps -ef |
| top | Live processes | top |
| ifconfig | Network config | ifconfig eth0 |
| ip | Network info | ip addr show |
| free | Memory usage | free -m |
| hash | Show cached commands | hash |
| cksum file | File checksum | cksum config.yml |

**🔹 Text Processing**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| grep -i "text" file | Search text (ignore case) | grep -i "error" app.log |
| sort file | Sort lines | sort names.txt |
| sort -r file | Reverse sort | sort -r marks.txt |
| sort file >> new.txt | Save sorted output | sort users.txt >> sorted.txt |

**🔹 Networking & Downloads**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| wget <URL> | Download file | wget https://example.com/file.txt |
| curl <URL> | Fetch file | curl https://example.com/file.txt |

**🔹 Miscellaneous**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| history | Show command history | `history |
| kill <PID> | Kill process | kill 1234 |

**Class Linux Commands:**

1213 ls

1214 man ls

1215 whoami

1216 hostname

1217 id

1218 uptime

1219 pwd

1220 ls

1221 cd demo

1222 pwd

1223 ls

1224 cd ..

1225 clear

1226 date

1227 cal

1228 cal 2025

1229 cal 2050

1230 cal July 2025

1231 cal July 2050

1232 echo "Hi"

1233 echo "Hello World!"

1234 touch afternoon.txt

1235 ls

1236 cat aws.txt

1237 cat awss.txt

1238 rm afternoon.txt

1239 ls

1240 vi demoaws.txt

1241 ls

1242 vi random.txt

1243 ls

1244 vi demoaws.txt

1245 ls

1246 cat demoaws.txt

1247 nano random.txt

1248 ls

1249 nano nano.txt

1250 ls

1251 cat nano.txt

1252 cat random.txt

1253 clear

1254 mkdir afternoon

1255 ls

1256 rmdir afternoon

1257 ls

1258 mkdir afternoon

1259 ls

1260 cp nano.txt

1261 cp nano.txt afternoon

1262 ls afternoon

1263 mv sort.txt afternoon/

1264 ls afternoon

1265 ls

1266 rmdir afternoon/

1267 rm -rf afternoon/

1268 ls

1269 history

Wc

echo “Hello World ” > aws.txt – overwrite existing content of file

echo “Hello World ” >> aws.txt – append the output into the file without overwriting existing content

more

less

head

tail

sudo su – switch to root

su – switch user

df

uname

rm demo.txt **&&** rm aws.txt **&&** rm demoaws.txt

1418 ls

1419 touch demo.pdf && touch aws.pdf && touch afternoon.pdf

1420 ls

1421 rm \*.pdf

1422 ls

1423 mkdir hook

1424 cd hook

1426 ls

1427 rm batch2?

1428 ls

1430 ls

1431 rm batch?5

1432 ls

1433 touch log\_a && touch log\_b && touch log\_c && touch log\_d && touch log\_e

1434 ls

1435 ls log\_[ab]

1436 ls log\_[a-d]

1437 ls lo[g]\_[a-e]

1438 rm lo[g]\_[a-c]

1439 ls

1440 echo "current path is ["$(pwd)"]"

1441 echo "current path is ["$(pwd)"]" > path.txt

1442 cat path.txt

1443 cd ~/documents/

1444 cd ..

1445 cd ~/hook/

1446 echo "Hello"; echo "World"

1447 ps

1448 man ps

1449 ps -ef

1450 ps -ef | grep sshd

1451 echo "hi" > demo.txt

1452 top

1453 ifconfig

1454 ip

1455 cd ..

1456 ls

1457 cat bca.txt

1458 cat sample.txt

1459 cat sort.txt~

1460 grep -i "a" sort.txt~

1461 grep -i "b" sort.txt~

1462 ls

1463 vi rj.txt

1464 grep -i "Linux" rj.txt

1465 grep -i "OS" rj.txt

1466 grep "Linux" rj.txt

1467 man -i

1468 man grep

1469 ls

1470 rm sort.txt

1471 rm sort.txt~

1472 rm sorted.txt

1473 ls

1474 vi sort.txt

1475 cat sort.txt

1476 sort sort.txt

1477 sort -r sort.txt

1478 cat sort.txt

1479 vi sort.txt

1480 cat sort.txt

1481 sort sort.txt

1482 sort sort.txt >> sorted.txt

1483 cat sorted.txt

1484 sort -r sort.txt >> sorted.txt

1485 cat sorted.txt

1486 sort -r sort.txt >> sort.txt

1487 cat sort.txt

1488 less < sort.txt

1489 less sort.txt

1490 cat < sort.xt

1491 cat < sort.txt

1492 ls

1493 hash

1494 ls

1495 cksum morning.txt

1496 cksum sort.txt

1497 cp sort.txt hook

1498 ls hook

1499 cd hook

1500 cksum sort.txt

1501 echo "Butterfly" >> sort.txt

1502 cksum sort.txt

1503 vi sort.txt

1504 cksum sort.txt

1505 vi sort.txt

1506 cksum sort.txt

1507 top

1508 kill 102

1509 free

1510 ls

1511 wget https://sample-files.com/downloads/documents/txt/multilang.txt

1512 ls

1513 cat multilang.txt

1514 curl https://sample-files.com/downloads/documents/txt/simple.txt

1515 ls

1516 wget https://sample-files.com/downloads/documents/txt/simple.txt

1517 ls

1518 cat multilang.txt

1519 curl https://sample-files.com/downloads/documents/txt/simple.txt

1520 ls

1521 wget https://sample-files.com/downloads/documents/txt/simple.txt

1522 ls

1523 history

1524 cd /etc

1525 ls

1526 less passwd

1527 useradd rishabh

1528 sudo useradd rishabh

1529 less passwd

1530 cat passwd

1531 useradd -d /demo/xyz shahrukh

1532 sudo useradd -d /demo/xyz shahrukh

1533 cat passwd

1534 sudo usermod -c "Superstar" shahrukh

1535 cat passwd

1536 less passwd

1537 useradd Rajanikanth

1538 sudo useradd Rajanikanth

1539 less passwd

1540 usermod -c "Superstar" Rajanikanth

1541 sudo usermod -c "Superstar" Rajanikanth

1542 less passwd

1543 sudo usermod -e "2025-08-08" Rajanikanth

1544 less passwd

1545 sudo useradd -d /demo/abc Prabhas

1546 less passwd

1547 sudo userdel Prabhas

1548 less passwd

1549 cd /demo

1550 cd /

1551 ls

1552 cd home

1553 ls

1554 cd /etc

1555 sudo userdel -r Prabhas

1556 less passwd

1557 sudo userdel -r dhoni

1558 ls /home

1559 sudo userdel -r Raj

1560 sudo userdel -r raj

1561 ls /home

1562 sudo userdel vicky

1563 ls /home

1564 sudo userdel -r vicky

1565 ls /home

1566 less passwd

1567 passwd Rajanikanth

1568 sudo passwd Rajanikanth

1569 sudo su Rajanikanth

1570 cd ~

1571 su Rajanikanth