Command List

Basic File Operations
cd
- **Move to a Specific Directory**
  cd /path/to/directory

- **Move to Home Directory**
  cd ~
  OR
  cd

- **Move Up One Level**
  cd ..

ls
- **Basic Listing**
  ls

- **Long Listing Format**
  ls -l

- **Include Hidden Files**
  ls -a

cat
- **Create a New File**
  cat > file.txt

- **Display File Content**
  cat file.txt

- **Merge Two Files**
  cat file1.txt file2.txt > merged.txt

touch
- **Create a File**
  touch newFile.txt

mkdir
- **Create a Directory**
  mkdir new_directory

rm
- **Remove Files or Directories**
  rm file.txt
  rm -rf directory

mv
- **Move a File**
  mv file.txt /new/location/

- **Rename a File or Directory**
  mv oldname.txt newname.txt

Change File Permission
- **Numeric/Absolute Mode**
  chmod 764 file.txt

- **Symbolic Mode**
  chmod u+x file.txt

Network Config Checking
- **Check IP Address**
  ip addr
  OR
  ifconfig

- **Check Open Ports**
  netstat -tuln
  OR
  ss -tuln

- **Check Routing Table**
  route -n

Text Processing Tools
grep
- **To find lines containing the pattern**
  grep "pattern" file.txt

sed
- **To replace old with new**
  sed 's/old/new/g' file.txt

- **To delete lines with pattern**
  sed '/pattern/d' file.txt

- **To modify the file directly**
  sed -i 's/old/new/g' file.txt

sort

- **To sort lines alphabetically**
  sort file.txt

- **To sort in reverse order**
  sort -r file.txt

tr
- **Character replacement**
  tr 'a-z' 'A-Z'

- **To delete all occurrences of the letter 'a'**
  tr -d 'a'

Check Running Processes
- **To list out all the currently running processes**
  ps aux

- **To provide a real-time view of running processes**
  top
  OR
  htop

Killing a Process
- **Graceful Termination**
  kill PID
  OR
  kill -SIGTERM PID

- **Forceful Termination**
  kill -9 PID
  OR
  kill -SIGKILL PID

- **To find the PID by its name**
  pgrep process_name

- **To forcefully kill all processes with a specific name**
  pkill -9 process_name