

## Linux & Terminal Command Cheat Sheet

### 1. File & Directory Navigation

```
pwd  
ls  
ls -l  
ls -a  
cd folder  
cd ..  
cd ../../  
cd /path/to/dir  
cd ~  
cd -
```

### 2. File & Directory Management

```
touch file.txt  
mkdir folder  
mkdir -p a/b/c  
rm file  
rm -r folder  
rm -rf folder  
cp f1 f2  
cp -r dir1 dir2  
mv old new  
cat file.txt  
head file.txt  
tail file.txt  
tail -f file.txt
```

### 3. Editing Files

```
nano file.txt  
vim file.txt  
code .
```

### 4. Permissions & Ownership

```
chmod 755 file  
chmod +x script.sh  
chown user:group file  
sudo command
```

### 5. Search & Find

```
find . -name "*.txt"  
grep "text" file  
grep -r "text" folder  
grep -i "text" file
```

### 6. Processes & System Monitoring

```
top  
htop  
ps aux  
kill PID  
kill -9 PID  
df -h  
du -sh folder  
free -h
```

### 7. Networking

```
ping google.com  
curl url  
wget url  
ifconfig / ip a  
ssh user@host  
scp file user@host:dest
```

### 8. Package Management (Ubuntu/WSL)

```
sudo apt update
sudo apt upgrade
sudo apt install pkg
sudo apt remove pkg
9. Git Commands
git init
git clone URL
git status
git add .
git commit -m "msg"
git push origin main
git pull
git branch
git checkout -b new
10. Python Environment Commands
python3 file.py
pip install package
pip list
virtualenv venv
source venv/bin/activate
deactivate
11. Compression & Archiving
tar -cvf file.tar folder
tar -xvf file.tar
zip -r file.zip folder
unzip file.zip
12. Shell Scripting Basics
#!/bin/bash
echo "text"
bash script.sh
chmod +x script.sh
13. Docker CLI Essentials
docker pull image
docker build -t name .
docker run name
docker ps
docker stop ID
14. System Information
uname -a
hostname
whoami
15. WSL Commands
wsl -l -v
wsl --shutdown
explorer.exe .
```