

# Linux Commands Cheat Sheet

Essential commands for developers and system administrators

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## Basic Commands

```
pwd
```

Print working directory (shows current location)

```
ls
```

List directory contents

```
cd /path/to/dir
```

Change directory

```
mkdir dirname
```

Create a new directory

```
touch filename
```

Create an empty file

## File Operations

```
ls -l
```

List files with detailed information

```
cp file.txt /backup/
```

Copy file to backup directory

```
mv old.txt new.txt
```

Rename or move file

```
rm -r directory/
```

Remove directory recursively

```
find /home -name "*.txt"
```

Find text files in home directory

```
cat filename
```

Display file contents

```
clear
```

Clear the terminal screen

## System Information

```
top
```

Display running processes

```
df -h
```

Show disk space in human-readable format

```
free -h
```

Display memory usage

```
uname -a
```

Show all system information

```
ps aux | grep process
```

Find running process

## Networking

```
ping example.com
```

Test network connectivity

```
ifconfig
```

Display network interfaces

```
netstat -tuln
```

Show listening ports

```
ssh user@host
```

Connect to remote server

```
scp file.txt  
user@host:/path
```

Securely copy file to remote host

## File Permissions

---

```
chmod 755 script.sh
```

Make file executable

```
chown user:group  
file.txt
```

Change file owner and group

```
chmod +x script.sh
```

Add execute permission

```
umask 022
```

Set default file permissions

## Text Processing

---

```
grep "pattern" file.txt
```

Search for pattern in file

```
sed 's/old/new/g'  
file.txt
```

Replace text in file

```
awk '{print $1}'  
file.txt
```

Print first column of file

```
sort file.txt
```

Sort lines in file

```
head -n 10 file.txt
```

Show first 10 lines of file

## Compression

---

```
tar -czvf  
archive.tar.gz /
```

Create compressed tarball

```
tar -xzvf archive.tar.gz
```

Extract tarball

Extract tarball

```
zip archive.zip file.txt
```

Create ZIP archive

```
unzip archive.zip
```

Extract ZIP archive