Linux Basic Commands Cheat Sheet

File & Directory Commands

```
ls                      - List files and directories
ls -l                   - Long listing with permissions
ls -a                   - Show hidden files
cd <dir>                - Change directory
cd ..                   - Move up one directory
pwd                     - Show current directory
mkdir <dir>             - Create a new directory
rmdir <dir>             - Remove an empty directory
rm -r <dir>             - Remove a directory and its contents
touch <file>            - Create a new empty file
cp <src> <dest>         - Copy files/directories
mv <src> <dest>         - Move or rename files/directories
rm <file>               - Delete a file
```

File Viewing & Editing

```
cat <file>              - View file content
less <file>             - View large files page-wise
head <file>             - View first 10 lines
tail <file>             - View last 10 lines
nano <file>             - Open file in Nano editor
vi <file>               - Open file in Vim editor
```

Search

```
find <path> -name <filename> - Search for a file
grep '<text>' <file>        - Search text inside files
grep -r '<text>' <dir>      - Recursive search in directory
```

File Permissions

```
chmod <perm> <file>        - Change file permissions
chown <user>:<group> <file> - Change ownership
```

System Information

```
uname -a                - Show system info
top                     - Live system processes
htop                    - Interactive process viewer
```

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```
df -h                    - Disk space usage
du -sh <dir>             - Size of directory
free -h                  - Show memory usage
uptime                   - System uptime
whoami                   - Current logged-in user
hostname                 - Show system hostname
```

Process Management

```
ps aux                   - List all running processes
kill <pid>               - Kill a process by PID
killall <name>           - Kill process by name
&                        - Run command in background
jobs                     - List background jobs
fg                       - Bring job to foreground
bg                       - Resume job in background
```

Networking

```
ping <host>              - Ping a host
ifconfig                 - Show network interfaces
ip a                     - Show IP addresses
curl <url>               - Fetch content from URL
wget <url>               - Download files from URL
ssh <user>@<host>        - Connect to remote host via SSH
```

Package Management (Debian/Ubuntu)

```
sudo apt update          - Refresh package list
sudo apt upgrade         - Upgrade all packages
sudo apt install <package> - Install a package
sudo apt remove <package> - Remove a package
```

Others

```
history                  - Show command history
clear                    - Clear terminal screen
alias ll='ls -l'         - Create alias
man <command>            - Show manual for command
```