Basic Linux Commands Cheat Sheet

File & Directory Management

```
ls - List directory contents
ls -l - Long listing
ls -a - Show hidden files
cd <dir> - Change directory
pwd - Print current working directory
mkdir <dir> - Create directory
rm <file> - Remove file
rm -r <dir> - Remove directory
cp <src> <dest> - Copy file/directory
mv <src> <dest> - Move/Rename file/directory
```

File Viewing & Editing

```
cat <file> - Show file contents
nano <file> - Edit file using nano
vim <file> - Edit file using vim
echo 'text' > file.txt - Overwrite file with text
echo 'text' >> file.txt - Append text to file
```

Package Management (APT)

```
sudo apt update - Update package list
sudo apt upgrade - Upgrade packages
sudo apt install <pkg> - Install package
sudo apt remove <pkg> - Remove package
```

System Info & Management

```
uname -a - System info
df -h - Disk space usage
free -h - RAM usage
top - Show running processes
htop - Interactive process viewer
```

User & Permission

```
whoami - Current user
sudo <cmd> - Run command as root
chmod +x <file> - Make file executable
chown user:group <file> - Change ownership
```

Networking

```
ip a - Show IP address
ping <host> - Ping a host
```

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```
netstat -tuln - Show open ports
curl <url> - Fetch URL content
wget <url> - Download file from URL
```

Process & Job Control

```
ps aux - List processes
kill <pid> - Kill process by PID
jobs - List background jobs
fg - Resume job in foreground
```

Archive & Compression

```
tar -cvf file.tar dir/ - Create tar archive
tar -xvf file.tar - Extract tar file
zip file.zip file/ - Compress to zip
unzip file.zip - Extract zip file
```

Utilities & Others

```
history - Show command history
alias ll='ls -la' - Create alias
man <command> - Manual for command
which <command> - Locate binary path
```