Linux Command Cheat Sheet

Basic File and Directory Operations

- `ls`: List directory contents.
- `ls -l`: Long listing format.
- `ls -a`: Include hidden files.
- 'ls -la': Long listing with hidden files.
- `cd /path/to/directory`: Navigate to a specific directory.
- 'cd ~': Go to the home directory.
- `pwd`: Print working directory.
- 'mkdir dirname': Create a directory named 'dirname'.
- `rm filename`: Remove a file.
- `rm -r dirname`: Remove a directory recursively.
- `rm -rf /`: Force delete everything (use with caution).
- `cp source destination`: Copy a file.
- `cp -r source_directory destination`: Copy a directory.
- 'mv source destination': Move or rename a file/directory.
- `touch filename`: Create an empty file named `filename`.

File Viewing and Editing

- 'cat filename': Display contents of 'filename'.
- 'more filename': Display content with paging.
- 'less filename': View content with navigation.
- `nano filename`: Edit `filename` in nano.
- 'vim filename': Edit 'filename' in vim.
- 'head filename': Display the first 10 lines.
- 'head -n N filename': Display the first N lines.
- 'tail filename': Display the last 10 lines.
- `tail -n N filename`: Display the last N lines.

Search and Text Processing

- 'grep 'pattern' filename': Search for 'pattern' in a file.
- 'grep -i 'pattern' filename': Case-insensitive search.
- 'grep -r 'pattern' /path': Recursively search in a directory.
- 'find /path -name filename': Search by name.
- `find /path -type f -name '*.txt'`: Find all `.txt` files.
- `sed 's/old/new/g' filename`: Replace 'old' with 'new'.
- 'sed -n 'p' filename': Print specific lines.

• `awk '{print \$1}' filename`: Print the first column.

System Information

- `uname -a`: Show all system info.
- 'df -h': Human-readable disk space usage.
- 'du -sh': Show size of current directory.
- 'top': Display tasks and system performance.
- 'ps aux': Show all processes.
- 'uptime': Tell how long the system has been running.
- `whoami`: Show the current logged-in user.

Networking

- 'ifconfig': Display all network interfaces.
- 'ping hostname': Test network connection.
- `netstat -a`: Show all connections.
- 'netstat -s': Display statistics.
- 'netstat -p': Show process-related connections.
- `scp file user@remote:/path`: Copy file to a remote host.

Process Management

- 'kill PID': Kill process by PID.
- 'killall processname': Kill all processes with a specific name.
- 'htop': Interactive process viewer.
- `crontab -e`: Edit cron jobs.
- `crontab -l`: List cron jobs.

Compression and Archiving

- `tar -cvf archive.tar file1 file2`: Create a tar archive.
- 'tar -xvf archive.tar': Extract a tar archive.
- `tar -czvf archive.tar.gz directory`: Create a gzip compressed archive.
- `tar -xzvf archive.tar.gz`: Extract a gzip compressed archive.
- `gzip filename`: Compress the file.
- `gunzip filename.gz`: Decompress the file.

User Management

- 'adduser username': Create a new user.
- 'passwd username': Change a user's password.

• `usermod -aG group username`: Add user to a group.

Disk Usage and Partitioning

- `fdisk -l`: List all partitions.
- 'mount /dev/sda1 /mnt': Mount partition '/dev/sda1' to '/mnt'.
- `umount /mnt`: Unmount the file system at `/mnt`.

Package Management

- 'apt-get update': Update package lists.
- 'apt-get upgrade': Upgrade all packages.
- `apt-get install package`: Install a package.
- `apt-get remove package`: Remove a package.
- 'yum install package': Install a package.
- 'yum update': Update packages.
- 'yum remove package': Remove a package.

SSH and SCP

- `ssh user@hostname`: Connect to a remote host.
- 'scp file user@remote:/path': Copy files to a remote host.

Miscellaneous

- 'echo 'text': Print 'text' to the terminal.
- `chmod 755 filename`: Set executable permissions.
- 'chown user:group filename': Change owner and group.
- 'history | grep command': Search command history.