LINUX UNIX CHEAT SHEET

FILES AND DIRECTORIES

List files in current directory
```
$ ls
```
List files with all details and human readable sizes
```
$ ls -lh
```
Show current working directory
```
$ pwd
```
Change current directory
```
$ cd /absolute/path
$ cd relative_path
```
Change to home directory
```
$ cd ~
$ cd
```
Copy a file
```
$ cp source.c target.c
```
Recursively copy a directory
```
$ cp -r ~/src_dir ~/target_dir
```
Create new directory
```
$ mkdir newdir
```
Remove file
```
$ rm file.txt
```
Recursively remove a directory
```
$ rm -rf dir/
```
Move a file
```
$ mv source.c target.c
```
Unarchive a tarball
```
$ tar -xf archive.tar.gz
```
Archive a directory into tarball
```
$ tar -czvf archive.tar.gz dir/
```
Locate a file by name
```
$ locate file.txt
```
Change file permissions (see 'man chmod')
```
$ chmod <mode> file.txt
```

PROCESS MANAGEMENT

Show running processes
```
$ ps -ax
```
Show process resource consumption
```
$ top
```
Kill process by PID
```
$ kill -9 <pid>
```
Show executable path
```
$ which tor
$ whereis tor
```
Run an executable from local directory
```
$ ./run.sh
```
Run in background
```
$ ./run.sh &
```

SYSTEM AND USERS

Show system information
```
$ uname -a
```
Show hostname
```
$ hostname
```
Show disk usage
```
$ df -h
```
Show current username
```
$ whoami
```

HELP AND DOCUMENTATION

Show a manpage for program or API
```
$ man ls
$ man strncpy
```
Search for manpage titles
```
$ apropos crypto
```
Show infopage for a program
```
$ info bash
```
Show available shell commands
```
$ help
```
Show documentation for shell command
```
$ help pwd
```

NETWORKING

List network interfaces
```
$ ifconfig
$ ip link
$ ip addr
```
Ping a remote destination
```
$ ping www.myhackertech.com
```
Run DNS request
```
$ dig myhackertech.com
$ nslookup myhackertech.com
```
Get domain registration info
```
$ whois myhackertech.com
```
Connect to SSH server
```
$ ssh user@server.myhackertech.com
```
Retrieve and show HTTP response
```
$ curl http://ifconfig.me/all.json
```
Download a file
```
$ wget http://openssl.org/1.tar.gz
```

TEXT PROCESSING

Dump contents of textfile
```
$ cat file.txt
```
Show file with scrolling
```
$ less file.txt
```
Find a string in files
```
$ grep "sometext" *.txt
```
Show first 10 lines of textfile
```
$ head file.txt
$ head -n 10 file.txt
```
Show last 10 lines of textfile
```
$ tail file.txt
$ tail -n 10 file.txt
```