# Linux Cheat Sheet <CentOS/Fedora based> Cheat Sheet

by idan_shm via cheatography.com/39583/cs/12287/

## Built-in manuals and info

| | |
|---|---|
| man <Command> | Show manual for the command |
| info <Command> | Show wide info about the command (Can be secondary to man) |
| <Command> --help | Short command/tool usage |

## System info

| | |
|---|---|
| uname -a | Show system and kernel version |
| history | Show current user bash commands history |
| date | Show current date and time |
| cal | Show calendar |
| uptime | Show system uptime |
| df -h | Show all mounted file systems |
| du -h <Path> | Show disk usage, to get better understanding what is taking all the disk space |
| free -h | Show available memory and usage |
| which <Command> | Show the binary/script location if it is under the $PATH |
| top | Show running processes on realtime |
| ps -aux | Capture all running processes and print in terminal |
| dmesg | Print or control the kernel ring buffer |
| cat /var/log/syslog | Show system logs |
| journalctl | Query the systemd journal |

## Bash Variables

| | |
|---|---|
| env | Show environment variables |
| echo $HOME | Home directory |
| echo $PATH | Executable search path |
| echo $SHELL | Current shell |

## Navigation

| | |
|---|---|
| cd <Path> | Change directory |
| pwd | Present/print working directory |
| ls | List directory contents |
| ls -la | Long list directory contents and hidden files and wide info |
| find /home/user -name '*.txt' | Search and print all the .txt files under the user directory |
| mount | show or mount filesystems |
| umount | unmount file systems |

## File manipulation

| | |
|---|---|
| touch | Update the file last modification date, if the file does not exist, touch will create a new file |
| cp | Copy files |
| mv | Move files, also used to rename a file |
| rm | Delete files or directories ( can be used with -r for recursive) |
| mkdir | Create new directory |
| rmdir | Delete directory (Only if empty) |
| chmod | Change file mode/permissions r=4 w=2 x=1 |
| chown <owner:group> | Change file ownership |
| cat | Print file content |
| head | Show first 10 lines of a file |
| tail | Show last 10 lines of a file |
| tail -F | Output last lines of the file as it changes |
| file | Show info about the file such as file type |

## Users and groups management

| | |
|---|---|
| whoami | Show current user |
| sudo adduser <Username> | Create a new user |
| sudo userdel -rf <Username> | Delete user ( Including the home directory ) |
| sudo passwd <Username> | Change user password |
| id | Show user uid, groups and info |
| who | Show current logged in users |



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## Users and groups management (cont)

| | |
|---|---|
| sudo usermod -aG <Group> <User> | Add user to group |
| sudo groupdel <Group> | Delete group |
| cat /etc/group | List all groups |
| cat /etc/passwd | List all users |

## Disk utils

## IO Redirection

| | |
|---|---|
| cmd < file | Input to cmd from file |
| cmd1 <(cmd2) | Output of cmd2 as file input to cmd1 |
| cmd > file | stdout of cmd to file |
| cmd > /dev/null | Discard stdout of cmd |
| cmd >> file | Append stdout to file |
| cmd 2> file | stderr of cmd to file |
| cmd 1>&2 | stdout to same place as stderr |
| cmd 2>&1 | stderr to same place as stdout |
| cmd &> file | Every output of cmd to file |

cmd = Command
stdout = Standard output
stderr = Error output

## Package management

| | |
|---|---|
| dnf upgrade | Upgrade a package or packages on your system |
| dnf search <Package> | Search package details for the given string |
| dnf remove <Package> | Remove a package or packages from your system |
| dnf repolist | Display the configured software repositories |
| rpm -i <Package> | Install rpm package |
| rpm -e <Package> | Uninstall rpm package |

## Networking

| | |
|---|---|
| ifconfig -a | Show all network interfaces and more |
| netstat | Print network connections, routing tables, interface statistics, masquerade connections, and multi-cast memberships |

## VIM Editor

Delete character

## VIM Editor

| | |
|---|---|
| :x + enter | Save and quit |
| :q! + enter | exit, discard changes |
| x | Delete character |
| i | Insert text |
| a | append text |
| dw | Delete word |
| d$ | Delete to the end of the line |
| 0 (Zero) | Move to the start of the line |
| 2w | Jump 2 words |
| d2w | Delete 2 words |
| dd | Delete a whole line |
| 2dd | Delete 2 whole lines |
| u | Undo previous actions |
| U | Undo all the changes on a line |
| CTRL-R | Undo the undo's |
| r | Replace character |



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