

Linux Basics Cheat Sheet

by m_ashraf via cheatography.com/84329/cs/19923/

| Linux files ystem | | |
|--|---|--|
| / | root directory of the entire file system hirarchy | |
| /bin/ | Essential user command binaries | |
| /boot/ | static files of the boot loader | |
| /dev/ | device files | |
| /etc/ | host-specific system configuration | |
| /home/ | user home directories | |
| /lib/ | essential shared libraries and kernel modules | |
| /media/ | mount point for removable media such as USB | |
| /mnt/ | mount point for a temporarily mounted filesystems | |
| /opt/ | optional commercial software | |
| /sbin/ | system binaries | |
| /usr/ | user utilities and applications | |
| /usr/s- hare/ | shared files over the system | |
| /root/ | home directory for the root user | |
| these are not all the filesystem directories ,but they're the most important to know | | |

| user accounts | s operations |
|--|------------------------------|
| sudo <co-< td=""><td>do a command as a super</td></co-<> | do a command as a super |
| mmand> | user (root) |
| passwd | change the user password |
| whoami | show the current user |
| who | show user detaled data |
| su <usern-< td=""><td>switch user</td></usern-<> | switch user |
| ame> | |
| sudo | make new user |
| adduser | |
| <username></username> | |
| sudo | add existing user to a group |
| adduser | |
| <username></username> | |
| <groupnam-< td=""><td></td></groupnam-<> | |
| e>> | |
| sudo | add the user to the sudoers |
| adduser | file (giving him the root |
| <username></username> | privilage) |
| sudo | |
| sudo deluser | delete user account |
| <username></username> | (doesn't remove his files in |
| | the home directory remove |
| | it yourself) |

| displays detaled system information |
|---|
| display memory size (total,used and free sizes) |
| display memory size in human readable format |
| list block devices |
| searches for bad sectors in device |
| |

| badblocks /dev/sda1 -v > file | searches for bad sectors in sda1 and put the output in file | | | | |
|---|---|--|--|--|--|
| the > here is a | the > here is a part of the command | | | | |
| Navigating d | Navigating directories | | | | |
| cd <director-< td=""><td>change directory:go to the given directory</td></director-<> | change directory:go to the given directory | | | | |
| c <mark>d ~</mark> | hange directory to home | | | | |
| cd | go up one directory | | | | |
| cd - | go to the previous working directory | | | | |
| Is | list directory contents | | | | |
| ls -l | use long listing format | | | | |
| ls -lh | use human readable long listing format | | | | |
| find <file directory="" or=""></file> | searchs for file or directory in the working directory | | | | |
| locate <file< td=""><td>searchs for file or directory</td></file<> | searchs for file or directory | | | | |
| or directory> | in the whole system | | | | |
| pwd | print working directory | | | | |
| the '<' and '>' are not used in the command they're just for making things here obvious | | | | | |

other (cont)



By **m_ashraf** cheatography.com/m-ashraf/

Published 24th June, 2019. Last updated 24th June, 2019. Page 1 of 2. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com



Linux Basics Cheat Sheet

by m_ashraf via cheatography.com/84329/cs/19923/

| terminal tips | |
|--|--|
| using up and down arrows | navigating throw your command history |
| ctrl+R | searching for previously typed command in your history |
| clear | clears terminal |
| history | view command history |
| <comma- nd> less</comma- | for long output commands: view only one page and give you the ability to navigate through output lines using arrow keys exit using Q |
| <comma- nd> more</comma- | for long output commands: view only one page and give you the ability to navigate through output pages using Enter exit using Q |
| <comma- nd> && <comma- nd></comma- </comma- | perform two commands one after the other |
| man <comman or progra- m></comman | show manual of that program or tool |

| operations on file | es and directories |
|---|---|
| cp <file> <target dir=""></target></file> | cop <mark>y file</mark> to a target directory |
| mv <file> <target dir=""></target></file> | move file to a target directory,and can be used to rename files |
| rm <file></file> | remove file |
| rm -r <dir></dir> | remove directory recursively |
| rm -i | prompt for every removal |
| rm -v | explain what's being done |
| nano <file></file> | a terminal based text editor |
| chmod <mode></mode> | changes mode (permissions) of the file |
| chmod -R <mo- de> <dir></dir></mo- | change mode of directory and its contents recursively |
| chown <owner></owner> | change owner of the file |
| chown <owner> : <group> file</group></owner> | change owner and group of file |
| mkdir <dir name></dir | makes new directory |
| zip <archive name> <files to<br="">be archived>></files></archive | make a .zip archive including the selected files |
| unzip <archive></archive> | extract the archive in the working directory |

| apt package | manager |
|---|---|
| apt search <package name></package | search for package in the database |
| apt show <package name></package | show detaled information about the package |
| sudo apt install <pa- ckage name></pa- | install package, if it's already installed it will search for updates for it,if it's already the last version it tell you that |
| sudo apt remove <package name></package | remove installed package |
| apt list installed | list installed packages |
| sudo apt autoremove | remove the packages that has no use |
| sudo apt update | update packages database |
| sudo apt upgrade | upgrade installed software |
| apt is just a fr | ont-end for apt-get so it won't you use any of them but for erface inhancing |



By **m_ashraf** cheatography.com/m-ashraf/

Published 24th June, 2019. Last updated 24th June, 2019. Page 2 of 2. Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
http://crosswordcheats.com