Sys Admin Cheat Sheet Cheat Sheet

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Important Commands

man = manuel

ls = list

.. = back

. = current

pwd = present working directory

ps = processes

cd = change directory

file = file type

clear = clear screen

more/l ess/cat = printing text tool

grep = searching too (what to find, where to search)

| = piping

find = find certain file (find / where, "file name", -print)

su = switch users

sudo = substitute user

echo = write single line of text to file

ln -S = create symbolic link <ta rge t><new name>

systemctl = system control

visudo - edits the sudo-ers file

fork = copies parent process

init/s ystemd = 1st process, becomes parent of child processes whos parent process stoppe d/died before them.

nice = sets priority for CPU time/usage

Important Commands (cont)

> renice = re-sets nice

Root Commands

Mac:

chown <us eri d>: /Users /<u - ser id>/ = change ownership to allow user to access

chmod <us eri d>: /Users /<u - ser id>/ = allow user to read and write files

Linux:

chown <us eri d>: /home/ <us - eri d>/ = change ownership to allow user to access

chmod <us eri d>: /home/ <us - eri d>/ = allow user to read and write files

Important Diectories

/etc - configuration

vi/vim

vi = vim/visual

Command Mode

vi x = delete character

vi u = undo

vi w = jump forward one word

vi b = jump back one word

vi / = search

vi n = next

vi d = delete (w for word, d for line)

vi

Insert Mode

vi i = insert

vi a = append

vi o = open new line

w = write to disk

:q = quit

Signals every administrator should know

# [b]	Name	Description	Default	Can catch?	Can block?	Dump core?
1	HUP	Hangup	Terminate	Yes	Yes	No
2	INT	Interrupt	Terminate	Yes	Yes	No
3	QUIT	Quit	Terminate	Yes	Yes	Yes
9	KILL	Kill	Terminate	No	No	No
10	BUS	Bus error	Terminate	Yes	Yes	Yes
11	SEGV	Segmentation fault	Terminate	Yes	Yes	Yes
15	TERM	Software termination	Terminate	Yes	Yes	No
17	STOP	Stop	Stop	No	No	No
18	TSTP	Keyboard stop	Stop	Yes	Yes	No
19	CONT	Continue after stop	Ignore	Yes	No	No
28	WINCH	Window changed	Ignore	Yes	Yes	No
30	USR1	User-defined #1	Terminate	Yes	Yes	No
31	USR2	User-defined #2	Terminate	Yes	Yes	No

a. A list of signal names and numbers is also available from the **bash** built-in command **kill -l**.
b. May vary on some systems. See **/usr/include/signal.h** or **man signal** for more information.

Handy Notes

> = redirect (file > destination)

>> = add (file >> destination)

/dev/null = black hole for unneeded data

2 = standard error (error messages)

1 = actual results/real output

whoami = returns username

uptime = returns uptime

Sizes

1 kB	1000B
1KiB	1024
1GiB	1,073,741,824

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