Important Commands

```
man = manuel
ls = list
.. = back
. = current
pwd = present working directory
ps = processes
cd = change directory
file = file type
clear = clear screen
more/less/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
<target><new name>
systemctl = system control
visudo - edits the sudo-ers file
fork = copies parent process
init/systemd = 1st process,
becomes parent of child
processes whos parent process
stopped/died before them.
nice = sets priority for CPU
time/usage
```

Important Commands (cont)

```
renice = re-sets nice
```

Root Commands

```
Mac:
chown <userid>: /Users/<userid>/
= change ownership to allow user
to access
chmod <userid>: /Users/<userid>/
= allow user to read and write
files
Linux:
chown <userid>: /home/<userid>/
= change ownership to allow user
to access
chmod <userid>: /home/<userid>/
= allow user to read and write
files
```

Important Dictories

```
/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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