

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 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 |

