# Cheatography

# CentOS Cheat Sheet Cheat Sheet by bromono via cheatography.com/20940/cs/3795/

| Help Commands  |   | Partitions and Disk Management              |   | File Operations (cont) |   | Is Options |  |
|--|---|---|---|------------------------|---|------------|--|
| whatis   |   | df  |   | less                   | View a file on page at a  | -a         | Show all (including hidden)                  |
|  | whatis database for   | Report file system disk space               |   |                        | time, allows for going backwards  | -R         | Recursive list                               |
|  | e words; used to find scriptions of system  | usage                                       | )   | head                   | Print the first 10 lines of a   | -r         | Reverse order                                |
| commands   |   | mount                                       |   |                        | file  | -t         | Sort by last modified                        |
| which Shows the full path to shell commands  |   | Show whats mounted or mount a file system   |   |                        | Print the last 10 lines of a file   | -S         | Sort by file size                            |
|  |   |   |   |                        |   | -I         | Long listing format                          |
|  |   | Unmount a file evetem                       |   | wc                     | Count the number of words or characters in a file                             | -1         | One file per line                            |
| whereis  | whereis   |   | Unmount a file system                         |                        |   | -m         | Comma-separated output                       |
|  | Locate binary, source and man   |   | fuser   |                        | Display file of file system   | -Q         | Quoted output                                |
| pages fo   | or a command  | Identifies processes using files or sockets |   |                        | status  |            | 2.11   |
| apropos  | apropos   |   | isof  |                        | Remove sections from lines of input   |            | Options                                      |
|  | through a database of   | list open files on the system               |   | paste                  | Merge lines of files  | -i (       | Case insensitive search                      |
| short description to find help and man pages containing certain terms and commands |   | ist open mes on the system                  |   | puote                  | Weige intes of files  | -r F       | Recursive search                             |
|  |   | Directory Operations                        |   | Search                 | ing Files   |            | nverted search                               |
| man  Manual pages for commands   |   | clear                                       | clears your screen                            | grep                   | Search text files for lines containing a matching pattern                     | -o S       | Show matched part of file only               |
|  |   | pwd   | Shows current directory                       |                        |   | Proce      | ess Management                               |
| Bash Variables   |   | cd  | Change directories                            | locate                 | Find files by matching the  | ps         | Report on current                            |
|  |   | Is  | List directory contents                       |                        | whole path name   |            | processes                                    |
| env  | List current environment variables  | mkdir                                       | Create a new directory                        | find                   | search for files in a   | pstree     | , ,  |
| echo   | Output value of \$NAME  | rmdir                                       | Delete an empty directory                     |                        | directory hierarchy   | top        | processes                                    |
| \$NAME   |   |   |   |                        | Commands to know  |            | Show real time processes                     |
| export   | set <i>\$NAME</i> to value in enviroment  | File Operations                             |   | uname                  | Prints information about  | kill       | Terminate a process by PID                   |
| NAME=  |   | cat   | Print a file on the screen, concatenate files | who                    | a machine and operating system it is run on  Print who is currently logged in | killall    | Kill a process by name                       |
| set set  | Change value of shell<br>atrributes and positional<br>parameters or display<br>list of shell variables<br>and functions | touch                                       | Create an empty file, change file timestamps  |                        |   | pkill      | Look up or signal                            |
|  |   |   |   |                        |   |            | processes based on same                      |
|  |   | ср  | Copy directories or files                     |                        | Prints system uptime and load   |            | and other attributes                         |
|  |   | mv  | Moves directories or files                    |                        |   | pgrep      | Grep for process information                 |
| \$PATH   | Exectuable search path  | rm  | Removes directories or                        | sudo                   | Execute a command as  | ctrl+z     | Stop the job but don't end                   |
| \$HOME   | Home directory  |   | files (This is how you remove recursively)    |                        | another user, usually with higher permissions                                 |            | process                                      |
| \$SHELL  | Current shell   | In  | Creates a symbolic or hard link for a file    | shutd<br>own           | Bring the system down in a safe way   | &          | Place this after a                           |
|  |   |   |   |                        |   |            | command to put the process in the background |



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Published 1st April, 2015. Last updated 1st April, 2015. Page 1 of 2.

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jobs

Display all jobs

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# File Permissions

chmod 775 file

Change file permissions to 775

chmod -R 600 folder

Recursively chmod folder to 600

chown user.group file

Change *file* owner to *user* and group to *group* 

#### File Permission Numbers

First number is the **owner** permission, second is **group** and third is **everyone** 

Calculate permission digits by adding number below:

| suid=4 | 421   | 421   | 421   |
|--------|-------|-------|-------|
| sgid=2 | rwx   | rwx   | rwx   |
| flag=1 | owner | group | world |

example: cmod 777/etc/file.txt

## **Networking Directories**

#### /etc/sysconfig/network-scripts

This folder contains the configuration files for each interface on the system; usually named ifcfg-eth0 or ifcfg-eth1.

#### /etc/resolv.conf

This file contains the permanent Domain Name Server (DNS) settings

## Networking

| ifcon | Configure network interface |  |  |  |  |
|-------|-----------------------------|--|--|--|--|
| fig   |                             |  |  |  |  |
| route | Show/Manipulate the IP      |  |  |  |  |
|       | routing table               |  |  |  |  |

ip Show/Manipulate routing, devices, policy and tunnels; replaces ifconfig, arp, and route

ifup Bring network interface up

#### Networking (cont)

ifdown Bring network interface down
ping Send ICMP

ECHO\_REQUEST to network hosts

# Accounts and Security Administration

#### groupadd

Create a new group

#### groupdel

Delete a group

#### groupmod

Modify definition of a specified group

### useradd

Create a new user

#### userdel

Delete a user

#### usermod

Modify a user account

### passwd

Update a user's password

# vipw

Edit password, group, shadow-password (Updates etc/shadow)

#### vigr

Edit password, group, shadow-group (Updates etc/gshadow)

## chage

Change password policy

