



LINUX BASH

CHEET SHEET BY @CHARLSTOWN

CREATOR: BRIAN FOX

YEAR: 1989

STABLE RELEASE (2020): 5.1

POPULAR SHELLS: Thompson, Bourne, Bash, Hamilton, csh, CMD, 4DOS, PowerShell, rc, etc.

BASH COMMANDS <cmd>

date > Show system date
 uptime > Show up time
 whoami > Show your user
 lsb_release -a > Display Ubuntu vrs.
 man <cmd> > Show cmd manual
 clear > Clear the command line
 compgen -c > Show all commands
 history > Show recent commands
 alias <n> = <cmd> > Create custom alias cmd

BASH SHORTCUTS & VARIABLES

CTRL + c > Stop command
 CTRL + l > Scroll to active line
 CTRL + z > Sleep program
 CTRL + a > Go to start of line
 CTRL + e > Go to end of line
 CTRL + r > Search history
 !<cmd> > Run last match command
 !* > All args from last cmd.
 env > Show environment variables
 echo \$VAR > Ouput variable
 \$SHELL > Current shell
 \$HOME > Home directory

PROCESSES

ps ax > Out running processes
 top > Display live processes
 kill <pid> > Quit process with PID

SEARCH

grep <opt> <file> > Search pattern inside file
 -i > Insensitive-case search
 -r > Recursive for each file
 -o > Show match part only
 find <opt> <dir> > Description
 -name <file> > Filename, add * for parts
 locate <opt> <file> > Description
 -i > Ignore letter-cases
 -q > Exclude errors

DIRECTORIES & FILES

pwd > Print working directory
 mkdir > Create directory
 cd <dir> > Change directory
 cd .. > Go up directory
 ls <opt> > List files
 -a > Show all
 -r > Reverse order
 -t > Sort by last modify
 -S > Sort by file size
 -l > One file per line
 -l > Comma output
 rm <opt> <file/dir> > Remove file or directory
 mv <opt> <f> <dir> > Move file to directory
 cp <opt> <f> <dir> > Copy file to directory
 ** Same <opt> for the last three commands
 -r > Cmd over directory
 -f > Force cmd
 -i > Prompt before cmd
 -v > Verbose cmd
 touch <file> > Update file or create
 cat <opt> <file> > Output the file contents
 -A > Show all
 -n <numb> > number all output lines
 less <file> > Output large files by pg.
 head <file> > Output the first 10 lines
 cmd > <file> > Save output to file
 cmd >> <file> > Append output to file

PIPES & OUTPUTS

cmd1 | cmd2 > Output cmd1 to cmd2
 cmd1 ; cmd2 > Run cmd1 then cmd2
 cmd1 && cmd2 > Run c2 if c1 successful
 cmd1 || cmd2 > Run c2 if c1 not success

NETWORK

ping <host> > Ping host & disp. status
 -c <numb> > Limit request echos
 -i <numb> > Ping interval
 -s <numb> > Change package size
 -w <numb> > Time limit
 nmap <ip> <opt> > Scan IPs & Ports
 -p > Port to scan
 -F > Fast scan
 -sA > Firewall detection
 -sn > Scan for active hosts
 -O > Detect OS
 nc <ip> <port/ports> > Test connection to ip
 telnet <ip> <port> > Test connection to ip
 -u > UDP mode
 -v > Be verbose
 -vv > Be very verbose
 -z > Scan ports I/O 0
 whois <domain> > Output whois info
 curl <opt> <url> > Transfer data to server
 -o <filename> > Save downloaded file
 -O > Save with default name
 -u <usr>:<pwd> > Verbose cmd
 -T <filename> > Transfer file to ftp
 -X <proxy> > Use proxy to access
 ssh <user>@<host> > SSH connection
 scp <f> <u>@<h> > Transfer file to host

PERMISSIONS

chmod <755> <file> > Change file permissions
 -R > Change dir permissions
 ** Common: 777, 644, 755, 700, 666
 chown <u>:<gr> <f> > Change file ownership