An A-Z Index of the Linux command line: bash + utilities.

```
Create an alias •
 alias
 apropos Search Help manual pages (man -k)
  apt-get Search for and install software packages
(Debian/Ubuntu)
 aptitude Search for and install software packages
(Debian/Ubuntu)
         Spell Checker
 aspell
          Find and Replace text, database sort/validate/index
 awk
b
 basename Strip directory and suffix from filenames
 bash
         GNU Bourne-Again SHell
          Arbitrary precision calculator language
 bc
          Send to background
 bq
 bind
          Set or display readline key and function bindings •
 break
         Exit from a loop •
 builtin Run a shell builtin
 bzip2     Compress or decompress named file(s)
С
 cal
          Display a calendar
          Conditionally perform a command
 case
          Concatenate and print (display) the content of files
 cat
 cd
          Change Directory
 cfdisk Partition table manipulator for Linux
 chattr Change file attributes on a Linux file system
 chgrp Change group ownership
 chmod
         Change access permissions
         Change file owner and group
 chown
 chroot Run a command with a different root directory
 chkconfig System services (runlevel)
 cksum Print CRC checksum and byte counts
 clear
          Clear terminal screen
          Compare two files
 cmp
 comm
          Compare two sorted files line by line
 command Run a command - ignoring shell functions .
 continue Resume the next iteration of a loop .
          Copy one or more files to another location
 ср
          Daemon to execute scheduled commands
 cron
  crontab Schedule a command to run at a later time
 csplit
          Split a file into context-determined pieces
 curl
          Transfer data from or to a server
          Divide a file into several parts
 cut
d
          Display or change the date & time
 date
 dc
          Desk Calculator
```

```
Convert and copy a file, write disk headers, boot
 dd
records
 ddrescue Data recovery tool
 declare Declare variables and give them attributes •
 df
          Display free disk space
 diff
          Display the differences between two files
 diff3
          Show differences among three files
 dia
          DNS lookup
          Briefly list directory contents
 dircolors Colour setup for `ls'
 dirname Convert a full pathname to just a path
 dirs
      Display list of remembered directories
          Print kernel & driver messages
 dmesq
 du
          Estimate file space usage
 echo
          Display message on screen •
          Search file(s) for lines that match an extended
 egrep
expression
         Eject removable media
 eject
 enable Enable and disable builtin shell commands •
        Environment variables
 ethtool Ethernet card settings
 eval
         Evaluate several commands/arguments
 exec
          Execute a command
          Exit the shell
 exit
         Automate arbitrary applications accessed over a
 expect
terminal
 expand Convert tabs to spaces
          Set an environment variable
 export
          Evaluate expressions
 expr
f
 false
         Do nothing, unsuccessfully
 fdformat Low-level format a floppy disk
  fdisk
          Partition table manipulator for Linux
          Send job to foreground
  fa
  fgrep
          Search file(s) for lines that match a fixed string
  file
          Determine file type
  find
          Search for files that meet a desired criteria
 fmt
          Reformat paragraph text
  fold
          Wrap text to fit a specified width.
          Expand words, and execute commands
  for
  format
          Format disks or tapes
  free
          Display memory usage
          File system consistency check and repair
  fsck
          File Transfer Protocol
  ftp
  function Define Function Macros
  fuser Identify/kill the process that is accessing a file
```

```
g
 gawk
         Find and Replace text within file(s)
 getopts Parse positional parameters
 grep
         Search file(s) for lines that match a given pattern
 groupadd Add a user security group
 groupdel Delete a group
 groupmod Modify a group
        Print group names a user is in
 groups
 gzip
          Compress or decompress named file(s)
h
 hash
         Remember the full pathname of a name argument
 head
          Output the first part of file(s)
         Display help for a built-in command •
 help
 history Command History
 hostname Print or set system name
 htop
       Interactive process viewer
i
 iconv
         Convert the character set of a file
 id
          Print user and group id's
 if
         Conditionally perform a command
 ifconfig Configure a network interface
 ifdown Stop a network interface
 ifup
         Start a network interface up
 import Capture an X server screen and save the image to file
  install Copy files and set attributes
 iostat Report CPU and i/o statistics
          Routing, devices and tunnels
 ip
j
          List active jobs •
  jobs
          Join lines on a common field
 join
k
 kill
        Kill a process by specifying its PID
 killall Kill processes by name
1
 less
          Display output one screen at a time
  let
          Perform arithmetic on shell variables •
 link
         Create a link to a file
 ln
          Create a symbolic link to a file
 local
         Create a function variable •
 locate Find files
 logname Print current login name
  logout Exit a login shell •
  look
          Display lines beginning with a given string
  lpc
         Line printer control program
          Off line print
  lpr
  lprint Print a file
  lprintd Abort a print job
```

```
lprintq List the print queue
  lprm
          Remove jobs from the print queue
  lsattr
          List file attributes on a Linux second extended file
system
  lsblk
          List block devices
  ls
          List information about file(s)
  lsof
          List open files
  lspci
          List all PCI devices
m
 make
          Recompile a group of programs
          Help manual
 man
 mkdir
         Create new folder(s)
 mkfifo Make FIFOs (named pipes)
  mkfile Make a file
  mkisofs Create an hybrid ISO9660/JOLIET/HFS filesystem
 mknod
         Make block or character special files
 mktemp Make a temporary file
         Display output one screen at a time
 more
          Browse or page through a text file
 most
  mount
         Mount a file system
 mtools Manipulate MS-DOS files
        Network diagnostics (traceroute/ping)
 mtr
  m\7
          Move or rename files or directories
          Mass Move and rename (files)
  mmv
n
         Netcat, read and write data across networks
  nc
  netstat Networking connections/stats
  nft
          nftables for packet filtering and classification
          Set the priority of a command or job
  nice
  nl
          Number lines and write files
  nohup
          Run a command immune to hangups
 notify-send Send desktop notifications
 nslookup Query Internet name servers interactively
          Open a file in its default application
  open
          Operator access
  op
 passwd Modify a user password
 paste Merge lines of files
 pathchk Check file name portability
          Performance analysis tools for Linux
  Perf
 ping
          Test a network connection
  pgrep
          List processes by name
 pkill
         Kill processes by name
          Restore the previous value of the current directory
  popd
          Prepare files for printing
  printcap Printer capability database
```

```
printenv Print environment variables
printf Format and print data •
        Process status
ps
pushd
        Save and then change the current directory
        Monitor the progress of data through a pipe
vq
        Print Working Directory
pwd
        Display disk usage and limits
quota
quotacheck Scan a file system for disk usage
        ram disk device
ram
rar
        Archive files with compression
        Copy files between two machines
rcp
        Read a line from standard input •
read
readarray Read from stdin into an array variable •
readonly Mark variables/functions as readonly
reboot Reboot the system
rename Rename files
renice Alter priority of running processes
remsync Synchronize remote files via email
return Exit a shell function
       Reverse lines of a file
rev
rm
       Remove files
rmdir
       Remove folder(s)
       Remote file copy (Synchronize file trees)
rsync
screen Multiplex terminal, run remote shells via ssh
      Secure copy (remote file copy)
scp
       Merge two files interactively
sdiff
       Stream Editor
sed
select Accept keyboard input
       Print numeric sequences
seq
       Manipulate shell variables and functions
set
       Secure File Transfer Program
sftp
shift
       Shift positional parameters
shopt
        Shell Options
shutdown Shutdown or restart linux
sleep Delay for a specified time
slocate Find files
       Sort text files
sort
source Run commands from a file '.'
split Split a file into fixed-size pieces
        Socket Statistics
SS
        Secure Shell client (remote login program)
ssh
      Display file or file system status
stat
strace Trace system calls and signals
        Substitute user identity
```

```
sudo
          Execute a command as another user
  sum
          Print a checksum for a file
  suspend Suspend execution of this shell .
  sync
          Synchronize data on disk with memory
t
 tail
          Output the last part of file
 tar
          Store, list or extract files in an archive
          Redirect output to multiple files
 tee
 test
          Evaluate a conditional expression
 time
          Measure Program running time
 timeout Run a command with a time limit
 times
         User and system times
 touch
          Change file timestamps
 top
          List processes running on the system
          Set terminal-dependent capabilities, color, position
 tput
 traceroute Trace Route to Host
 trap
           Execute a command when the shell receives a signal •
          Translate, squeeze, and/or delete characters
 tr
          Do nothing, successfully
 true
 tsort
          Topological sort
          Print filename of terminal on stdin
 tty
          Describe a command •
 type
11
          Limit user resources •
 ulimit
 umask
         Users file creation mask
 umount Unmount a device
 unalias Remove an alias •
 uname Print system information
 unexpand Convert spaces to tabs
        Uniquify files
 uniq
          Convert units from one scale to another
 units
         Extract files from a rar archive
 unrar
         Remove variable or function names
 unset
 unshar Unpack shell archive scripts
 until
         Execute commands (until error)
 uptime Show uptime
 useradd Create new user account
 userdel Delete a user account
 usermod Modify user account
          List users currently logged in
 uuencode Encode a binary file
 uudecode Decode a file created by uuencode
V
          Verbosely list directory contents (`ls -l -b')
 vdir
          Verbosely list directory contents (`ls -l -b')
 vi
          Text Editor
  vmstat
         Report virtual memory statistics
```

```
W
           Show who is logged on and what they are doing
 W
         Wait for a process to complete ullet
 wait
  watch
          Execute/display a program periodically
          Print byte, word, and line counts
  WC
  whereis Search the user's $path, man pages and source files
for a program
  which Search the user's $path for a program file
  while
          Execute commands
          Print all usernames currently logged in
  who
 whoami Print the current user id and name (`id -un')
wget Retrieve web pages or files via HTTP, HTTPS or FTP
write Send a message to another user
  xargs Execute utility, passing constructed argument list(s)
  xdq-open Open a file or URL in the user's preferred
application.
           Compress or decompress .xz and .lzma files
  ΧZ
           Print a string until interrupted
  yes
           Package and compress (archive) files.
  zip
           Run a command script in the current shell
  1.1
           Run the last command again
  ###
           Comment / Remark
```

Commands marked • are bash built-ins