

LINUX
Commands

Shell Job Control

- jobs** → List your jobs.
- &** → Run a job in the background.
- ^Z** → Suspend the current (foreground) job.
- suspend** → Suspend a shell.
- fg** → Unsuspend a job: bring it into the foreground.
- bg** → Make a suspended job run in the background.

Basic File Operations

- ls** → List files in a directory.
- cp** → Copy a file.
- mv** → Rename ("move") a file.
- rm** → Delete ("remove") a file.
- ln** → Create links (alternative names) to a file.
- shred** → Completely erase a file when the file is deleted

Directory Operations

- cd** → Change your current directory.
- pwd** → Print the name of your current directory, i.e., "where you are now" in the filesystem.
- basename** → Print the final part of a file path.
- dirname** → Print a file path without its final part.
- mkdir** → Create (make) a directory.
- rmdir** → Delete (remove) an empty directory.
- rm -r** → Delete a nonempty directory and its contents.

File Viewing

- cat** → View files in their entirety.
- less** → View text files one page at a time.
- head** → View the first lines of a text file.
- tail** → View the last lines of a text file.
- nl** → View text files with their lines numbered.
- strings** → Display text that's embedded in a binary file.
- od** → View data in octal (or other formats).
- xxd** → View data in hexadecimal.
- acroread** → View PDF files.
- gv** → View PostScript or PDF files.
- xdvi** → View TeX DVI files.

File Creation and Editing

- emacs** → Text editor from Free Software Foundation.
- vim** → Text editor, extension of Unix vi.
- soffice** → Office suite for editing Microsoft Word, Excel, and PowerPoint documents.
- abiword** → Edit Microsoft Word documents.
- gnumeric** → Edit Excel spreadsheets.

File Properties

- stat** → Display attributes of files and directories.
- wc** → Count bytes, words, lines in a file.
- du** → Measure disk usage of files and directories.
- file** → Identify (guess) the type of a file.
- touch** → Change timestamps of files and directories.
- chown** → Change owner of files and directories.
- chgrp** → Change group ownership of files and directories.
- chmod** → Change protection mode of files and directories.
- umask** → Set a default mode for new files and directories.
- chattr** → Change extended attributes of files and directories.
- lsattr** → List extended attributes of files and directories.

File Location

- find** → Locate files in a directory hierarchy.
- xargs** → Process a list of located files (and much more).
- locate** → Create an index of files, and search the index for string.
- which** → Locate executables in your search path (command).
- type** → Locate executables in your search path (bash built-in).
- whereis** → Locate executables, documentation, and source files.

File Text Manipulation

- grep** → Find lines in a file that match a regular expression.
- cut** → Extract columns from a file.
- paste** → Append columns.
- tr** → Translate characters into other characters.
- sort** → Sort lines of text by various criteria.
- uniq** → Locate identical lines in a file.
- tee** → Copy a file and print it on standard output, simultaneously.

File Compression and Packaging

- tar** → Package multiple files into a single file.
- gzip** → Compress files with GNU Zip.
- gunzip** → Uncompress GNU Zip files.
- bzip2** → Compress files in BZip format.
- bunzip2** → Uncompress BZip files.
- bzcat** → Compress/uncompress BZip files via standard input/output.
- compress** → Compress files with traditional Unix compression.
- uncompress** → Uncompress files with traditional Unix compression.
- zcat** → Compress/uncompress file via standard input/output (gzip or compress).
- zip** → Compress files in Windows Zip format.
- unzip** → Uncompress Windows Zip files.
- metamail** → Extract MIME data to files.

File Comparison

- diff** → Line-by-line comparison of two files or directories.
- comm** → Line-by-line comparison of two sorted files.
- cmp** → Byte-by-byte comparison of two files.
- md5sum** → Compute a checksum of the given files (MD5).

Printing

- lpr** → Print a file.
- lpq** → View the print queue.
- lprm** → Remove a print job from the queue.

Spell Checking

- look** → Look up the spelling of a word quickly.
- aspell** → Interactive spelling checker.
- spell** → Batch spelling checker.

Disks and Filesystems

- df** → Display available space on mounted filesystems.
- mount** → Make a disk partition accessible.
- umount** → Unmount a disk partition (make it inaccessible).
- fsck** → Check a disk partition for errors.
- sync** → Flush all disk caches to disk.
- lshw**
- lsls**
- lsblk**

Backups and Remote Storage

- dump** → Write a disk partition to a backup medium.
- restore** → Restore the results of a dump.
- cdrecord** → Burn a CD, DVD, or Blu-ray disc.
- rsync** → Mirror a set of files onto another device or host.
- mt** → Control a tape drive.

Viewing Processes

- ps** → List process.
- uptime** → View the system load.
- w** → List active processes for all users.
- top** → Monitor resource-intensive processes interactively.
- htop**
- iotop**
- powertop**
- gnome-system-monitor** → Monitor system load and processes graphically.
- xload** → Simple, graphical monitor of system load.
- free** → Display free memory.
- pidof** → Command, which looks up and prints the PID of a process by its name
- nmon**

ssh

munin - monitoring

check

Controlling Processes

- kill** → Terminate a process (or send it a signal).
- killall**
- nice** → Invoke a program at a particular priority.
- renice** → Change a process's priority as it runs.
- cpulimit**

Scheduling Jobs

- sleep** → Wait a set number of seconds, doing nothing.
- watch** → Run a program at set intervals.
- at** → Schedule a job for a single, future time.
- crontab** → Schedule jobs for many future times.

Logins, Logouts, and Shutdowns

shutdown

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