

Basic Unix Commands

Knowing **basic Unix commands** should allow you to navigate your Unix or Linux system, confirm current system status and manage files or directories.

UPDATE 01/2019: I'll be publishing a short **video walkthrough of Basic Unix Commands** here at the top of the page shortly.

Getting help in Unix

- [man](#) – view manual pages for Unix commands

Unix Shell Commands

- [clear](#) – clear screen
- [history](#) – show history of previous commands

Time and Date commands

- [date](#) – show current date and time
- [sleep](#) – wait for a given number of seconds
- [uptime](#) – find out how long the system has been up

Unix users commands

These commands allow you to get basic information about Unix users in your environment.

- [whoami](#) – show your username
- [id](#) – print user identity
- [groups](#) – show which groups user belongs to
- [passwd](#) – change user password
- [who](#) – find out who is logged into the system
- [last](#) – show history of logins into the system

Unix file operations

Navigating filesystem and managing files and access permissions:

- [ls](#) – list files and directories
- [cp](#) – copy files (work in progress)
- [rm](#) – remove files and directories (work in progress)
- [mv](#) – rename or move files and directories to another location
- [chmod](#) – change file/directory access permissions
- [chown](#) – change file/directory ownership

Text file operations in Unix

Most of important configuration in Unix is in clear text

files, these commands will let you quickly inspect files or view logs:

- [cat](#) – concatenate files and show contents to the standard output
- [more](#) – basic pagination when viewing text files or parsing Unix commands output
- [less](#) – an improved pagination tool for viewing text files (better than [more command](#))
- [head](#) – show the first 10 lines of text file (you can specify any number of lines)
- [tail](#) – show the last 10 lines of text file (any number can be specified)
- [grep](#) – search for patterns in text files

Unix directory management commands

Navigating filesystems and managing directories:

- [cd](#) – change directory
- [pwd](#) – confirm current directory
- [ln](#) – make links and symlinks to files and directories
- [mkdir](#) – make new directory
- [rmdir](#) – [remove directories in Unix](#)

Unix system status commands

Most useful commands for reviewing hostname configuration and vital stats:

- [hostname](#) – show or set server hostname
- [w](#) – display system load, who's logged in and what they are doing
- [uname](#) – print Unix system information

Reboot

- **shutdown** – graceful shutdown and reboot of your system
- **halt** – ungraceful (without stopping OS services) shutdown
- **reboot** – ungraceful reboot (without stopping OS services)

Networking commands in Unix

Most useful commands for inspecting network setup and exploring network connections and ports:

- [ifconfig](#) – show and set IP addresses (found almost everywhere)
- [ip](#) – show and set IP addresses (in recent Linux versions)
- [ping](#) – check if remote host is reachable via ICMP ping
- [netstat](#) – show network stats and routing information

Process management

Listing processes and confirming their status, and stopping

processes if needed:

- [ps](#) – list processes
- [top](#) – show tasks and system status
- [kill](#) – kill a process (stop application running)

Remote access commands

ssh is really the only way to go, but it's important to know telnet as well:

- [telnet](#) – clear-text (insecure) remote access protocol
- [ssh](#) – Secure SHell – encrypted remote access client
 - check out the [SSH reference](#)!

File transfers commands

Always useful to know how to copy files between servers or just download some package from the web:

- [ftp](#) – clear-text (insecure!) File Transfer Protocol client
- [sftp](#) – secure (encrypted) version of FTP
- [scp](#) – secure (encrypted) version of [cp command](#)
- [wget](#) – download files from remote servers, HTTP/HTTPS and FTP

See also

- [Basic Linux Commands](#)
- [Unix Commands](#)
- [Linux Commands](#)
- [macOS commands](#)
- [Advanced Unix commands](#)