

Unix/Linux Command Reference

| File Commands | | |
|--------------------|-----------------|---|
| 1. | ls | Directory listing |
| 2. | ls -al | Formatted listing with hidden files |
| 3. | ls -lt | Sorting the Formatted listing by time modification |
| 4. | cd dir | Change directory to dir |
| 5. | cd | Change to home directory |
| 6. | pwd | Show current working directory |
| 7. | mkdir dir | Creating a directory dir |
| 8. | cat >file | Places the standard input into the file |
| 9. | more file | Output the contents of the file |
| 10. | head file | Output the first 10 lines of the file |
| 11. | tail file | Output the last 10 lines of the file |
| 12. | tail -f file | Output the contents of file as it grows,starting with the last 10 lines |
| 13. | touch file | Create or update file |
| 14. | rm file | Deleting the file |
| 15. | rm -r dir | Deleting the directory |
| 16. | rm -f file | Force to remove the file |
| 17. | rm -rf dir | Force to remove the directory dir |
| 18. | cp file1 file2 | Copy the contents of file1 to file2 |
| 19. | cp -r dir1 dir2 | Copy dir1 to dir2;create dir2 if not present |
| 20. | mv file1 file2 | Rename or move file1 to file2,if file2 is an existing directory |
| 21. | ln -s file link | Create symbolic link link to file |
| Process management | | |
| 1. | ps | To display the currently working processes |
| 2. | top | Display all running process |

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| 3. | kill pid | Kill the process with given pid |
| 4. | killall proc | Kill all the process named proc |
| 5. | pkill pattern | Will kill all processes matching the pattern |
| 6. | bg | List stopped or background jobs, resume a stopped job in the background |
| 7. | fg | Brings the most recent job to foreground |
| 8. | fg n | Brings job n to the foreground |

File permission

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|----|------------------|---|
| 1. | chmod octal file | Change the permission of file to octal, which can be found separately for user, group, world by adding, <ul style="list-style-type: none"> • 4-read(r) • 2-write(w) • 1-execute(x) |
|----|------------------|---|

Searching

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|----|------------------------|---|
| 1. | grep pattern file | Search for pattern in file |
| 2. | grep -r pattern dir | Search recursively for pattern in dir |
| 3. | command grep pattern | Search pattern in the output of a command |
| 4. | locate file | Find all instances of file |
| 5. | find . -name filename | Searches in the current directory (represented by a period) and below it, for files and directories with names starting with filename |
| 6. | pgrep pattern | Searches for all the named processes, that matches with the pattern and, by default, returns their ID |

System Info

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|----|--------|--------------------------------|
| 1. | date | Show the current date and time |
| 2. | cal | Show this month's calendar |
| 3. | uptime | Show current uptime |
| 4. | w | Display who is on line |
| 5. | whoami | Who you are logged in as |

| | | |
|-----|-------------------|--|
| 6. | finger user | Display information about user |
| 7. | uname -a | Show kernel information |
| 8. | cat /proc/cpuinfo | Cpu information |
| 9. | cat proc/meminfo | Memory information |
| 10. | man command | Show the manual for command |
| 11. | df | Show the disk usage |
| 12. | du | Show directory space usage |
| 13. | free | Show memory and swap usage |
| 14. | whereis app | Show possible locations of app |
| 15. | which app | Show which applications will be run by default |

Compression

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|----|---------------------------|---|
| 1. | tar cf file.tar file | Create tar named file.tar containing file |
| 2. | tar xf file.tar | Extract the files from file.tar |
| 3. | tar czf file.tar.gz files | Create a tar with Gzip compression |
| 4. | tar xzf file.tar.gz | Extract a tar using Gzip |
| 5. | tar cjf file.tar.bz2 | Create tar with Bzip2 compression |
| 6. | tar xjf file.tar.bz2 | Extract a tar using Bzip2 |
| 7. | gzip file | Compresses file and renames it to file.gz |
| 8. | gzip -d file.gz | Decompresses file.gz back to file |

Network

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|----|--------------|-----------------------------------|
| 1. | ping host | Ping host and output results |
| 2. | whois domain | Get whois information for domains |
| 3. | dig domain | Get DNS information for domain |
| 4. | dig -x host | Reverse lookup host |
| 5. | wget file | Download file |
| 6. | wget -c file | Continue a stopped download |

Shortcuts

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|----|--------|---|
| 1. | ctrl+c | Halts the current command |
| 2. | ctrl+z | Stops the current command, resume with fg in the foreground or bg in the background |
| 3. | ctrl+d | Logout the current session, similar to exit |
| 4. | ctrl+w | Erases one word in the current line |
| 5. | ctrl+u | Erases the whole line |
| 6. | ctrl+r | Type to bring up a recent command |
| 7. | !! | Repeats the last command |
| 8. | exit | Logout the current session |