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|  | **Linux Cheat Sheet** |  |  |  |
|  | ***Basic Commands*** |  |  |  |
|  |  |  |  |  |
| **File and Directory Management** | |  |  | **File Manipulation** |
| [cp](https://linuxsimply.com/cp-command-in-linux/) | Copies files and directories |  | [touch](https://linuxsimply.com/touch-command-in-linux/) | Creates an empty file/modify timestamp |
| [pwd](https://linuxsimply.com/pwd-command-in-linux/) | Prints the current working directory |  | [cat](https://linuxsimply.com/cat-command-in-linux/) | Concatenates and prints file contents |
| [cd](https://linuxsimply.com/cd-command-in-linux/) | Changes current directory |  | *cat -n* | Displays the contents of a file along with line  numbers |
| *cd..* | Changes to the parent directory |  | *tac* | Concatenates and prints file contents in reverse order |
| *cd -* | Changes to the previous directory |  | [less](https://linuxsimply.com/less-command-in-linux/) | Shows contents in a scrollable manner |
| *cd ~* | Changes to the home directory |  | [head](https://linuxsimply.com/head-command-in-linux/) | Displays the first ten lines of a file |
| [ls](https://linuxsimply.com/ls-command-in-linux/) | Lists contents of the current directory |  | [tail](https://linuxsimply.com/tail-command-in-linux/) | Displays the last ten lines of a file |
| *ls -l* | Lists the files and directories in the current working directory in long format |  | [grep](https://linuxsimply.com/grep-command-in-linux/) | Searches for a specified pattern in one or more files |
| *ls -a* | Lists all files and directories including the hidden ones |  | [nano](https://linuxsimply.com/nano-command-in-linux/) | Edits and creates files |
| *ls -r* | Lists files/directories in reverse |  | [diff](https://linuxsimply.com/diff-command-in-linux/) | Compares two text files |
| [mkdir](https://linuxsimply.com/mkdir-command-in-linux/) | Creates a new directory |  | [sort](https://linuxsimply.com/sort-command-in-linux/) | Sorts lines of a text file |
| [rmdir](https://linuxsimply.com/rmdir-command-in-linux/) | Removes an empty directory |  | *sort -r* | Sorts file reversely |
| [mv](https://linuxsimply.com/mv-command-in-linux/) | Moves or renames a file /directory |  | sort -u | Removes duplicates and sorts unique values |
| [rm](https://linuxsimply.com/rm-command-in-linux/) | Removes a file/directory |  |  |  |
| *rm -i* | Prompts system confirmation before deleting |  |  | **Control System** |
| *rm -r* | Deletes a file/directory recursively |  | *poweroff* | Shuts down the system |
| *rm -d* | Deletes empty folders |  | [reboot](https://linuxsimply.com/reboot-command-in-linux/) | Restarts the system |
|  |  |  | [shutdown](https://linuxsimply.com/shutdown-command-in-linux/) | Shuts down or reboot the system |
|  | **Permissions** |  |  |  |
| [chmod](https://linuxsimply.com/chmod-command-in-linux/) | Modifies a file or directory’s read, write, and execute permissions | **System and Process Management** | | |
| [chown](https://linuxsimply.com/chown-command-in-linux/) | Changes the ownership of a file, directory, or symbolic link to a specified  username |  | [sudo](https://linuxsimply.com/sudo-command-in-linux/) | Allows a user to run a command with the privileges of another user |
| [chgrp](https://linuxsimply.com/chgrp-command-in-linux/) | Changes the group ownership of a file or directory |  | [ps](https://linuxsimply.com/ps-command-in-linux/) | Lists the running processes on a system |
|  |  |  | [kill](https://linuxsimply.com/kill-command-in-linux/) | Terminates running processes on a system |
|  | **Package Installation** |  | [killall](https://linuxsimply.com/killall-command-in-linux/) | Terminates all processes with a specified name |
| *apt install [package]* | Installs software packages from the Ubuntu package repository |  | [df](https://linuxsimply.com/df-command-in-linux/) | Displays the amount of disk space used and available on a file system |
| *apt get* | Performs package management tasks such as installing, upgrading, and removing packages |  | [du](https://linuxsimply.com/du-command-in-linux/) | Estimates file space usage |
| *Prepared By:* | *Lamisa Musharrat* | *Copyright ©2023* [*www.linuxsimply.com*](http://www.linuxsimply.com/)*| All rights reserved.* | | |
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|  | **Linux Cheat Sheet** |  |  |  |
|  | ***Basic Commands*** |  |  |  |
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|  | **File Compression** |  |  | **Miscellaneous** |
| [tar](https://linuxsimply.com/tar-command-in-linux/) | Creates, views, and extracts files from an  archive file |  | [echo](https://linuxsimply.com/echo-command-in-linux/) | Displays a line of text or a variable value on the  command line |
| [zip](https://linuxsimply.com/zip-command-in-linux/) | Creates, views, and extracts files from a  compressed archive file |  | [clear](https://linuxsimply.com/clear-command-in-linux/) | Clears the terminal window |
| [unzip](https://linuxsimply.com/unzip-command-in-linux/) | Extracts files from a compressed archive  file in the ZIP format |  | [wc](https://linuxsimply.com/wc-command-in-linux/) | Counts the number of lines, words, and characters  in a file |
| [gzip](https://linuxsimply.com/gzip-command-in-linux/) | Compresses files or directories to reduce  their size |  | [htop](https://linuxsimply.com/htop-command-in-linux/) | Displays the system’s process real-time process  activity |
| [bzip2](https://linuxsimply.com/bzip2-command-in-linux/) | Compresses files or directories to reduce their size |  | [ping](https://linuxsimply.com/ping-command-in-linux/) | Checks the connectivity between two network devices |
|  |  |  | [vim](https://linuxsimply.com/vim-command-in-linux/) | Texts editor for editing text files |
|  | **Search** |  | [exit](https://linuxsimply.com/exit-command-in-linux/) | Exits the current shell session |
| [grep ‘pattern’](https://linuxsimply.com/grep-command-in-linux/) [files](https://linuxsimply.com/grep-command-in-linux/) | Searches for a specified pattern or  regular expression in one or more files and display the matching lines |  | [shred](https://linuxsimply.com/shred-command-in-linux/) | Securely deletes the files by overwriting multiple times |
| *grep -r pattern dir* | Searches for a specified pattern or regular expression recursively in a directory and its subdirectories, and display the matching lines |  | *w* | Displays information about the currently logged-in users and their activities |
| [locate](https://linuxsimply.com/locate-command-in-linux/) | Locates files and directories on the  system |  | [ps](https://linuxsimply.com/ps-command-in-linux/) | Displays the running processes |
| [find](https://linuxsimply.com/find-command-in-linux/) | Locates files and directories on the system |  | [whatis](https://linuxsimply.com/whatis-command-in-linux/) | Displays a brief description of a command |
| *find -empty* | Searches for empty files |  | [wget](https://linuxsimply.com/wget-command-in-linux/) | Downloads files from the internet |
|  | **User Management** |  |  | **System Information** |
| [useradd](https://linuxsimply.com/useradd-command-in-linux/) | Create a new user account |  | [history](https://linuxsimply.com/history-command-in-linux/) | Displays a list of previously executed commands in  the terminal |
| [userdel](https://linuxsimply.com/userdel-command-in-linux/) | Delete a user account |  | [cal or ncal](https://linuxsimply.com/ncal-command-in-linux/) | Displays the calendar of the current month |
| [passwd](https://linuxsimply.com/passwd-command-in-linux/) | Change a user's password |  | [who](https://linuxsimply.com/who-command-in-linux/) | Displays information about currently logged-in user |
| [groupadd](https://linuxsimply.com/groupadd-command-in-linux/) | Add a new group to the system |  | [whoami](https://linuxsimply.com/whoami-command-in-linux/) | Displays the user name of the current user logged  in |
| *groupdel* | Delete an existing group from the |  | [uname](https://linuxsimply.com/uname-command-in-linux/) | Displays information about the current system and |
| Id | Display the user and group IDs  associated with the current user |  | [hostname](https://linuxsimply.com/hostname-command-in-linux/) | Displays or set the hostname of the current system |
| [su](https://linuxsimply.com/su-command-in-linux/) | Switch to another user account |  | *hostnamectl* | Queries or modifies the hostname and related  settings of the current system |
|  | **Help Documentation** |  | *date* | Displays and sets system date and time |
| [man](https://linuxsimply.com/man-command-in-linux/) | Displays the manual page of a command  or utility |  | *history -c* | Clears the history list of previously executed  commands |
|  |  |  | [df](https://linuxsimply.com/df-command-in-linux/) | Shows information about both total and available  space on a file system |
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