

Common Commands

Help Commands

Command	Description
compgen -c	Show all commands
compgen -a	Show all alias commands
compgen -A function	Show available functions
man <command>	Show manual page of a command (more info than --help)
<command> --help	Show help page of a command (less info than man command)
<command> --version	Show version of a command

File & Folder Commands

Command	Description
ls -lah	List files/folders in current directory (+infos)
mkdir newdir	Create a new folder
cd somefolder	Change/switch to another directory
cd /mnt/	change/switch to another drive
cp file.txt file-copy.txt	Copy a file
mv file.txt file-renamed.txt	Rename a file
mv file.txt /tmp	Move file to another folder
rm file.txt	Remove a file
rm -rf folder	Remove entire folder (recursive)
ln -s original target	Create a symlink
pwd	Show path of current folder

<code>chown <arguments> <user>:<group> file.txt</code>	Change Owner and Group of file (use -R for rekursive)
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Search & String Commands

Command	Description
<code>find . -name "file.txt"</code>	Search for a file (recursive)
<code>find . -name "*.txt"</code>	Search for all txt files
<code>grep -rin "search string"</code>	Search for a string in current folder (recursive)
<code>grep -rin "search string" cut -c 1-100</code>	Search for a string in current folder + limit output of string
<code>sed -Ei 's/someString/newString/g' file.txt</code>	Replace "someString" with "newString" in a file
<code>head file.txt</code>	Show first 10 lines of file
<code>tail file.txt</code>	Show last 10 lines of file
<code>cat file.txt</code>	Show full content of file
<code>cat file.txt grep "search string"</code>	Pipe output of "cat" command to grep + filter string

Terminal Search, Shortcuts & Autocompletion

Command	Description
Ctrl + a	Jump to beginning of line
Ctrl + e	Jump to end of line
Ctrl + Arrow Left	Jump word backward
Ctrl + Arrow Right	Jump word forward
Ctrl + w	Remove word backward
Alt + w	Remove word forward
Ctrl + p	Go through command line history backward
Ctrl + n	Go through command line history forward

Ctrl + r	Reverse Search in command history: <ul style="list-style-type: none"> - Type in something to search - Type Enter to execute the searched command - Type "Ctrl + r" to search further in reverse - Type "Ctrl + s" to search further in inverse - Tip: In only a few cases it makes sense to use the inverse search (Ctrl + s) from the beginning, but usually you want to search in reverse from the latest history commands
Ctrl + s	Same as "Ctrl + r" but inverse (starts from the beginning of the history)
Ctrl + f	Autocomplete a suggestion (Fish Shell only)

OS Helper Commands

Command	Description
du -csh .	Show size of current folder
df -h	Show partitions / drives
lsb_release -a	Show OS Version / Informations

Remote / Host Commands

Command	Description
wget https://www.somewhere495848.com/test.txt	Download a file
curl -LI https://www.google.com	Show Header Informations of URL
whois <host>	Show NS, DNS, Register about a host (e.g.: whois google.com)
host <host>	DNS Lookup of a host (e.g.: host google.com)
dig <host>	DNS Lookup of a host (verbose) (e.g.: dig google.com)
rsync -avz myfolder somehost:/var/www/	Sync a folder to a remote host and specific path
rsync -avz somehost:/var/www/ .	Sync from remote host and specific path to local folder
rsync -avz <dirSource> <dirTarget>	Sync entire Folder (locally)

<code>rsync -avz <dirSource>/ <dirTarget></code>	Sync only contents of folder (locally)
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Command-Line Operators

Command	Description
<code><command> > file.txt</code>	Write output of a command into a file (creates/overwrites file)
<code><command> >> file.txt</code>	Write output of a command into a file (appends at end of file)
<code><command1> && <command2></code>	Do command2 only if command1 succeeds
<code><command1> <command2></code>	Do command2 only if command1 fails
<code><command1> <command2></code>	Pipe command1 output into command2
<code>!</code>	Negation Operator (e.g. <code>find . ! -user "root"</code>)
More about operators: linux-command-operators	

Other helpful Commands

Command	Description
<code>bash myCustomScript.sh</code>	Execute a bash script
<code>history tail</code>	Show last 10 lines of your history (commands)
<code>htop</code>	Very helpful utility to show all process, cpu, ram, ..
<code>ps aux grep http</code>	Show processes who accesses http
<code>which <command></code>	Show path location of a command
<code>tar -cvf myfolder.tar myfolder</code>	Create a compressed tar file of a folder
<code>tar -xvf myfolder.tar</code>	Extract a compressed tar file
<code>zip -r myfolder.zip myfolder</code>	Create a compressed zip file
<code>unzip myfolder.zip</code>	Extract a compressed zip file
<code>EDITOR=nano crontab -e</code>	Set Editor for current shell only (temporarily)
<code>select-editor</code>	Set Editor for user (usually permanently)
<code>vim file.txt</code>	Edit a file in the Vim Editor

nano file.txt	Edit a file in the Nano Editor
sudo su - www-data -s /bin/bash	Switch User to example "www-data"

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