

# Common Commands

## Help Commands

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

## File & Folder Commands

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

pwd	Show path of current folder
chown <arguments> <user>:<group> file.txt	Change Owner and Group of file (use -R for rekursive)

## Search & String Commands

Command	Description
find . -name "file.txt"	Search for a file (recursive)
find . -name "*.txt"	Search for all txt files
grep -rin "search string"	Search for a string in current folder (recursive)
grep -rin "search string"   cut -c 1-100	Search for a string in current folder + limit output of string
sed -Ei 's/someString/newString/g' file.txt	Replace "someString" with "newString" in a file
head file.txt	Show first 10 lines of file
tail file.txt	Show last 10 lines of file
cat file.txt	Show full content of file
cat file.txt   grep "search string"	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"> <li>- Type in something to search</li> <li>- Type Enter to execute the searched command</li> <li>- Type "Ctrl + r" to search further in reverse</li> <li>- Type "Ctrl + s" to search further in inverse</li> <li>- 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</li> </ul>
Ctrl + s	Same as "Ctrl + r" but inverse (starts from the beginning of the history)
Ctrl + f	Autocomplete a suggestion ( <u>Fish Shell</u> 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

<code>rsync -avz &lt;dirSource&gt; &lt;dirTarget&gt;</code>	Sync entire Folder (locally)
<code>rsync -avz &lt;dirSource&gt;/ &lt;dirTarget&gt;</code>	Sync only contents of folder (locally)

## Command-Line Operators

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

## 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 &lt;command&gt;</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
<code>nano file.txt</code>	Edit a file in the Nano Editor
<code>sudo su - www-data -s /bin/bash</code>	Switch User to example "www-data"

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Revision #52

Created 31 July 2023 20:01:10 by Admin

Updated 28 February 2024 15:08:19