



General		Privileges	
> <b>man</b> [command]	Display the <code>man</code> pages for the <code>[command]</code>	> <b>sudo</b> [command]	Run <code>[command]</code> as superuser
> <b>[command] --help</b>	Display information about how to use the <code>[command]</code>	> <b>sudo -k</b>	Forget superuser password
> <b>[command] -h</b>	Same as <code>--help</code>	> <b>su</b>	Switch shell user to superuser
> <b>exit</b>	Logout of the current session	> <b>passwd</b>	Change the password of the current user
System		File permission	
> <b>date</b>	Display the current date and time	> <b>chmod</b> [permissions] [file]	Changes the permissions of <code>[file]</code> to <code>[permissions]</code> Permissions can be set for the <b>user</b> (owner of the file), the <b>user group</b> the file belongs to, <b>other</b> groups, or <b>all</b> . Possible permission are <b>read</b> , <b>write</b> , or <b>execute</b> . Use the following syntax to set permissions: <b>(ugo)=(w-)(r-)(x-)</b> . (- means the permission is not given.)
> <b>cal</b>	Display the month's calendar	> <b>chown</b> [owner] [file]	Changes the owner of <code>[file]</code> to <code>[owner]</code>
> <b>uptime</b>	Display the current system uptime	> <b>chgrp</b> [group] [file]	Changes the user group of <code>[file]</code> to <code>[group]</code>
> <b>whereis</b> [command]	Display possible locations of <code>[command]</code>		
> <b>which</b> [command]	Display which application will be run by <code>[command]</code>		
> <b>lsb_release -a</b>	Display the Ubuntu version		
> <b>uname -r</b>	Display the kernel version		
> <b>uname -a</b>	Display all kernel information		
> <b>df</b>	Display disk usage		
> <b>du</b>	Display directory space usage		
> <b>shutdown</b>	Shutdown the Ubuntu system		
Hardware Information			
> <b>dmesg</b>	Display bootup messages		
> <b>cat /proc/cpuinfo</b>	Display information about the CPU		
> <b>cat /proc/meminfo</b>	Display information about the memory		
> <b>free</b>	Display memory and swap usage		
> <b>lshw</b>	Display hardware configuration info		
> <b>lsblk</b>	Display block devices info		
> <b>lspci -tv</b>	Display tree-diagram of PCI devices		
> <b>lsusb -tv</b>	Display tree-diagram of USB devices		
> <b>dmidecode</b>	Display BIOS hardware info		
> <b>hdparm -i /dev/[disk]</b>	Display disk data information of <code>[disk]</code>		
> <b>hdparm -tT /dev/[disk]</b>	Display disk read speed test of <code>[disk]</code>		
> <b>badblocks -s /dev/[disk]</b>	Display unreadable blocks test of <code>[disk]</code>		
Package management			
> <b>apt update</b>	Refresh package list		
> <b>apt upgrade</b>	Upgrade all packages		
> <b>apt dist-upgrade</b>	Upgrade Ubuntu version		
> <b>apt autoremove</b>	Remove all obsolete packages		
> <b>apt install [package]</b>	Install <code>[package]</code>		
> <b>apt remove [package]</b>	Remove <code>[package]</code>		
> <b>apt search [package]</b>	Search for <code>[package]</code> in package list		
> <b>dpkg -i [package].deb</b>	Manually install <code>[package]</code> using a <code>.deb</code> file		
Directory navigation			
> <b>pwd</b>	Show current directory		
> <b>ls</b>	List the contents of the current directory (use the option <code>-al</code> to get all contents and more detailed information)		
> <b>cd [dir]</b>	Change the current working directory to <code>[dir]</code>		
> <b>cd /</b>	Change the current working directory to the root directory		
> <b>cd ~</b>	Change the current working directory to your home directory		
> <b>cd ./[subdir]</b>	Change the directory to the sub directory <code>subdir</code> of your current one		
> <b>cd ..</b>	Change the current working directory to the parent directory		
> <b>cd -</b>	Change the current working directory to the previous directory		
File management			
> <b>mkdir [dir]</b>	Create the directory <code>[dir]</code>		
> <b>touch [file]</b>	Create <code>[file]</code>		
> <b>cp [source] [target]</b>	Copy <code>[source]</code> to <code>[target]</code>		
> <b>cp -r [source] [target]</b>	Copy <code>[source]</code> to <code>[target]</code> and create directory for <code>[target]</code>		
> <b>cat [file]</b>	Outputs the contents of <code>[file]</code>		
> <b>cat &gt;[file]</b>	Writes the standard input into <code>[file]</code>		
> <b>head [file]</b>	Outputs the first 10 lines of <code>[file]</code>		
> <b>tail [file]</b>	Outputs the last 10 lines of <code>[file]</code>		
> <b>tail -f [file]</b>	Continues to output lines as <code>[file]</code> grows		
> <b>rm [file]</b>	Deletes <code>[file]</code>		
> <b>rm -r [dir]</b>	Deletes <code>[dir]</code> and contained elements		
> <b>rsync -a [directory] [backup]</b>	Sync the contents of <code>[directory]</code> with the directory <code>[backup]</code>		
Users and groups			
> <b>w</b>	Display logged in users and activity		
> <b>who</b>	Display who you are logged in as		
> <b>id</b>	Show active user details		
> <b>last</b>	Show last system logins		
> <b>finger [user]</b>	Display information about <code>[user]</code>		
> <b>usermod</b>	Modify user information		
> <b>adduser [user]</b>	Add <code>[user]</code> as a new user		
> <b>groupadd [group]</b>	Add <code>[group]</code> as a new user group		
> <b>usermod -aG [group] [user]</b>	Add user <code>[user]</code> to group <code>[group]</code>		
> <b>userdel [user]</b>	Delete the user <code>[user]</code>		
Bash variables			
> <b>[variable]="[value]"</b>	Assign <b>[value]</b> to <i>[variable]</i> (creates the variable, if it doesn't exist)		
> <b>echo \$[variable]</b>	Display the value of <i>[variable]</i>		
> <b>set</b>	Display list of all bash variables and functions		
		Searching	
		> <b>grep</b> [pattern] [file]	Search for pattern <code>[pattern]</code> in <code>[file]</code>
		> <b>grep -r</b> [pattern] [dir]	Search recursively for pattern <code>[pattern]</code> in <code>[dir]</code>
		> <b>[command]   grep</b> [pattern]	Search for pattern <code>[pattern]</code> in the output of <code>[command]</code> ( <code> </code> is a so called pipe operator and is used to forward the output of one command to the next command)
		> <b>locate</b> [file]	Find all instances of <code>[file]</code>
		> <b>find</b> [dir] -name [file]	Find all instances of <code>[file]</code> in <code>[dir]</code> or sub directories
		> <b>pgrep</b> [pattern]	Search all named processes for <code>[pattern]</code>
		System services	
		> <b>start</b> [service]	Start the job for <code>[service]</code>
		> <b>restart</b> [service]	Restart the job for <code>[service]</code>
		> <b>status</b> [service]	Check the status of the job for <code>[service]</code>
		> <b>stop</b> [service]	Stop the job for <code>[service]</code>
		Process management	
		> <b>ps</b>	Display active process snapshot
		> <b>pstree</b>	Display processes as a tree
		> <b>pmap</b>	Display process memory usage
		> <b>htop</b>	Display all running processes (use <code>top</code> if not installed)
		> <b>kill</b> [pid]	kills the process with the process id <code>[pid]</code>
		> <b>killall</b> [process]	Kills all process with the name <code>[process]</code>
		> <b>pkill</b> [pattern]	Kills all process matching <code>[pattern]</code>
		> <b>lsuf</b>	Display list of files opened by processes
		> <b>nohup</b> [command]	Execute <code>[command]</code> as a process in background
		Network	
		> <b>hostname</b>	Display system hostname
		> <b>ifconfig</b>	Show network information
		> <b>iwconfig</b>	Show wireless network information
		> <b>sudo iwlist scan</b>	Scan for wireless networks
		> <b>ping</b> [host]	Send ping to <code>[host]</code> and display the results
		> <b>whois</b> [domain]	Display whois information for <code>[domain]</code>
		> <b>dig</b> [domain]	Display DNS information for <code>[domain]</code>
		> <b>dig -x</b> [host]	Reverse lookup <code>[host]</code>
		> <b>wget</b> [file]	Download <code>[file]</code>
		> <b>wget -c</b> [file]	Continue stopped download of <code>[file]</code>
		> <b>scp</b> [file] [host]	Copy <code>[file]</code> to the directory <code>[host]</code> on a different machine
		> <b>rsync -a</b> [/location] [/backup/]	Sync the contents of a location with the backup directory
		Firewall	
		> <b>ufw enable</b>	Turn on the firewall
		> <b>ufw disable</b>	Turn off the firewall
		> <b>ufw default allow</b>	Allow all connections by default
		> <b>ufw default deny</b>	Deny all connections by default
		> <b>ufw status</b>	Display current status and rules
		> <b>ufw allow</b> [port]	Allow traffic on <code>[port]</code>
		> <b>ufw deny</b> [port]	Block <code>[port]</code>
		> <b>ufw deny from</b> [ip]	Block traffic from <code>[ip]</code>
		SSH login	
		> <b>ssh</b> [user]@[host]	Connect to <code>[host]</code> as <code>[user]</code> using ssh
		> <b>ssh</b> [host]	Connect to <i>[host]</i> via port 22
		> <b>ssh -p</b> [port] [user]@[host]	Connect to <code>[host]</code> as <code>[user]</code> using a non-default <i>[port]</i>
		Shortcuts	
		<b>ctrl + c</b>	Halt the current command
		<b>ctrl + d</b>	Logout of the current session
		<b>ctrl + w</b>	Erase the word before the cursor
		<b>ctrl + u</b>	Cut part of the line before the cursor
		<b>ctrl + k</b>	Cut part of the line after the cursor
		<b>ctrl + r</b>	Bring up a recent command
		<b>up arrow / down arrow</b>	Cycle throw the last executed commands of the session
		<b>ctrl + shift + c</b>	Copy marked section of text (marked using the mouse)
		<b>ctrl + shift + v</b>	Paste copied text
		<b>tab</b>	Autocomplete an input (doesn't work for everything, but is useful for paths for example)