

# Linux commands



# Linux commands

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# Linux commands

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# File Commands

ls	Directory listing
ls -al	Formatted listing with hidden files
ls -lt	Sorting the Formatted listing by time modification
cd dir	Change directory to dir
cd	Change to home directory
pwd	Show current working directory
mkdir dir	Creating a directory dir
cat >file	Places the standard input into the file
more file	Output the contents of the file
head file	Output the first 10 lines of the file
tail file	Output the last 10 lines of the file
tail -f file	Output the contents of file as it grows, starting with the last 10 lines

# File Commands

<b>touch file</b>	<b>touch file</b> Create or update file
<b>rm file</b>	Deleting the file
<b>rm -r dir</b>	Deleting the directory
<b>rm -f file</b>	Force to remove the file
<b>rm -rf dir</b>	Force to remove the directory dir
<b>cp file1 file2</b>	Copy the contents of file1 to file2
<b>cp -r dir1 dir2</b>	Copy dir1 to dir2;create dir2 if not present
<b>mv file1 file2</b>	Rename or move file1 to file2,if file2 is an existing
<b>ln -s file link</b>	Create symbolic link link to file

# Process Commands

<b>ps</b>	<b>To display the currently working processes</b>
<b>top</b>	top Display all running process
<b>kill pid</b>	Kill the process with given pid
<b>killall proc</b>	Kill all the process named proc
<b>bg</b>	List stopped or background jobs, resume a stopped jobs in background
<b>fg</b>	Brings the most recent job to foreground
<b>fg -n</b>	Bring job n to foreground

# Search Commands

<b>grep pattern file</b>	<b>Search for pattern in file</b>
<b>grep -r pattern dir</b>	Search recursively for pattern in dir
<b>command   grep</b>	Search pattern in the output of a command
<b>locate file</b>	Find all instances of file
<b>find . -name filename</b>	Searches in the current directory
<b>pgrep pattern</b>	pgrep pattern Searches for all the named processes , that matches with the pattern and, by default, returns their ID

## system info

<b>date</b>	<b>Shows current date</b>
<b>cal</b>	Shows calendar for month
<b>uptime</b>	Shows system uptime
<b>w</b>	Shows users
<b>whoami</b>	Shows logged in info
<b>who</b>	Shows users logged in with more details
<b>hostnamectl</b>	Gives complete system details
<b>uname -r</b>	Shows OS and kernel details
<b>lscpu</b>	Shows CPU details
<b>/proc/cpuinfo meminfo</b>	Display CPU and memory information



# redirection & pipe

<b>&gt; file</b>	<b>Make file standard output</b>
<b>&lt; file</b>	Make file standard input
<b>&gt;&gt; file</b>	Append the contents
<b>cmd;cmd</b>	Execute multiple commands
<b>cat file1 file   tee -a file3</b>	Append contents of file1 and file2 to file3
<b>cmd   more</b>	Show contents per page

# Compression

<b>tar cf file.tar file</b>	<b>Create tar named file.tar containing file</b>
<b>tar xf file.tar</b>	Extract the files from file.tar
<b>tar czf file.tar.gz files</b>	Create a tar with Gzip compression
<b>tar xzf file.tar.gz</b>	Extract a tar using Gzip
<b>tar cjf file.tar.bz2</b>	Create tar with Bzip2 compression
<b>tar xjf file.tar.bz2</b>	Extract a tar using Bzip2
<b>gzip file</b>	Compresses file and renames it to file.gz
<b>gzip -d file.gz</b>	Decompresses file.gz back to file

# Administration

<b>df -h</b>	<b>Show disk usage</b>
<b>du -h *</b>	Shows file usage
<b>mkfs</b>	Making filesystems
<b>poweroff</b>	Shutdown the system
<b>lastb</b>	Shows last bad logins

# Network info

<b>ifconfig</b>	<b>Shows info about network interfaces</b>
<b>ping</b>	Checks the network connectivity
<b>netstat</b>	Shows network statistics
<b>route -n</b>	Shows routing table
<b>traceroute</b>	Shows network path upto 30 hops

# shortcuts

<b>ctrl+c</b>	<b>Halts the current command</b>
<b>ctrl+z</b>	Stops the current command, resume with fg in the
<b>ctrl+d</b>	Logout the current session, similar to exit
<b>ctrl+w</b>	Erases one word in the current line
<b>ctrl+u</b>	Erases the whole line
<b>ctrl+r</b>	Type to bring up a recent command
<b>!!</b>	Repeats the last command
<b>exit</b>	Logout from session

## miscellaneous

<b>wall</b>	<b>Send message to all users</b>
<b>echo</b>	Display echo commands
<b>printenv</b>	Show user environment
<b>cat &lt;file&gt;</b>	Display contents of file
<b>sh &lt;file&gt;</b>	Execute the commands in file
<b>mail user</b>	Send mail to users
<b>Man &lt;cmd&gt;</b>	Manual of commands with syntax and options