

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

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

Process Commands

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

Search Commands

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

system info

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

redirection & pipe

> file	Make file standard output
< file	Make file standard input
>> file	Append the contents
<< word	Take shell i/p upto first line
cmd;cmd	Execute multiple commands
1>&2	Redirect standard output to standard error
cat file1 > file2 2> file3	Copy file1 to file2 and errors to file3
cat file1 file tee -a file3	Append contents of file1 and file2 to file3
cmd more	Show contents per page

Compression

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

Administration

df -h	Show disk usage
du -h *	Shows file usage
vmstat	Shows memory statistics
iostat	Shows IO statistics
dmesg	Shows boottime information
Mkfs	Making filesystems
Poweroff	Shutdown the system
Lastb	Shows last bad logins

Network info

ifconfig	Shows info about network interfaces
ping	Checks the network connectivity
netstat	Shows network statistics
route -n	Shows routing table
traceroute	Shows network path upto 30 hops
ethtool	Showd interface speed
whois domain	Gives info about domainname
gzip -d file.gz	Decompresses file.gz back to file
ip link	Gives details about network interfaces

shortcuts

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

miscellaneous

banner	Display characters in big size
wall	Send message to all users
echo	Display echo commands
printenv	Show user environment
cat <file>	Display contents of file
sh <file>	Execute the commands in file
mail user	Send mail to users
Man <cmd>	Manual of commands with syntax and options

miscellaneous

Traceroute	Display network path
Nmap	Show open ports
Tcpdump	Packet capturing tool
Lsof	Show open files
Wget	Download files
Dd	Disk dump
Md5sum	To check integrity of file
Man <cmd>	Manual of commands with syntax and options