Changing mode related commands

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| Command | Description |
| # chgrp group1 file1 | change group of files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chgrp)] |
| # chmod ugo+rwx directory1 | set permissions reading (r), write (w) and (x) access to users owner (u) group (g) and others (o)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod go-rwx directory1 | remove permits reading (r), write (w) and (x) access to users group (g) and others (or   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod u+s /bin/file1 | set SUID bit on a binary file - the user that running that file gets same privileges as owner   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod u-s /bin/file1 | disable SUID bit on a binary file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod g+s /home/public | set SGID bit on a directory - similar to SUID but for directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod g-s /home/public | disable SGID bit on a directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod o+t /home/public | set STIKY bit on a directory - allows files deletion only to legitimate owners   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chmod o-t /home/public | disable STIKY bit on a directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chmod)] |
| # chown user1 file1 | change owner of a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chown)] |
| # chown -R user1 directory1 | change user owner of a directory and all the files and directories contained inside   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chown)] |
| # chown user1:group1 file1 | change user and group ownership of a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chown)] |
| # find / -perm -u+s | view all files on the system with SUID configured   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # ls -lh | show permits on files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # ls /tmp | pr -T5 -W$COLUMNS | divide terminal into 5 columns   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |

Password related commands

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| Command | Description |
| # chage -E 2005-12-31 user1 | set deadline for user password   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chage)] |
| # groupadd [group] | create a new group   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=groupadd)] |
| # groupdel [group] | delete a group   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=groupdel)] |
| # groupmod -n moon sun | rename a group from moon to sun   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=groupmod)] |
| # grpck | check correct syntax and file format of '/etc/group' and groups existence   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=grpck)] |
| # newgrp - [group] | log into a new group to change default group of newly created files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=newgrp)] |
| # passwd | change password   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=passwd)] |
| # passwd user1 | change a user password (only by root)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=passwd)] |
| # pwck | check correct syntax and file format of '/etc/passwd' and users existence   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=pwck)] |
| # useradd -c "User Linux" -g admin -d /home/user1 -s /bin/bash user1 | create a new user "user1" belongs "admin" group   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=useradd)] |
| # useradd user1 | create a new user   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=useradd)] |
| # userdel -r user1 | delete a user ( '-r' eliminates home directory)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=userdel)] |
| # usermod -c "User FTP" -g system -d /ftp/user1 -s /bin/nologin user1 | change user attributes   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=usermod)] |

**yum repolist enabled | grep "mysql.\*-community.\*"**

yum install mysql mysql-server mysql-libs mysql-server

Files &Directories and disk space type commands

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| Command | Description |
| # df -h | show list of partitions mounted   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=df)] |
| # dpkg-query -W -f='${Installed-Size;10}t${Package}n' | sort -k1,1n | show the used space by installed deb packages, sorting by size (debian, ubuntu and alike)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # du -sh dir1 | estimate space used by directory 'dir1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=du)] |
| # du -sk \* | sort -rn | show size of the files and directories sorted by size   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=du)] |
| # ls -lSr |more | show size of the files and directories ordered by size   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # rpm -q -a --qf '%10{SIZE}t%{NAME}n' | sort -k1,1n | show space used by rpm packages installed sorted by size (fedora, redhat and like)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |

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| Mounting Type commands  [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c5_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c7_en.html#JUMP) | |
| Command | | Description | |
| # fuser -km /mnt/hda2 | | force umount when the device is busy   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fuser)] | |
| # mount /dev/hda2 /mnt/hda2 | | mount disk called hda2 - verify existence of the directory '/ mnt/hda2'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount /dev/fd0 /mnt/floppy | | mount a floppy disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount /dev/cdrom /mnt/cdrom | | mount a cdrom / dvdrom   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount /dev/hdc /mnt/cdrecorder | | mount a cdrw / dvdrom   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount /dev/hdb /mnt/cdrecorder | | mount a cdrw / dvdrom   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount -o loop file.iso /mnt/cdrom | | mount a file or iso image   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount -t vfat /dev/hda5 /mnt/hda5 | | mount a Windows FAT32 file system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount /dev/sda1 /mnt/usbdisk | | mount a usb pen-drive or flash-drive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # mount -t smbfs -o username=user,password=pass //WinClient/share /mnt/share | | mount a windows network share   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] | |
| # umount /dev/hda2 | | unmount disk called hda2 - exit from mount point '/ mnt/hda2' first   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=umount)] | |
| # umount -n /mnt/hda2 | | run umount without writing the file /etc/mtab - useful when the file is read-only or the hard disk is full   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=umount)] | |

Finding and Changing Dir and showing display etc types commands

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| Command | Description |
| # find / -name file1 | search file and directory into root filesystem from '/'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find / -user user1 | search files and directories belonging to 'user1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find /home/user1 -name \\*.bin | search files with '. bin' extension within directory '/ home/user1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find /usr/bin -type f -atime +100 | search binary files are not used in the last 100 days   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find /usr/bin -type f -mtime -10 | search files created or changed within 10 days   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find / -name \*.rpm -exec chmod 755 '{}' \; | search files with '.rpm' extension and modify permits   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # find / -xdev -name \\*.rpm | search files with '.rpm' extension ignoring removable partitions as cdrom, pen-drive, etc.…   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=find)] |
| # locate \\*.ps | find files with the '.ps' extension - first run 'updatedb' command   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=locate)] |
| # whereis halt | show location of a binary file, source or man   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=whereis)] |
| # which halt | show full path to a binary / executable   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=which)] |
| Command | Description |
| # cd /home | enter to directory '/ home'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cd .. | go back one level   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cd ../.. | go back two levels   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cd | go to home directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cd ~user1 | go to home directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cd - | go to previous directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd)] |
| # cp file1 file2 | copying a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cp)] |
| # cp dir/\* . | copy all files of a directory within the current work directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cp)] |
| # cp -a /tmp/dir1 . | copy a directory within the current work directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cp)] |
| # cp -a dir1 dir2 | copy a directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cp)] |
| # cp file file1 | outputs the mime type of the file as text   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=file)] |
| # iconv -l | lists known encodings   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iconv)] |
| # iconv -f fromEncoding -t toEncoding inputFile > outputFile | converting the coding of characters from one format to another   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iconv)] |
| # find . -maxdepth 1 -name \*.jpg -print -exec convert | batch resize files in the current directory and send them to a thumbnails directory (requires convert from Imagemagick)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iconv)] |
| # ln -s file1 lnk1 | create a symbolic link to file or directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ln)] |
| # ln file1 lnk1 | create a physical link to file or directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ln)] |
| # ls | view files of directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # ls -F | view files of directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # ls -l | show details of files and directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # ls -a | show hidden files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # ls \*[0-9]\* | show files and directory containing numbers   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ls)] |
| # lstree | show files and directories in a tree starting from root(2)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lstree)] |
| # mkdir dir1 | create a directory called 'dir1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkdir)] |
| # mkdir dir1 dir2 | create two directories simultaneously   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkdir)] |
| # mkdir -p /tmp/dir1/dir2 | create a directory tree   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkdir)] |
| # mv dir1 new\_dir | rename / move a file or directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mv)] |
| # pwd | show the path of work directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=pwd)] |
| # rm -f file1 | delete file called 'file1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rm)] |
| # rm -rf dir1 | remove a directory called 'dir1' and contents recursively   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rm)] |
| # rm -rf dir1 dir2 | remove two directories and their contents recursively   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rm)] |
| # rmdir dir1 | delete directory called 'dir1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rmdir)] |
| # touch -t 0712250000 file1 | modify timestamp of a file or directory - (YYMMDDhhmm)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=touch)] |
| # tree | show files and directories in a tree starting from root(1)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tree)] |

Initialisation and Boot & Shutdown Commands

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| Command | Description |
| # init 0 | shutdown system(2)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=init)] |
| # logout | leaving session   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=logout)] |
| # reboot | reboot(2)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=reboot)] |
| # shutdown -h now | shutdown system(1)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=shutdown)] |
| # shutdown -h 16:30 & | planned shutdown of the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=shutdown)] |
| # shutdown -c | cancel a planned shutdown of the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=shutdown)] |
| # shutdown -r now | reboot(1)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=shutdown)] |
| # telinit 0 | shutdown system(3)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=telinit)] |

Displaying &Showoff Commands

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| Command | Description |
| # arch | show architecture of machine(1)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=arch)] |
| # cal 2007 | show the timetable of 2007   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cal)] |
| # cat /proc/cpuinfo | show information CPU info   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/interrupts | show interrupts   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/meminfo | verify memory use   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/swaps | show file(s) swap   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/version | show version of the kernel   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/net/dev | show network adpters and statistics   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # cat /proc/mounts | show mounted file system(s)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # clock -w | save date changes on BIOS   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=clock)] |
| # date | show system date   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=date)] |
| # date 041217002007.00 | set date and time - MonthDayhoursMinutesYear.Seconds   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=date)] |
| # dmidecode -q | show hardware system components - (SMBIOS / DMI)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dmidecode)] |
| # hdparm -i /dev/hda | displays the characteristics of a hard-disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=hdparm)] |
| # hdparm -tT /dev/sda | perform test reading on a hard-disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=hdparm)] |
| # lspci -tv | display PCI devices   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lspci)] |
| # lsusb -tv | show USB devices   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lsusb)] |
| # uname -m | show architecture of machine(2)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=uname)] |
| # uname -r | show used kernel version   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=uname)] |

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| [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c2_en.html#JUMP) |

Attributes and Changes commands

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| Command | Description |
| # chattr +a file1 | allows write opening of a file only append mode   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +c file1 | allows that a file is compressed / decompressed automatically by the kernel   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +d file1 | makes sure that the program ignores Dump the files during backup   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +i file1 | makes it an immutable file, which can not be removed, altered, renamed or linked   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +s file1 | allows a file to be deleted safely   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +S file1 | makes sure that if a file is modified changes are written in synchronous mode as with sync   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # chattr +u file1 | allows you to recover the contents of a file even if it is canceled   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chattr)] |
| # lsattr | show specials attributes   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lsattr)] |

<Resource name="jdbc/[YourDatabaseName]"

auth="Container"

type="javax.sql.DataSource"

username="[DatabaseUsername]"

password="[DatabasePassword]"

driverClassName="com.mysql.jdbc.Driver"

url="jdbc:mysql://[yourserver]:3306/[yourapplication]"

maxActive="15"

maxIdle="3"/>

Zip & Tar Etc binding commands

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| --- | --- |
| Command | Description |
| # bunzip2 file1.bz2 | decompress a file called 'file1.bz2'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=bunzip2)] |
| # bzip2 file1 | compress a file called 'file1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=bzip2)] |
| # gunzip file1.gz | decompress a file called 'file1.gz'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=gunzip)] |
| # gzip file1 | compress a file called 'file1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=gzip)] |
| # gzip -9 file1 | compress with maximum compression   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=gzip)] |
| # rar a file1.rar test\_file | create an archive rar called 'file1.rar'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rar)] |
| # rar a file1.rar file1 file2 dir1 | compress 'file1', 'file2' and 'dir1' simultaneously   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rar)] |
| # rar x file1.rar | decompress rar archive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rar)] |
| # tar -cvf archive.tar file1 | create a uncompressed tarball   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -cvf archive.tar file1 file2 dir1 | create an archive containing 'file1', 'file2' and 'dir1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -tf archive.tar | show contents of an archive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -xvf archive.tar | extract a tarball   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -xvf archive.tar -C /tmp | extract a tarball into / tmp   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -cvfj archive.tar.bz2 dir1 | create a tarball compressed into bzip2   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -xvfj archive.tar.bz2 | decompress a compressed tar archive in bzip2   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -cvfz archive.tar.gz dir1 | create a tarball compressed into gzip   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar -xvfz archive.tar.gz | decompress a compressed tar archive in gzip   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # unrar x file1.rar | decompress rar archive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=unrar)] |
| # unzip file1.zip | decompress a zip archive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=unzip)] |
| # zip file1.zip file1 | create an archive compressed in zip   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=zip)] |
| # zip -r file1.zip file1 file2 dir1 | compress in zip several files and directories simultaneously   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=zip)] |

RPM package related commands

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| Command | Description |
| # rpm -ivh [package.rpm] | install a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -ivh --nodeeps [package.rpm] | install a rpm package ignoring dependencies requests   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -U [package.rpm] | upgrade a rpm package without changing configuration files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -F [package.rpm] | upgrade a rpm package only if it is already installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -e [package] | remove a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qa | show all rpm packages installed on the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qa | grep httpd | show all rpm packages with the name "httpd"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qi [package] | obtain information on a specific package installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qg "System Environment/Daemons" | show rpm packages of a group software   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -ql [package] | show list of files provided by a rpm package installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qc [package] | show list of configuration files provided by a rpm package installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -q [package] --whatrequires | show list of dependencies required for a rpm packet   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -q [package] --whatprovides | show capability provided by a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -q [package] --scripts | show scripts started during installation / removal   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -q [package] --changelog | show history of revisions of a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qf /etc/httpd/conf/httpd.conf | verify which rpm package belongs to a given file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qp [package.rpm] -l | show list of files provided by a rpm package not yet installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm --import /media/cdrom/RPM-GPG-KEY | import public-key digital signature   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm --checksig [package.rpm] | verify the integrity of a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -qa gpg-pubkey | verify integrity of all rpm packages installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -V [package] | check file size, permissions, type, owner, group, MD5 checksum and last modification   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -Va | check all rpm packages installed on the system - use with caution   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -Vp [package.rpm] | verify a rpm package not yet installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm -ivh /usr/src/redhat/RPMS/`arch`/[package.rpm] | install a package built from a rpm source   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm)] |
| # rpm2cpio [package.rpm] | cpio --extract --make-directories \*bin\* | extract executable file from a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpm2cpio)] |
| # rpmbuild --rebuild [package.src.rpm] | build a rpm package from a rpm source   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rpmbuild)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c10_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c12_en.html#JUMP) |

Installation and admin of RPM Commands

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| Command | Description |
| # yum -y install [package] | download and install a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum localinstall [package.rpm] | That will install an RPM, and try to resolve all the dependencies for you using your repositories.   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum -y update | update all rpm packages installed on the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum update [package] | upgrade a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum remove [package] | remove a rpm package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum list | list all packages installed on the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum search [package] | find a package on rpm repository   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum clean [package] | clean up rpm cache erasing downloaded packages   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum clean headers | remove all files headers that the system uses to resolve dependency   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |
| # yum clean all | remove from the cache packages and headers files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=yum)] |

DEB package Admin Commands

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| Command | Description |
| # dpkg -i [package.deb] | install / upgrade a deb package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -r [package] | remove a deb package from the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -l | show all deb packages installed on the system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -l | grep httpd | show all deb packages with the name "httpd"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -s [package] | obtain information on a specific package installed on system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -L [package] | show list of files provided by a package installed on system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg --contents [package.deb] | show list of files provided by a package not yet installed   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |
| # dpkg -S /bin/ping | verify which package belongs to a given file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dpkg)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c12_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c14_en.html#JUMP) |

Package Related Commands

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| Command | Description |
| # apt-cache search [package] | returns list of packages which corresponds string "searched-packages"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-cache)] |
| # apt-cdrom install [package] | install / upgrade a deb package from cdrom   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-cdrom)] |
| # apt-get install [package] | install / upgrade a deb package   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |
| # apt-get update | update the package list   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |
| # apt-get upgrade | upgrade all of the installed packages   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |
| # apt-get remove [package] | remove a deb package from system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |
| # apt-get check | verify correct resolution of dependencies   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |
| # apt-get clean | clean up cache from packages downloaded   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apt-get)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c13_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c15_en.html#JUMP) |

File Handling commands

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| Command | Description |
| # cat file1 | view the contents of a file starting from the first row   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # head -2 file1 | view first two lines of a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=head)] |
| # less file1 | similar to 'more' command but which allows backward movement in the file as well as forward movement   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=less)] |
| # more file1 | view content of a file along   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=more)] |
| # tac file1 | view the contents of a file starting from the last line   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tac)] |
| # tail -2 file1 | view last two lines of a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tail)] |
| # tail -f /var/log/messages | view in real time what is added to a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tail)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c14_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c16_en.html#JUMP) |

Accessing and comaparison concepts commands in File handling(sorting also)

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| Command | Description |
| # cat example.txt | awk 'NR%2==1' | remove all even lines from example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=awk)] |
| # echo a b c | awk '{print $1}' | view the first column of a line   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=awk)] |
| # echo a b c | awk '{print $1,$3}' | view the first and third column of a line   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=awk)] |
| # cat -n file1 | number row of a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cat)] |
| # comm -1 file1 file2 | compare contents of two files by deleting only unique lines from 'file1'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=comm)] |
| # comm -2 file1 file2 | compare contents of two files by deleting only unique lines from 'file2'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=comm)] |
| # comm -3 file1 file2 | compare contents of two files by deleting only the lines that appear on both files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=comm)] |
| # diff file1 file2 | find differences between two files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=diff)] |
| # grep Aug /var/log/messages | look up words "Aug" on file '/var/log/messages'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=grep)] |
| # grep ^Aug /var/log/messages | look up words that begin with "Aug" on file '/var/log/messages'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=grep)] |
| # grep [0-9] /var/log/messages | select from file '/var/log/messages' all lines that contain numbers   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=grep)] |
| # grep Aug -R /var/log/\* | search string "Aug" at directory '/var/log' and below   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=grep)] |
| # paste file1 file2 | merging contents of two files for columns   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=paste)] |
| # paste -d '+' file1 file2 | merging contents of two files for columns with '+' delimiter on the center   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=paste)] |
| # sdiff file1 file2 | find differences between two files and merge interactively alike "diff"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sdiff)] |
| # sed 's/string1/string2/g' example.txt | replace "string1" with "string2" in example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed '/^$/d' example.txt | remove all blank lines from example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed '/ \*#/d; /^$/d' example.txt | remove comments and blank lines from example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -e '1d' exampe.txt | eliminates the first line from file example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -n '/string1/p' | view only lines that contain the word "string1"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -e 's/ \*$//' example.txt | remove empty characters at the end of each row   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -e 's/string1//g' example.txt | remove only the word "string1" from text and leave intact all   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -n '1,5p' example.txt | print from 1th to 5th row of example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -n '5p;5q' example.txt | print row number 5 of example.txt   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sed -e 's/00\*/0/g' example.txt | replace more zeros with a single zero   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sed)] |
| # sort file1 file2 | sort contents of two files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sort)] |
| # sort file1 file2 | uniq | sort contents of two files omitting lines repeated   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sort)] |
| # sort file1 file2 | uniq -u | sort contents of two files by viewing only unique line   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sort)] |
| # sort file1 file2 | uniq -d | sort contents of two files by viewing only duplicate line   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=sort)] |
| # echo 'word' | tr '[:lower:]' '[:upper:]' | convert from lower case in upper case   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tr)] |

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| Dos and Linux and HTML Conversion commands  [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c15_en.html#JUMP) | |
| Command | | Description | |
| # dos2unix filedos.txt fileunix.txt | | convert a text file format from MSDOS to UNIX   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dos2unix)] | |
| # recode ..HTML < page.txt > page.html | | convert a text file to html   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=recode)] | |
| # recode -l | more | | show all available formats conversion   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=recode)] | |
| # unix2dos fileunix.txt filedos.txt | | convert a text file format from UNIX to MSDOS   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=unix2dos)] | |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c16_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c18_en.html#JUMP) |

Disk and Linux Files Repair etc Commands

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| Command | Description |
| # badblocks -v /dev/hda1 | check bad blocks on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=badblocks)] |
| # dosfsck /dev/hda1 | repair / check integrity of dos filesystems on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dosfsck)] |
| # e2fsck /dev/hda1 | repair / check integrity of ext2 filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=e2fsck)] |
| # e2fsck -j /dev/hda1 | repair / check integrity of ext3 filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=e2fsck)] |
| # fsck /dev/hda1 | repair / check integrity of linux filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fsck)] |
| # fsck.ext2 /dev/hda1 | repair / check integrity of ext2 filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fsck)] |
| # fsck.ext3 /dev/hda1 | repair / check integrity of ext3 filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fsck)] |
| # fsck.vfat /dev/hda1 | repair / check integrity of fat filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fsck)] |
| # fsck.msdos /dev/hda1 | repair / check integrity of dos filesystem on disk hda1   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=fsck)] |

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| SWAPING Commands  [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c17_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c19_en.html#JUMP) | |
| Command | | Description | |
| # mkswap /dev/hda3 | | create a swap filesystem   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkswap)] | |
| # swapon /dev/hda3 | | activating a new swap partition   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=swapon)] | |
| # swapon /dev/hda2 /dev/hdb3 | | activate two swap partitions   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=swapon)] | |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c19_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c21_en.html#JUMP) |

Backup and Disk related commands

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| Command | Description |
| # find /var/log -name '\*.log' | tar cv --files-from=- | bzip2 > log.tar.bz2 | find all files with '.log' extention and make an bzip archive   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=bzip2)] |
| # find /home/user1 -name '\*.txt' | xargs cp -av --target-directory=/home/backup/ --parents | find and copy all files with '.txt' extention from a directory to another   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cp)] |
| # dd bs=1M if=/dev/hda | gzip | ssh user@ip\_addr 'dd of=hda.gz' | make a backup of a local hard disk on remote host via ssh   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dd)] |
| # dd if=/dev/sda of=/tmp/file1 | backup content of the harddrive to a file   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dd)] |
| # dd if=/dev/hda of=/dev/fd0 bs=512 count=1 | make a copy of MBR (Master Boot Record) to floppy   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dd)] |
| # dd if=/dev/fd0 of=/dev/hda bs=512 count=1 | restore MBR from backup copy saved to floppy   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dd)] |
| # dump -0aj -f /tmp/home0.bak /home | make a full backup of directory '/home'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dump)] |
| # dump -1aj -f /tmp/home0.bak /home | make a incremental backup of directory '/home'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dump)] |
| # restore -if /tmp/home0.bak | restoring a backup interactively   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=restore)] |
| # rsync -rogpav --delete /home /tmp | synchronization between directories   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rsync)] |
| # rsync -rogpav -e ssh --delete /home ip\_address:/tmp | rsync via SSH tunnel   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rsync)] |
| # rsync -az -e ssh --delete ip\_addr:/home/public /home/local | synchronize a local directory with a remote directory via ssh and compression   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rsync)] |
| # rsync -az -e ssh --delete /home/local ip\_addr:/home/public | synchronize a remote directory with a local directory via ssh and compression   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=rsync)] |
| # tar -Puf backup.tar /home/user | make a incremental backup of directory '/home/user'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # ( cd /tmp/local/ && tar c . ) | ssh -C user@ip\_addr 'cd /home/share/ && tar x -p' | copy content of a directory on remote directory via ssh   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # ( tar c /home ) | ssh -C user@ip\_addr 'cd /home/backup-home && tar x -p' | copy a local directory on remote directory via ssh   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |
| # tar cf - . | (cd /tmp/backup ; tar xf - ) | local copy preserving permits and links from a directory to another   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tar)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c20_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c22_en.html#JUMP) |

Brning cd-rom drives related commands

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| Command | Description |
| # cd-paranoia -B | rip audio tracks from a CD to wav files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd-paranoia)] |
| # cd-paranoia -- | rip first three audio tracks from a CD to wav files   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cd-paranoia)] |
| # cdrecord -v gracetime=2 dev=/dev/cdrom -eject blank=fast -force | clean a rewritable cdrom   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cdrecord)] |
| # cdrecord -v dev=/dev/cdrom cd.iso | burn an ISO image   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cdrecord)] |
| # gzip -dc cd\_iso.gz | cdrecord dev=/dev/cdrom - | burn a compressed ISO image   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cdrecord)] |
| # cdrecord --scanbus | scan bus to identify the channel scsi   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=cdrecord)] |
| # dd if=/dev/hdc | md5sum | perform an md5sum on a device, like a CD   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=md5sum)] |
| # mkisofs /dev/cdrom > cd.iso | create an iso image of cdrom on disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkisofs)] |
| # mkisofs /dev/cdrom | gzip > cd\_iso.gz | create a compressed iso image of cdrom on disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkisofs)] |
| # mkisofs -J -allow-leading-dots -R -V | create an iso image of a directory   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkisofs)] |
| # mount -o loop cd.iso /mnt/iso | mount an ISO image   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c21_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c23_en.html#JUMP) |

IP and Networks Related commands

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| Command | Description |
| # dhclient eth0 | active interface 'eth0' in dhcp mode   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=dhclient)] |
| # ethtool eth0 | show network statistics of eth0   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ethtool)] |
| # host www.example.com | lookup hostname to resolve name to ip address and viceversa   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=host)] |
| # hostname | show hostname of system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=hostname)] |
| # ifconfig eth0 | show configuration of an ethernet network card   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ifconfig)] |
| # ifconfig eth0 192.168.1.1 netmask 255.255.255.0 | configure IP Address   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ifconfig)] |
| # ifconfig eth0 promisc | configure 'eth0' in promiscuous mode to gather packets (sniffing)   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ifconfig)] |
| # ifdown eth0 | disable an interface 'eth0'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ifdown)] |
| # ifup eth0 | activate an interface 'eth0'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ifup)] |
| # ip link show | show link status of all network interfaces   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ip)] |
| # iwconfig eth1 | show wireless networks   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iwconfig)] |
| # iwlist scan | wifi scanning to display the wireless connections available   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iwlist)] |
| # mii-tool eth0 | show link status of 'eth0'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mii-tool)] |
| # netstat -tup | show all active network connections and their PID   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=netstat)] |
| # netstat -tupl | show all network services listening on the system and their PID   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=netstat)] |
| # netstat -rn | show routing table alike "route -n"   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=netstat)] |
| # nslookup www.example.com | lookup hostname to resolve name to ip address and viceversa   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=nslookup)] |
| # route -n | show routing table   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=route)] |
| # route add -net 0/0 gw IP\_Gateway | configure default gateway   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=route)] |
| # route add -net 192.168.0.0 netmask 255.255.0.0 gw 192.168.1.1 | configure static route to reach network '192.168.0.0/16'   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=route)] |
| # route del 0/0 gw IP\_gateway | remove static route   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=route)] |
| # echo "1" > /proc/sys/net/ipv4/ip\_forward | activate ip routing   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=route)] |
| # tcpdump tcp port 80 | show all HTTP traffic   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tcpdump)] |
| # whois www.example.com | lookup on Whois database   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=whois)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c22_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c24_en.html#JUMP) |

Resolutions related Commands

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| Command | Description |
| # mount -t smbfs -o username=user,password=pass //WinClient/share /mnt/share | mount a windows network share   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mount)] |
| # nbtscan ip\_addr | netbios name resolution   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=nbtscan)] |
| # nmblookup -A ip\_addr | netbios name resolution   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=nmblookup)] |
| # smbclient -L ip\_addr/hostname | show remote shares of a windows host   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=smbclient)] |
| # smbget -Rr smb://ip\_addr/share | like wget can download files from a host windows via smb   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=smbget)] |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c23_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c25_en.html#JUMP) |

Tables & chain Related Commands

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| Command | Description |
| # iptables -t filter -L | show all chains of filtering table   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t nat -L | show all chains of nat table   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -F | clear all rules from filtering table   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t nat -F | clear all rules from table nat   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -X | delete any chains created by user   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -A INPUT -p tcp --dport telnet -j ACCEPT | allow telnet connections to input   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -A OUTPUT -p tcp --dport http -j DROP | block HTTP connections to output   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -A FORWARD -p tcp --dport pop3 -j ACCEPT | allow POP3 connections to forward chain   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t filter -A INPUT -j LOG --log-prefix | Logging on input chain   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE | configure a PAT (Port Address Traslation) on eth0 masking outbound packets   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |
| # iptables -t nat -A PREROUTING -d 192.168.0.1 -p tcp -m tcp --dport 22 -j DNAT --to-destination 10.0.0.2:22 | redirect packets addressed to a host to another host   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=iptables)] |

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| Process &Kill Related Commands  [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c24_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c26_en.html#JUMP) | |
| Command | | Description | |
| # free -m | | displays status of RAM in megabytes   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=free)] | |
| # kill -9 process\_id | | force closure of the process and finish it   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=kill)] | |
| # kill -1 process\_id | | force a process to reload configuration   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=kill)] | |
| # last reboot | | show history reboot   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=last)] | |
| # lsmod | | display kernel loaded   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lsmod)] | |
| # lsof -p process\_id | | display a list of files opened by processes   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lsof)] | |
| # lsof /home/user1 | | displays a list of open files in a given path system   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=lsof)] | |
| # ps -eafw | | displays linux tasks   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ps)] | |
| # ps -e -o pid,args --forest | | displays linux tasks in a hierarchical mode   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ps)] | |
| # pstree | | Shows a tree system processes   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=pstree)] | |
| # smartctl -A /dev/hda | | monitoring reliability of a hard-disk through SMART   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=smartctl)] | |
| # smartctl -i /dev/hda | | check if SMART is active on a hard-disk   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=smartctl)] | |
| # strace -c ls >/dev/null | | display system calls made and received by a process   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=strace)] | |
| # strace -f -e open ls >/dev/null | | display library calls   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=strace)] | |
| # tail /var/log/dmesg | | show events inherent to the process of booting kernel   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tail)] | |
| # tail /var/log/messages | | show system events   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=tail)] | |
| # top | | display linux tasks using most cpu   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=top)] | |
| # watch -n1 'cat /proc/interrupts' | | display interrupts in real-time   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=watch)] | |

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| Alias and booting Related & Shell related commands  [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c25_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c27_en.html#JUMP) | |
| Command | | Description | |
| # alias hh='history' | | set an alias for a command - hh = history   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=alias)] | |
| # apropos ...keyword | | display a list of commands that pertain to keywords of a program , useful when you know what your program does, but you don't know the name of the command   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=apropos)] | |
| # chsh | | change shell command   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chsh)] | |
| # chsh --list-shells | | nice command to know if you have to remote into another box   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=chsh)] | |
| # gpg -c file1 | | encrypt a file with GNU Privacy Guard   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=gpg)] | |
| # gpg file1.gpg | | decrypt a file with GNU Privacy Guard   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=gpg)] | |
| # ldd /usr/bin/ssh | | show shared libraries required by ssh program   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=ldd)] | |
| # man ping | | display the on-line manual pages for example on ping command - use '-k' option to find any related commands   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=man)] | |
| # mkbootdisk --device /dev/fd0 `uname -r` | | create a boot floppy   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=mkbootdisk)] | |
| # wget -r www.example.com | | download an entire web site   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=wget)] | |
| # wget -c www.example.com/file.iso | | download a file with the ability to stop the download and resume later   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=wget)] | |
| # echo 'wget -c www.example.com/files.iso' | at 09:00 | | start a download at any given time   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=wget)] | |
| # whatis ...keyword | | displays description of what a program does   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=whatis)] | |
| # who -a | | show who is logged on, and print: time of last system boot, dead processes, system login processes, active processes spawned by init, current runlevel, last system clock change   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=who)] | |

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| [Previous Argument](http://www.linuxguide.it/command_line/linux_command_line-c26_en.html#JUMP)     [Next Argument](http://www.linuxguide.it/command_line/linux_command_line-c28_en.html#JUMP)  Package Extra Commands | |
| Command | | Description | |
| # pacman -S name | | Install package 'name' with dependencies   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=pacman)] | |
| # pacman -R name | | Delete package 'name' and all files of it   [[man](http://www.linuxguide.it/command_line/linux-manpage/do.php?file=pacman)] | |

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