



Linux Commands Line v1.1

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COMMAND	DESCRIPTION
System information	
arch	show architecture of the machine
uname -m	show architecture of the machine
uname -r	show kernel version used
dmidecode -q	show hardware system components - (SMBIOS / DMI)
hdparm -i /dev/hda	displays the characteristics of a hard-disk
hdparm -tT /dev/sda	perform test reading on a hard-disk
cat /proc/cpuinfo	shows information CPU info
cat /proc/interrupts	show interrupts
cat /proc/meminfo	verify memory use
cat /proc/swaps	show file(s) swap
cat /proc/version	show version of the kernel
cat /proc/net/dev	show network adpters and statistics
cat /proc/mounts	show mounted file system(s)
lspci -tv	display PCI devices
lsusb -tv	show USB devices
date	show system date
cal 2007	show the timetable of 2007
date 041217002007.00	set date and time - MonthDayhoursMinutesYear.Seconds
clock -w	save changes of date on BIOS
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Shutdown, Restart of a system and Logout	
shutdown -h now	
init 0	shutdown system
shutdown -r hours:minutes &	planned shutdown of the system
shutdown -c	cancel a planned shutdown of the system
shutdown -r now	reboot
reboot	reboot
logout	leaving session
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Files and Directory	
cd /home	enter to directory '/ home'
cd	go back one level
cd/	go back two levels
cd	go to home directory
cd ~utente	go to home directory
cd -	go to previous directory
pwd	show the path of work directory
ls	view files of directory
ls -F	view files of directory
ls -l	show details of files and directory

ls -a	show hidden files	
ls *[0-9]*	show files and directory containing numbers	
tree	show files and directories in a tree starting from root	
lstree	show thes and directories in a tree starting from root	
mkdir dirl	create a directory called 'dir1'	
mkdir dir1 dir2	create two directories simultaneously	
mkdir -p /tmp/dir1/dir2	create a directory tree	
rm -f file1	delete file called 'file1'	
rmdir dirl	delete directory called 'dir1'	
rm -rf dirl	remove a directory called 'dir1' and contents recursively	
rm -rf dirl dir2	remove two directories and their contents recursively	
mv dirl new_dir	rename / move a file or directory	
cp file1 file2	copying a file	
cp dir/*.	copy all files of a directory within the current work directory	
cp -a /tmp/dirl .	copy a directory within the current work directory	
cp -a dirl dir2	copy a directory	
ln -s file1 lnk1	create a symbolic link to file or directory	
ln file1 lnk1	create a physical link to file or directory	
touch -t 0712250000 fileditest	modify timestamp of a fileor directory - (YYMMDDhhmm)	
linux commands line v1.	I - www.LinuxGuide.it	
<pre>File search find / -name file1</pre>		
· ·	search file and directory into root filesystem from '/'	
<pre>find / -user user1 find /home/user1 -name *.bin</pre>	search files and directories belonging to 'user1'	
lind / nome/useri -name \^.pin	search files with '. bin' extension within directory '/ home/user1'	
find /usr/bin -type f -atime +100	search bynary files are not used in the last 100 days	
find /usr/bin -type f -mtime -10	search files created or changed within 10 days	
find / -name *.rpm -exec chmod 755 {};	search files with '.rpm' extension and modify permits	
find / -xdev -name *.rpm	search files with '.rpm'extension ignoring removable partitions as cdrom, pen-drive, etc	
locate *.ps	find files with the '.ps' extension - first run 'updatedb' command	
whereis halt	show location of a binary file, source or man	
which halt	show full path to a binary / executable	
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Mounting a Filesystem		
mount /dev/hda2 /mnt/hda2	mount disk called hda2 - verify existence of the directory '/mnt/hda2'	
umount /dev/hda2	unmount disk calledhda2 - exit from mount point '/ mnt/hda2' first	
fuser -km /mnt/hda2	force umount when the device is busy	
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	
mount /dev/fd0 /mnt/floppy	mount a floppy disk	
mount /dev/cdrom /mnt/cdrom	mount a cdrom / dvdrom	
mount /dev/hdc /mnt/cdrecorder	mount a cdrw / dvdrom	
mount /dev/hdb /mnt/cdrecorder	mount a cdrw / dvdrom	
mount -o loop file.iso /mnt/cdrom	mount a file or iso image	
mount -t vfat /dev/hda5 /mnt/hda5	mount a Windows FAT32 file system	
mount /dev/sda1 /mnt/usbdisk	mount a usb pen-drive or flash-drive	
<pre>mount -t smbfs -o username=user,password=pass //winclient/share /mnt/share</pre>	mount a windowe naturally share	
//winclient/snare /mnt/snare linux commands line v1.	mount a windows network share	
Disk Space		
df -h	show list of partitions mounted	
<u></u>	show list of partitions infounted	

ls -lSr more	show size of the files and directories ordered by size
du -sh dir1	estimate space used by directory 'dir1'
du -sk * sort -rn	show size of the files and directories sorted by size
rpm $-q$ $-a$ qf '%10{SIZE}\t%{NAME}\n' sort $-k1$	show space used by rpm packages installed sorted by size (fedora, redhat and like)
<pre>dpkg-query -W -f='\${Installed-Size;10}\t\${Packag sort -k1,1n</pre>	e}\n' show space used by deb packages installed sorted by size (ubuntu, debian and like)
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Users and Groups	
groupadd group_name	create a new group
groupdel group_name	delete a group
groupmod -n new_group_name old_group_name	rename a group
useradd -c "Nome Cognome" -g admin -d /home/user /bin/bash user1	1 -s create a new user belongs "admin" goup
useradd user1	create a new user
userdel -r user1	delete a user ('-r' eliminates home directory)
usermod -c "User FTP" -g system -d /ftp/user1 -s /bin/nologin user1	change user attributes
passwd	change password
passwd user1	change a user password (only by root)
chage -E 2005-12-31 user1	set deadline for user password
pwck	check correct syntax and file format of '/etc/paswd' and users existence
grpck	check correct syntax and file format of '/etc/group' and
	groups existence
newgrp group_name	log in to a new group to change default group of newly created files
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Permits on File - use "+" to set permissions and "-remove	" to
ls -lh	show permits
ls /tmp pr -T5 -W\$COLUMNS	divide terminal into 5 columns
chmod ugo+rwx directoryl	set permissions reading (r), write (w) and (x)access to users owner (u) group (g) and others (o)
chmod go-rwx directory1	remove permits reading (r), write (w) and (x) access to users group (g) and others (or
chown user1 file1	change owner of a file
chown userl -R directoryl	change user owner of a directory and allthe files and directories contained inside
chgrp gruppol file1	change group of files
chown user1:gruppo1 file1	change user and group ownership of a file
find / -perm -u+s	view all files on the system with SUID configured
chmod u+s /bin/file_eseguibile	set SUID bit on a binary file - the user that running that file gets same privileges as owner
chmod u-s /bin/file_binario	disable SUID bit on a binary file
chmod g+s /home/public	set SGID bit on a directory - similar to SUID but for directory
chmod g-s /home/public	disable SGID bit on a directory
chmod o+t /home/comune	set STIKY bit on a directory - allows files deletion only to legitimate owners
chmod o-t /home/comune	disable STIKY bit on a directory
linux commands line	e v1.1 - www.LinuxGuide.it
Special Attributes on file - use "+" to set permiss and "-" to remove	sions
chattr +a file1	allows write opening of a file only append mode
chattr +c file1	allows that a file is compressed / decompressed automatically

chattr +i file1 makes it an immutable file, which cannot be removed, altered, renamed or linked chattr +s file1 allows a file to be deleted safely chattr +S file1 makes sure that if a file is modified changes are written in synchronous mode as with sync chattr +u file1 allows you to recover the contents of a file even if it is canceled lsattr show specials attributes	chattr +d file1	makes sure that the program ignores Dump the files during backup
chattr +S file1 makes sure that if a file is modified changes are written in synchronous mode as with sync chattr +u file1 allows you to recover the contents of a file even if it is canceled lsattr show specials attributes	chattr +i file1	makes it an immutable file, which cannot be removed,
synchronous mode as with sync chattr +u file1 allows you to recover the contents of a file even if it is canceled lsattr show specials attributes	chattr +s file1	allows a file to be deleted safely
canceled lsattr show specials attributes	chattr +S file1	· ·
Show specials attributes	chattr +u file1	·
linux commands line v1.1 - www.LinuxGuide.it	lsattr	show specials attributes
	linux commands line v1.1	l - www.LinuxGuide.it
Archives and compressed files	Archives and compressed files	

Archives and compressed files	
bunzip2 file1.bz2	decompress a file called 'file1.bz2'
bzip2 file1	compress a file called 'file1'
gunzip file1.gz	decompress a file called 'file1.gz'
gzip file1	compress a file called 'file1'
gzip -9 file1	compress with maximum compression
rar a file1.rar test_file	create an archive rar called 'file1.rar'
rar a file1.rar file1 file2 dir1	compress 'file1', 'file2' and 'dir1' simultaneously
rar x file1.rar	decompress rar archive
unrar x file1.rar	decompress rar archive
tar -cvf archive.tar file1	create a uncompressed tarball
tar -cvf archive.tar file1 file2 dir1	create an archive containing 'file1', 'file2' and 'dir1'
tar -tf archive.tar	show contents of an archive
tar -xvf archive.tar	extract a tarball
tar -xvf archive.tar -C /tmp	extract a tarball into / tmp
tar -cvfj archive.tar.bz2 dir1	create a tarball compressed into bzip2
tar -xvfj archive.tar.bz2	decompress a compressed tar archive in bzip2
tar -cvfz archive.tar.gz dirl	create a tarball compressed into gzip
tar -xvfz archive.tar.gz	decompress a compressed tar archive in gzip
zip file1.zip file1	create an archive compressed in zip
zip -r file1.zip file1 file2 dir1	compress in zip several files and directories simultaneously

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decompress a zip archive

unzip file1.zip

RPM Packages - Fedora, Red Hat and like	
rpm -ivh package.rpm	install a rpm package
rpm -ivhnodeeps package.rpm	install a rpm package ignoring dependencies requests
rpm -U package.rpm	upgrade a rpm package without changing configuration files
rpm -F package.rpm	upgrade a rpm package only if it is already installed
rpm -e package_name.rpm	remove a rpm package
rpm -qa	show all rpm packages installed on the system
rpm -qa grep httpd	show all rpm packages with the name "httpd"
rpm -qi package_name	obtain information on a specific package installed
rpm -qg "System Environment/Daemons"	show rpm packages of a groupsoftware
rpm -ql package_name	show list of files provided by a rpm package installed
rpm -qc package_name	show list of configuration files provided by a rpm pakage installed
rpm -q package_namewhatrequires	show list of dependencies required for a rpm packet
rpm -q package_namewhatprovides	show capability provided by a rpm package
rpm -q package_namescripts	show scripts started during installation / removal
rpm -q package_namechangelog	show history of revisions of a rpm pakage
rpm -qf /etc/httpd/conf/httpd.conf	verify which rpm package belongs to a given file
rpm -qp package.rpm -l	show list of files provided by a rpm package not yet installed
rpmimport /media/cdrom/RPM-GPG-KEY	import public-key digital signature

dpkg -L package_name dpkgcontents package.deb dpkg -S /bin/ping linux commands line v1.1 - www.LinuxGuide.it AFT packages updater - Debian, Ubuntu e like apt-get install package_name apt-get install package_name apt-get update apt-get update apt-get remove package_name apt-get check apt-get check apt-get clean linux commands line v1.1 - www.LinuxGuide.it View file content cat file1 view the contents of a file starting from the last line more file1 view content of a file along less file1 view last two lines of a file tail -2 file1 tinux commands line v1.1 - www.LinuxGuide.it Text Manipulation cat file_test [operation: sed, grep, awk, grep, syntax to elaborate the text of a file, and write result to a new show list of files provided by a package installed on system show list of files provided by a package not yet installed werify which package belongs to a given file verify which package belongs to a given file install / upgrade a deb package	rpmchecksig package.rpm	verify the integrity of a rpm package
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inc		syntax to elaborate the text of a file, and write result to a new file

Josephane Jose	<pre>cat file_originale [operazione: sed, grep, awk, grep, etc] >> result.txt</pre>	syntax to elaborate the text of a file and append result onto existing file
look up words that begin with "Aug" onto file 'messages' remp 10-0 /var/log/messages	grep Aug /var/log/messages	
Seep C-9 /*sar/log/messages Select from file 'messages' all lines that contain numbers search string 'Aug' at directory '/var/log' and below search string 'Aug' at directory '/var/log' and below search string 'Aug' at directory '/var/log' and below search string 'Aug' at directory '/var/log and '/ string '/var/log and	grep ^Aug /var/log/messages	
peep Ang8 /var/log/* sed 's/stringal'stringa2/g' example.txt remove all bank lines from example.txt remove all bank lines from example.txt remove all bank lines from example.txt remove comments and blank lines from example.txt remove and the example.txt remove and the example.txt remove complex tremove of the example.txt remove only the word 'stringl' remove and lines example.txt remove and the word 'stringl' remove and the word 'stringl' remove and lines example.txt remove and lines from lines remove all lines example.txt remove and lines	grep [0-9] /var/log/messages	
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pact //9/d/ //S/d/ example.txt pact // 9/d/ //S/d/ example.txt pact // 1/d/ result.txt pact //d/	sed 's/stringa1/stringa2/g' example.txt	
sed '' '4/d) /'8/d' example.txt comb 'compio' tr '[::owor:]' [iupper:]' comb 'compio' tr '[::owor:]' compio' tr '[:owor:]' compio' tr '[:owor:	sed '/^\$/d' example.txt	
cond = 0 '1d' result.txt	sed '/ *#/d; /^\$/d' example.txt	•
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remove empty characters at the end of each row sed == 's/stringal/y' example.txt remove only the word 'sringl' from text and leave intact all sed == 's/stringal/y' example.txt remove only the word 'sringl' from text and leave intact all sed == 's/spfq' example.txt view from 1th to 5th row sed == 's/spfq' example.txt replace more zeros with a single zero cat == n file1 number row of a file remove all lines even from examplext repair / check integrity of linus files exported on disk hdal repair / check integrity of dos filesystem on disk hdal repair / check integrity of dos filesystem on disk hdal repair / check integrity of dos filesystem on disk hdal repair / check integrity of dos filesystem on disk hdal repair / check integrity of dos file	sed -e '1d' result.txt	eliminates the first line from file example.txt
remove only the word "string1" from text and leave intact all sed =n '1,5p;5q' example.txt view from 1th to 5th row view	sed -n '/stringa1/p'	view only lines that contain the word "string1"
Section Sect	sed -e 's/ *\$//' example.txt	remove empty characters at the end of each row
Seed = n '1,5p;5q' example.lxt	sed -e 's/stringa1//g' example.txt	remove only the word "string1" from text and leave intact all
sed -e 's/00'/0/g' example.txt cat -n file1 cat cample.txt awk 'NRV2==1' replace more zeros with a single zero number row of a file cat example.txt awk 'NRV2==1' remove all lines even from exampletxt echo a b c awk '(print \$1)' view the first column of line echo a b c awk '(print \$1)' view the first column of line paute file1 file2 merging contents of two files for columns with '+' dimiter on the center sort file1 file2 word contents of two files for columns with '+' dimiter on the center sort file1 file2 uniq sort contents of two files omitting lines repeated sort file1 file2 uniq -u sort contents of two files by viewing only unique line sort file1 file2 uniq -u sort contents of two files by viewing only unique line sort file1 file2 uniq -u sort contents of two files by viewing only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only unique lines from file2' compare contents of two files by deleting only the lines that appear on both files Linux commands line vl.1 - were, LinuxGuide, it Character set and Format file conversion lines that file format from UNIX to MSDOS convert a text file format from UNIX to MSDOS convert a text file format from UNIX to MSDOS convert a text file to html Filesystem Analysis badblocks -v /dev/hda1 repair / check integrity of fext filesystem on disk hda1 repair / check integrity of ext2 filesystem on disk	sed -n '1,5p;5q' example.txt	· ·
cat = n file1 cat example.txt awk 'NR\$21' cate cat pack ('print \$1)' cate can be awk '(print \$1,53)' cate can be awk '(print \$1,53)' cate can be awk '(print \$1,53)' view the first column of line cate can be awk '(print \$1,53)' view the first column of line paste file1 file2 merging contents of two files for columns merging contents of two files for columns with '+' demiter on the center sort file1 file2 uniq sort contents of two files for columns with '+' demiter on the center sort file1 file2 uniq sort contents of two files by viewing only unique line sort contents of two files by viewing only unique line sort contents of two files by viewing only unique lines from 'file1' comma -2 file1 file2 uniq -d	sed -n '5p;5q' example.txt	view row number 5
number row of a file cat example.txt awk 'NR\$21' remove all lines even from examplext echo a b c awk '(print \$1,53)' view the first column of line paste file! file? merging contents of two files for columns with '+' demiter on the center apste -d '+' file! file? merging contents of two files for columns with '+' demiter on the center sort file! file? uniq -u sort contents of two files somiting lines repeated sort file! file? uniq -u sort contents of two files by viewing only unique line sort file! file? uniq -d sort contents of two files by viewing only unique line sort file! file? uniq -d sort contents of two files by viewing only unique line sort file! file? uniq -d sort contents of two files by viewing only unique lines from file! compare contents of two files by deleting only unique lines from file! compare contents of two files by deleting only unique lines from file? comma -2 file! file? uniq -d sort contents of two files by deleting only unique lines from file! compare contents of two files by deleting only unique lines from file? compare contents of two files by deleting only unique lines from file? compare contents of two files by deleting only unique lines from file? compare contents of two files by deleting only the lines that appear on both files linux commands line v1:1 ** sww. LinuxGuide.it* convert appear on both files linux commands line v1:1 ** sww. LinuxGuide.it* convert a text file format from UNIX to MSDOS convert a text file format from UNIX to MSDOS convert a text file format from UNIX to MSDOS convert a text file to html show all available formats conversion linux commands line v1:1 ** sww. LinuxGuide.it* Filesystem Analysis badblocks -v /dev/hda1 check bad blocks onto disk hda1 repair / check integrity of ext2 filesystem on disk hda1 repair / check integrity of ext2 filesystem on disk hda1 repair / check integrity of fext3 filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 re	sed -e 's/00*/0/g' example.txt	replace more zeros with a single zero
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paste file1 file2 merging contents of two files for columns merging contents of two files for columns with '+' dimiter on the center sort file1 file2 on the file2 sort contents of two files merging contents of two files sort file1 file2 uniq sort contents of two files on the files only unique line sort file1 file2 uniq -u sort contents of two files by viewing only unique line sort file1 file2 uniq -d sort contents of two files by viewing only unique line sort file1 file2 uniq -d sort contents of two files by deleting only unique lines from 'file1 file2 compare contents of two files by deleting only unique lines from 'file2' compare contents of two files by deleting only unique lines from 'file2' compare contents of two files by deleting only the lines that appear on both files linux commands line v1.1 - www.LinuxGuide.it Character sot and Format file conversion dos2unix filedos.txt fileunix.txt convert a text file format from MSDOS to UNIX unix2dos fileunix.txt filedos.txt convert a text file format from UNIX to MSDOS tecodeHTML < page.txx > page.html convert a text file to html show all available formats conversion linux commands line v1.1 - www.LinuxGuide.it Filesystem Analysis badblocks -v /dev/hda1 check bad blocks onto disk hda1 repair / check integrity of fext2 filesystem on disk hda1 repair / check integrity of ext3 filesystem on disk hda1 repair / check integrity of ext3 filesystem on disk hda1 repair / check integrity of fat filesystem on disk hda1 repair / check integrity of fat filesystem on disk hda1 repair / check integrity of fat filesystem on disk hda1 repair / check integrity of fat filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on disk hda1 repair / check integrity of dos filesystem on	echo a b c awk '{print \$1}'	· ·
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paste —d '+' filel file2 merging contents of two files for columns with '+' ddimiter on the center sort filel file2 uniq	paste file1 file2	merging contents of two files for columns
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dosfsck /dev/hda1 repair / check integrity of dos filesystems on disk hda1	fsck.msdos /dev/hda1	
	dosfsck /dev/hda1	
	linux commands line v1.	

create a filesystem type linux on hda1 partition

Format a Filesystem mkfs /dev/hda1

mke2fs /dev/hda1	create a filesystem type linux ext2 on hda1 partition
mke2fs -j /dev/hda1	create a filesystem type linux ex2 on hear partition
mkfs -t vfat 32 -F /dev/hda1	create a FAT32 filesystem
fdformat -n /dev/fd0	format a floppy disk
mkswap /dev/hda3	create a swap filesystem
linux commands line v1.	- V
SWAP filesystem	
mkswap /dev/hda3	create a swap filesystem
swapon /dev/hda3	activating a new swap partition
swapon /dev/hda2 /dev/hdb3	activate two swap partitions
linux commands line v1.	* *
Backup	
dump -0aj -f /tmp/home0.bak /home	make a full backup of directory '/home'
dump -laj -f /tmp/home0.bak /home	make a full backup of directory / home'
restore -if /tmp/home0.bak	
rsync -rogpavdelete /home /tmp	restoring a backup interactively synchronization between directories
rsync -rogpav -e sshdelete /home ip_address:/tmp	,
rsync -az -e sshdelete ip_addr:/home/public	rsync via SSH tunnel synchronize a local directory with a remote directory via ssh
/home/local	and compression
rsync -az -e sshdelete /home/local	synchronize a remote directory with a local directory via ssh
ip_addr:/home/public	and compression
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 s h
tar -Puf backup.tar /home/user	make a incremental backup of directory '/home/user'
(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
(tar c /home) ssh -C user@ip_addr 'cd /home/backup-home && tar x -p'	copy a local directory on remote directory via ssh
tar cf (cd /tmp/backup ; tar xf -)	local copy preserving permits and links from a directoryto
	another
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
find /var/log -name '*.log' tar cvfiles-from=- bzip2 > log.tar.bz2	find all files with 'log' extention and make an bzip archive
dd if=/dev/hda of=/dev/fd0 bs=512 count=1	make a copy of MBR (Master Boot Record) to floppy
dd if=/dev/fd0 of=/dev/hda bs=512 count=1	restore MBR from backup copy saved to floppy
linux commands line v1.3	l - www.LinuxGuide.it
CDROM	
cdrecord -v gracetime=2 dev=/dev/cdrom -eject	
blank=fast -force	clean a rewritable cdrom
mkisofs /dev/cdrom > cd.iso	create an iso image of cdrom on disk
mkisofs /dev/cdrom gzip > cd_iso.gz	create a compressed iso image of cdrom on disk
mkisofs -J -allow-leading-dots -R -V "Label CD" -iso- level 4 -o ./cd.iso data_cd	create an iso image of a directory
cdrecord -v dev=/dev/cdrom cd.iso	burn an ISO image
gzip -dc cd_iso.gz cdrecord dev=/dev/cdrom -	burn a compressed ISO image
mount -o loop cd.iso /mnt/iso	mount an ISO image
cd-paranoia -B	rip audio tracks from a CD to wav files
cd-paranoia "-3"	rip first three audio tracks from CD to way files
cdrecordscanbus	scan bus to identify the channel scsi
linux commands line v1.1	
Networking - LAN and WiFi	
ifconfig eth0	show configuration of an ethernet network card
ifup eth0	activate an interface 'eth0'
ifdown eth0	disable an interface 'eth0'
ifconfig eth0 192.168.1.1 netmask 255.255.255.0	configure IP Address
	configure it riddress

ifconfig eth0 promisc	configure 'eth0' in promiscuous mode to gather packets (sniffing)
dhclient eth0	active interface 'eth0' in dhcp mode
route -n	show routing table
route add -net 0/0 gw IP_Gateway	configura default gateway
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'
route del 0/0 gw IP_gateway	remove static route
echo "1" > /proc/sys/net/ipv4/ip_forward	activate ip routing
hostname	show hostname
host www.linuxguide.it	lookup hostname to resolve name to ip addressand viceversa
ip link show	show link status of all interfaces
mii-tool eth0	show link status of 'eth0'
ethtool eth0	show statistics of network card 'eth0'
netstat -tup	show all active network connections and their PID
netstat -tupl	show all network serviœs listening on the system and their PID
tcpdump tcp port 80	show all HTTP traffic
iwlist scan	show wireless networks
iwconfig eth1	show configuration of a wireless network card
linux commands line v1.	1 - www.LinuxGuide.it
Microsoft Windows networks - SAMBA	
nbtscan ip_addr	netbios name resolution
nmblookup -A ip_addr	netbios name resolution
smbclient -L ip_addr/hostname	show remote shares of a windows host
smbget -Rr smb://ip_addr/share	like wget can download files from a host windows via smb
mount -t smbfs -o username=user,password=pass //winclient/share /mnt/share	mount a windows network share
linux commands line v1.	1 - www.LinuxGuide.it
IPTABLES - firewall	
iptables -t filter -L	show all chains of filtering table
iptables -t nat -L	show all chains of nat table
iptables -t filter -F	clear all rules from filtering table
iptables -t nat -F	clear all rules from table nat
iptables -t filter -X	delete any chains created by user
iptables -t filter -A INPUT -p tcpdport telnet -j ACCEPT	allow telnet connections to input
iptables -t filter -A OUTPUT -p tcpdport http -j DROP	block HTTP connections to output
iptables -t filter -A FORWARD -p tcpdport pop3 -j ACCEPT	allow POP3 connections to forward chain
iptables -t filter -A INPUT -j LOGlog-prefix "DROFINPUT"	logging sulla chain di input Logging on chain input
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE	configure a PAT (Port Address Traslation) on eth0 masking outbound packets
iptables -t nat -A PREROUTING -d 192.168.0.1 -p tcp -m tcpdport 22 -j DNATto-destination	
10.0.0.2:22	redirect packets addressed to a host to another host
linux commands line v1.	1 -
Monitoring and debugging	
top	display linux tasks using most cpu
ps -eafw	displays linux tasks
ps -e -o pid,argsforest	displays linux tasks in a hierarchical mode
pstree	mostra un albero dei processi sistema Shows a tree system processes
kill -9 ID_Processo	force closure of the process and finish it
kill -1 ID_Processo	force a process to reload configuration

lsof -p \$\$	display a list of files opened by processes	
lsof /home/user1	displays a list of open files in a given path system	
strace -c ls >/dev/null	display system calls made and received by a process	
strace -f -e open ls >/dev/null	display library calls	
watch -n1 'cat /proc/interrupts'	display interrupts in real-time	
last reboot	show history reboot	
lsmod	display kernel loaded	
free -m	displays status of RAM in megabytes	
smartctl -A /dev/hda	monitoring reliability of a hard-disk through SMART	
smartctl -i /dev/hda	check if SMART is active on a hard-disk	
tail /var/log/dmesg	show events inherent to the process of booting kernel	
tail /var/log/messages	show system events	
linux commands line v1.1 - www.LinuxGuide.it		
Other useful commands		
aproposkeyword	display a list of commands that pertainto keywords of a program, useful when youknow what your program does, but you don't know the name of the command	
man ping	display the on-line manual pages for example on ping command	
whatis …keyword	displays description of what a program does	
mkbootdiskdevice /dev/fd0 `uname -r`	create a boot floppy	
gpg -c file1	encrypt a file with GNU Privacy Guard	
gpg file1.gpg	decrypt a file with GNU Privacy Guard	
wget -r www.example.com	download an entire web site	
wget -c www.example.com/file.iso	download a file with the ability to stop the download and resume later	
echo 'wget -c www.example.com/files.iso' at 09:00	start a download at any given time	
ldd ssh	show shared libraries required by ssh program	
alias hh='history'	set an alias for a command - hh = history	
linux commands line v1.1 - www.LinuxGuide.it - www.LinuxGuide.it		

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