

# Linux Commands Line v1.1

last updates 06 Jan 2008 06.54 pm

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COMMAND	DESCRIPTION
<b>System information</b>	
arch	show architecture of the machine
uname -m	show kernel version used
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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<b>Shutdown, Restart of a system and Logout</b>	
shutdown -h now	shutdown system
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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<b>Files and Directory</b>	
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	
mkdir dir1	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 dir1	delete directory called 'dir1'
rm -rf dir1	remove a directory called 'dir1' and contents recursively
rm -rf dir1 dir2	remove two directories and their contents recursively
mv dir1 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/dir1 .	copy a directory within the current work directory
cp -a dir1 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 fileeditest	modify timestamp of a file or directory - (YYMMDDhhmm)

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#### File search

find / -name file1	search file and directory into root filesystem from '/'
find / -user user1	search files and directories belonging to 'user1'
find /home/user1 -name \*.bin	search files with '. bin' extension within directory '/home/user1'
find /usr/bin -type f -atime +100	search binary 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 called hda2 - 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
mount -t smbfs -o username=user,password=pass //winclient/share /mnt/share	mount a windows network share

**Disk Space**

df -h	show list of partitions mounted
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 -k1,1n	show space used by rpm packages installed sorted by size (fedora, redhat and like)
dpkg-query -W -f='\${Installed-Size;10}\t\${Package}\n'   sort -k1,1n	show space used by deb packages installed sorted by size (ubuntu, debian and like)

**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/user1 -s /bin/bash user1	create a new user belongs "admin" group
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/passwd' 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

**Permits on File - use "+" to set permissions and "-" to remove**

ls -lh	show permits
ls /tmp   pr -T5 -W\$COLUMNS	divide terminal into 5 columns
chmod ugo+rwx directory1	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 (o)
chown user1 file1	change owner of a file
chown user1 -R directory1	change user owner of a directory and all the files and directories contained inside
chgrp gruppo1 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

**Special Attributes on file - use "+" to set permissions and "-" to remove**

chattr +a file1	allows write opening of a file only append mode
chattr +c file1	allows that a file is compressed / decompressed automatically by the kernel
chattr +d file1	makes sure that the program ignores Dump the files during backup
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

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### 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 dir1	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
unzip file1.zip	decompress a zip archive

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### RPM Packages - Fedora, Red Hat and like

rpm -ivh package.rpm	install a rpm package
rpm -ivh --nodeeps 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 group software
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 package installed
rpm -q package_name --whatrequires	show list of dependencies required for a rpm packet
rpm -q package_name --whatprovides	show capability provided by a rpm package
rpm -q package_name --scripts	show scripts started during installation / removal

rpm -q package_name --changelog	show history of revisions of a rpm package
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
rpm --import /media/cdrom/RPM-GPG-KEY	import public-key digital signature
rpm --checksig package.rpm	verify the integrity of a rpm package
rpm -qa gpg-pubkey	verify integrity of all rpm packages installed
rpm -V package_name	check file size, permissions, type, owner, group, MD5 checksum and last modification
rpm -Va	check all rpm packages installed on the system - use with caution
rpm -Vp package.rpm	verify a rpm package not yet installed
rpm2cpio package.rpm   cpio --extract --make-directories *bin*	extract executable file from a rpm package
rpm -ivh /usr/src/redhat/RPMS/`arch`/package.rpm	install a package built from a rpm source
rpmbuild --rebuild package_name.src.rpm	build a rpm package from a rpm source

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#### YUM packages updaters - Fedora, RedHat and like

yum install package_name	download and install a rpm package
yum update	update all rpm packages installed on the system
yum update package_name	upgrade a rpm package
yum remove package_name	remove a rpm package
yum list	list all packages installed on the system
yum search package_name	find a package on rpm repository
yum clean packages	clean up rpm cache erasing downloaded packages
yum clean headers	remove all files headers that the system uses to resolve dependency
yum clean all	remove from the cache packages and headers files

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#### DEB packages - Debian, Ubuntu and like

dpkg -i package.deb	install / upgrade a deb package
dpkg -r package_name	remove a deb package from the system
dpkg -l	show all deb packages installed on the system
dpkg -l   grep httpd	show all rpm packages with the name "httpd"
dpkg -s package_name	obtain information on a specific package installed on system
dpkg -L package_name	show list of files provided by a package installed on system
dpkg --contents package.deb	show list of files provided by a package not yet installed
dpkg -S /bin/ping	verify which package belongs to a given file

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#### APT packages updaters - Debian, Ubuntu and like

apt-get install package_name	install / upgrade a deb package
apt-cdrom install package_name	install / upgrade a deb package from cdrom
apt-get update	update all deb packages installed on system
apt-get remove package_name	remove a deb package from system
apt-get check	verify correct resolution of dependencies
apt-get clean	clean up cache from packages downloaded

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#### View file content

cat file1	view the contents of a file starting from the first row
tac file1	view the contents of a file starting from the last line
more file1	view content of a file along
less file1	similar to 'more' command but which allows backward movement in the file as well as forward movement

head -2 file1	view first two lines of a file
tail -2 file1	view last two lines of a file
tail -f /var/log/messages	view in real time what is added to a file
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<b>Text Manipulation</b>	
cat file_test   [operation: sed, grep, awk, grep, etc] > result.txt	syntax to elaborate the text of a file, and write result to a new file
cat file_originale   [operazione: sed, grep, awk, grep, etc] >> result.txt	syntax to elaborate the text of a file and append result onto existing file
grep Aug /var/log/messages	look up words "Aug" in the file onto 'messages'
grep ^Aug /var/log/messages	look up words that begin with "Aug" onto file 'messages'
grep [0-9] /var/log/messages	select from file 'messages' all lines that contain numbers
grep Aug -R /var/log/*	search string "Aug" at directory '/var/log' and below
sed 's/string1/string2/g' example.txt	replace "string1" with "string2" onto example.txt
sed '/^\$/d' example.txt	remove all blank lines from example.txt
sed '/ *#/d; /^\$/d' example.txt	remove comments and blank lines from example.txt
echo 'esempio'   tr '[:lower:]' '[:upper:]'	convert from lower case in upper case
sed -e '1d' result.txt	eliminates the first line from file example.txt
sed -n '/string1/p'	view only lines that contain the word "string1"
sed -e 's/ *\$//'	remove empty characters at the end of each row
sed -e 's/string1//g' 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
sed -n '5p;5q' example.txt	view row number 5
sed -e 's/00*/0/g' example.txt	replace more zeros with a single zero
cat -n file1	number row of a file
cat example.txt   awk 'NR%2==1'	remove all lines even from example.txt
echo a b c   awk '{print \$1}'	view the first column of line
echo a b c   awk '{print \$1,\$3}'	view the first and third column of line
paste file1 file2	merging contents of two files for columns
paste -d '+' file1 file2	merging contents of two files for columns with '+' delimiter on the center
sort file1 file2	sort contents of two files
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 -d	sort contents of two files by viewing only duplicate line
comm -1 file1 file2	compare contents of two files by deleting only unique lines from 'file1'
comm -2 file1 file2	compare contents of two files by deleting only unique lines from 'file2'
comm -3 file1 file2	compare contents of two files by deleting only the lines that appear on both files
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<b>Character set and Format file conversion</b>	
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
recode ..HTML < page.txt > page.html	convert a text file to html
recode -l   more	show all available formats conversion
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<b>Filesystem Analysis</b>	
badblocks -v /dev/hda1	check bad blocks onto disk hda1
fsck /dev/hda1	repair / check integrity of linux filesystem on disk hda1
fsck.ext2 /dev/hda1	repair / check integrity of ext2 filesystem on disk hda1
e2fsck /dev/hda1	repair / check integrity of ext2 filesystem on disk hda1

e2fsck -j /dev/hda1	repair / check integrity of ext3 filesystem on disk hda1
fsck.ext3 /dev/hda1	repair / check integrity of ext3 filesystem on disk hda1
fsck.vfat /dev/hda1	repair / check integrity of fat filesystem on disk hda1
fsck.msdoS /dev/hda1	repair / check integrity of dos filesystem on disk hda1
dosfsck /dev/hda1	repair / check integrity of dos filesystems on disk hda1
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<b>Format a Filesystem</b>	
mkfs /dev/hda1	create a filesystem type linux on hda1 partition
mke2fs /dev/hda1	create a filesystem type linux ext2 on hda1 partition
mke2fs -j /dev/hda1	create a filesystem type linux ext3 (journal) on hda1 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
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<b>SWAP filesystem</b>	
mkswap /dev/hda3	create a swap filesystem
swapon /dev/hda3	activating a new swap partition
swapon /dev/hda2 /dev/hdb3	activate two swap partitions
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<b>Backup</b>	
dump -0aj -f /tmp/home0.bak /home	make a full backup of directory '/home'
dump -1aj -f /tmp/home0.bak /home	make a incremental backup of directory '/home'
restore -if /tmp/home0.bak	restoring a backup interactively
rsync -rogpav --delete /home /tmp	synchronization between directories
rsync -rogpav -e ssh --delete /home ip_address:/tmp	rsync via SSH tunnel
rsync -az -e ssh --delete ip_addr:/home/public /home/local	synchronize a local directory with a remote directory via ssh and compression
rsync -az -e ssh --delete /home/local ip_addr:/home/public	synchronize a remote directory with a local directory via ssh 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 sh
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 directory to another
find /home/user1 -name '*.txt'   xargs cp -av --target-directory=/home/backup/ --parents	find and copy all files with '.txt' extension from a directory to another
find /var/log -name '*.log'   tar cv --files-from=-   bzip2 > log.tar.bz2	find all files with 'log' extension 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
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<b>CDROM</b>	
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 a CD to wav files
cdrecord --scanbus	scan bus to identify the channel scsi
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<b>Networking - LAN and WiFi</b>	
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
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	configure 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 address and 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 services 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
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<b>Microsoft Windows networks - SAMBA</b>	
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
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<b>IPTABLES - firewall</b>	
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 tcp --dport telnet -j ACCEPT	allow telnet connections to input
iptables -t filter -A OUTPUT -p tcp --dport http -j DROP	block HTTP connections to output
iptables -t filter -A FORWARD -p tcp --dport pop3 -j ACCEPT	allow POP3 connections to forward chain
iptables -t filter -A INPUT -j LOG --log-prefix "DROP INPUT"	logging sulla chain di input Logging on chain input
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE	configure a PAT (Port Address Translation) on eth0 masking outbound packets



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
--	--

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### Monitoring and debugging

top	display linux tasks using most cpu
ps -eafw	displays linux tasks
ps -e -o pid,args --forest	displays linux tasks in a hierarchical mode
pstree	mostra un albero dei processi sistemaShows 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

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### Other useful commands

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 ping	display the on-line manual pages for example on ping command
whatis ...keyword	displays description of what a program does
mkbootdisk --device /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

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