

## Basic commands

	Pipe (redirect) output
sudo [command]	run < command> in superuser mode
nohup [command]	run < command> immune to hangup signal
man [command]	display help pages of < command>
[command] &	run < command> and send task to background
>> [fileA]	append to fileA, preserving existing contents
> [fileA]	output to fileA, overwriting contents
echo -n	display a line of text
xargs	build command line from previous output
1>2&	Redirect stdout to stderr
fg %N	go to task N
jobs	list task
ctrl-z	suspend current task

## File permission

chmod -c -R	chmod file read, write and executable permission
touch -a -t	modify (or create) file timestamp
chown -c -R	change file ownership
chgrp -c -R	change file group permission
touch -a -t	modify (or create) file timestamp

## Network

netstat -r -v	print network information, routing and connections
telnet	user interface to the TELNET protocol
tcpdump	dump network traffic
ssh -i	openSSH client
ping -c	print routing packet trace to host network

## File management

find	search for a file
ls -a -C -h	list content of directory
rm -r -f	remove files and directory
locate -i	find file, using updatedb(8) database
cp -a -R -i	copy files or directory
du -s	disk usage
file -b -i	identify the file type
mv -f -i	move files or directory
grep, egrep, fgrep -i -v	print lines matching pattern

## File compression

tar xvfz	create or extract .tar or .tgz files
gzip, gunzip, zcat	create, extract or view .gz files
uencode, udecode	create or extract .Z files
zip, unzip -v	create or extract .ZIP files
rpm	create or extract .rpm files
bzip2, bunzip2	create or extract .bz2 files
rar	create or extract .rar files

## File Editor

ex	basic editor
vi	visual editor
nano	pico clone
view	view file only
emacs	extensible, customizable editor
sublime	yet another text editor
sed	stream editor
pico	simple editor

## Directory Utilities

mkdir	create a directory
rmdir	remove a directory

## File Utilities

tr -d	translate or delete character
uniq -c -u	report or omit repeated lines
split -l	split file into pieces
wc -w	print newline, word, and byte counts for each file
head -n	output the first part of files
cut -s	remove section from file
diff -q	file compare, line by line
join -i	join lines of two files on a common field
more, less	view file content, one page at a time
sort -n	sort lines in text file
comm -3	compare two sorted files, line by line
cat -s	concatenate files to the standard output
tail -f	output last part of the file

## Scripting

awk, gawk	pattern scanning
tsh	tiny shell
" "	anything within double quotes is unchanged except \ and \$
' '	anything within single quote is unchanged
python	"object-oriented programming language"
bash	GNU bourne-again SHell
ksh	korn shell
php	general-purpose scripting language
csh, tcsh	C shell
perl	Practical Extraction and Report Language
source [file]	load any functions file into the current shell, requires the file to be executable

## Memory & Processes

free -m	display free and used system memory
killall	stop all process by name
sensors	CPU temperature
top	display current processes, real time monitoring
kill -1 -9	send signal to process
service [start stop restart]	manage or run sysV init script
ps aux	display current processes, snapshot
dmesg -k	display system messages

## Disk Utilities

df -h, -i	File system usage
mkfs -t -V	create file system
resize2fs	update a filesystem, after lvextend*
fsck -A -N	file system check & repair
pvcreate	create physical volume
mount -a -t	mount a filesystem
fdisk -l	edit disk partition
lvcreate	create a logical volume
umount -f -v	umount a filesystem

## Misc Commands

pwd -P	print current working directory
bc	high precision calculator
expr	evaluate expression
cal	print calendar
export	assign or remove environment variable
` [command]	backquote, execute command
date -d	print formatted date
\$(variable)	if set, access the variable

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