Linux Command Cheat Sheet

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
uuencode, uudecode	**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 calender
export	**assign or remove environment variable**
` [command]	backquote, execute command
date -d	**print formatted date**
$[variable]	if set, access the variable