

Linux Command Cheat Sheet

Basic commands

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

File permission

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

Network

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

File management

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

File compression

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

File Editor

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

Directory Utilities

mkdir	create a directory
rmdir	remove a directory

File Utilities

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

Scripting

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

Memory & Processes

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

Disk Utilities

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

Misc Commands

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