Linux Cheat Sheet

by zebrahead via cheatography.com/35093/cs/11017/

File commands

ls	Directory listing
ls -al	Formatted listing with hidden files
ls -F	list files in current directory and indicate the file tyoe
ls -laC	list all files in current directory in long format and display in columns
cd dir	Change directory to dir
pwd	Show current directory
mkdir dir	Create a directory dir
rm file	Delete file
rm -r dir	Delecte directory dir
rm -f file	Force remove file
rm -rf dir	For remove directory dir
cp file1 file2	Copy file 1 to file2
cp -r dir1 dir2	Copy dir1 to dir2
cp file path	copy the file to the dir
mv file1 file2	Rename or move file to file2.
ln -s file link	Create symbolic link link to file
touch file	Create or update file
cat > file	Place standard input into file
more file	Output the contents of file
head file	Output the first 10 kines of file

File commands (cont)

tail file	output the last 10 lines of file
tail -f file	Output the contents of file as it grows, starting with the last 10 lines

File Permissions

chmod octal file	4 - read(r) 2 - write(w) 1 - execute(x)

For more options, see man chmod.

Seacrching

grep pattern files	search for pattern in files
grep -r pattern dir	search recursively for pattern in dir
command | grep pattern	search for pattern in the output of command
locate file	find all instances of file

Process Managment

ps	display all currently active processes
top	display all runing processes
kill pid	kill process id pid
killall proc	kill all processes named proc *
bg	lists stopped or background jobs; resume a stopped job in the background
fg	brings the most recent job to the foreground
fg a	brings job a to the foreground

System Info

date	show the current date and time
cal	show this month's calendar
uptime	show current uptime
w	display who is online
whoami	who you are logged in as
finger user	display information about user
uname -a	show kernel information
cat/proc/-cpuinfo	cpu information
cat/proc/-meminfo	memory information
man command	show the manual for command
df	show disk usage
du	show direcory space usage
free	show memmory and swap usage
whereis app	show possible locations of app
which app	show which app will be run by default

Compression

tar cf file.tar files	create a tar named file.tar containing files
tar xf file.tar	extract the file from file.tar
tar czf file.tar.gz files	create a tar with Gzip compression
tar xzf file.tar.gz	extract a tar using Gzip
tar cjf file.tar.bz2	create a tar with Bzip2 compression

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Published 27th February, 2017.
Last updated 27th February, 2017.

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Compression (cont)

tar xjf file.tar.bz2	extract a tar using Bzip2
gzip file	compresses file and renames it to file.gz
gzip -d file.gz	decompresses file.gz back to file

tag flags:
c - create archive
j - bzip2 compression
t - table of contents
k - do not overwrite
x - extract
T - files from file
f - specifies filename
w - ask for confirmation
z - use zip/gzip v - verbose

SSH

ssh user@host	connect to host as user
ssh -p port user@host	connect to host on port port as uset
ssh-copy-id user@host	add your key to host for user to enable a keyed or passwordless login

Network

ping host	ping host and outpt result
shois domain	get whois information for domain
dig domain	get DNS information for domain
dig -x host	reverse lookup host
wget file	download file
wget -c file	continue a stopped download

Starting & Stopping

sd -h no	shutdown system now and do not reboot
halt	stop all processes - same as above
shutdown -r 5	shutdown the system in 5 minutes and reboot
shutdown -r now	shutdown the system now and reboot
rebot	stop all processes and then reboot
startx	start the x system

Shortcuts

Ctrl+C	halts the current command
Ctrl+Z	stops the current command, resume with fg in the foreground or bg in the background
Ctrl+D	log put of current session, similar to exit
Ctrl+W	erases one word in the current lint
Ctrl+U	erases he whole line
Ctrl+R	type to bring up a recent command
!!	repats the last command
exit	log ot of current session

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