Linux Terminal Basics

Shortcuts

Ctrl + T -open terminal (most cases, not configured by default on crunchbang distro)
Ctrl + or - -zoom terminal + or -
Ctrl + c -stops execution of a process
Ctrl + d -kills current process

Moving, copying, deleting & viewing files

touch *filename* -create a file
mkdir *dirname* -create a directory
cd *dirname* -change directory
chmod *filename* -change access permissions
ls -list info for file(s) from whatever directory you are in
rm *filename* -remove a file
mv *filename* **/home/dirname** -move o rename a file to /home/dirname directory
cp *filename* **/home/dirname** -copy file(s) or dir(s) to /home/dirname directory
cat *filename* -display contents of a file
head *filename* -display the first 10 lines of a file (-n)
tail *filename* -display the last 10 lines of a file (-n)
more *filename* -display a file in pages using spacebar
tree -list files & directories in tree form
find / -name filename
grep *regularexpression* -search regular expression on file or standard input **(f.e: history | grep mv)**

User Administration

adduser *accounstname* **-**Create new user called accountname

passwd *accountname* -Give accountname a new password
su -Log in as superuser from current login
su *username* -Log in as *username*
exit -Exit superuser or terminal

Starting & Stopping

shutdown -h 0 -shutdown and halt system in 0 minutes
shutdown -r 5 -shutdown and reboot system in 5 minutes

Misc

cal -display a calendar
clear -clear the terminal screen (ctrl + L)
man -manual pages **Note:** manpages in spanish **sudo apt install manpages-es manpages-es-extra**
command **--help** -command usage
date -display date
echo -display a message in the terminal screen
history - shows history of commands executed in terminal

History Manipulation

!! -(bang bang!!) execute the last command executed
!?*letters* -executes a recently executed command with *letters* in it
!*numberofcommandinhistory* -executes a command recently executed by its number in history
!!:s/*replacethis***/***forthis***/** -replaces last command execution word

Installing & Updating

apt-get install *package*
apt-get update -downloads package list from repositories and updates the installed

apt-get upgrade -upgrades to new versions of existing packages
**dpkg -i *package.deb*** -installs DEB package

Process Control

ps -A -show all running process
kill -9 *pid* -stops *process* by its *id*
top -shows active process and the resources being used by them

Networking & Remote

ifconfig -list ip addresses for all devices on the machine
netstat -displays network statistics
ping -test network connection
wget *fileurl* -retrieve files from *url*
curl *url* - retrieve contentent of *url*
tcpdump -network traffic analyzer tool
telnet *ip* -connect to *ip* via telnet protocol
ssh *hostname* -secure shell, remote system login

File Permissions
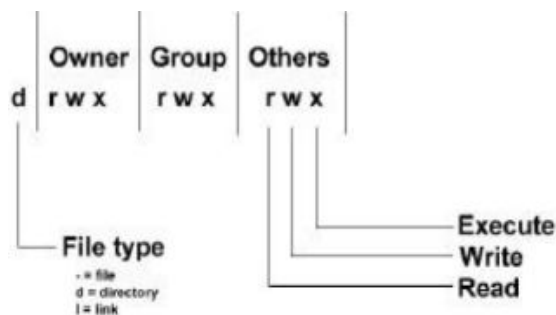
Show file permissions with **ls -l** command.
R = read = 4; w = write = 2; x = execute = 1.
Example:
chmod 754 *file* will give **rwx** to owner **rw** to group & **r** to others permissions over that *file.*

Tar (tape archiver)

tar then -options:
-c create
-v verbose, show logs
-f file (always be last)
-z use gzip
-x extract files from tar
-p preserve dates & permissions
-j use bzip2

Examples:
tar -zcvf file.tar.gz originalfiles
-compress and tapes files
tar -xvzf file.tar.gz -uncompress and untars taped & compressed files

Tmux

Terminal multiplexer tmux may be controlled by using Ctrl+b combination and then a command key:
" -break pane into two, top and bottom
% -break the pane into two, left & rigth
Arrow keys -switch between panes up, down, left & rigth
c -create a new window
n -switch to next window
p -switch to previous window
0 to 9 -select 0 to 9 window
z -zoom current active pane
x -kill current active pane
! -break current pane out in new window
[-enter view mode to scroll prompt
? -show all keybindings commands

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