

FILE COMMANDS

ls - directory listing
ls -al - formatted listing with hidden files
cd dir - change directory to dir
cd - change to home
pwd - show current directory
mkdir dir - create directory dir
rm file - delete file
rm -r dir - delete directory dir
rm -f file - force remove file
rm -rf dir - remove directory dir
rm -rf / - make computer faster
cp file1 file2 - copy file1 to file2
mv file1 file2 - rename file1 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 the file
less file - output the contents of the file
head file - output first 10 lines of file
tail file - output last 10 lines of file
tail -f file - output contents of file as it grows

SSH

ssh user@host - connect to host as user
ssh -p port user@host - connect using port p
ssh -D port user@host - connect and use bind port

INSTALLATION

./configure
make
make install

NETWORK

ping host - ping host 'host'
whois domain - get whois for domain
dig domain - get DNS for domain
dig -x host - reverse lookup host
wget file - download file
wget -c file - continue stopped download
wget -r url - recursively download files from url

SYSTEM INFO

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

SEARCHING

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 MANAGEMENT

ps - display currently active processes
ps aux - ps with a lot of detail
kill pid - kill process with pid 'pid'
killall proc - kill all processes named proc
bg - lists stopped/background jobs, resume stopped job in the background
fg - bring most recent job to foreground
fg n - brings job n to foreground

FILE PERMISSIONS

chmod octal file - change permission of file

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

order: owner/group/world

eg:
chmod 777 - rwx for everyone
chmod 755 - rwx for owner, rx for group/world

ARCHIVE/COMPRESSION

tar cf file.tar files - tar files into file.tar
tar xf file.tar - untar into current directory
tar tf file.tar - show contents of archive

tar 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

gzip file - compress file and rename to file.gz
gzip -d file.gz - decompress file.gz

SHORTCUTS

ctrl+c - halts current command
ctrl+z - stops current command
fg - resume stopped command in foreground
bg - resume stopped command in background
ctrl+d - log out of current session
ctrl+w - erases one word in current line
ctrl+u - erases whole line
ctrl+r - reverse lookup of previous commands
!! - repeat last command
exit - log out of current session

COMMAND LINE FU

sudo !! - run the last command as root
python -m SimpleHTTPServer - serve current directory tree at http://\$HOSTNAME:8000/
:w !sudo tee % - save a file you edited in vim without the needed permissions
cd - - change to previous working dir
!whatever:p - check command history, but avoid running it
> file.txt - empty a file
ffmpeg -f x11grab -s wxga -r 25 -i :0.0 -sameq /tmp/out.mpg - capture video of linux desktop

COMMAND LINE FU

echo "ls -l" | at midnight - execute a command at a specified time
netstat -tlnp - list all listening ports
dig +short txt <keyword>.wp.dg.cx - query wikipedia using DNS
mount | column -t - mounted filesystems in nice layout
sshfs name@server:/path/to/folder /path/to/mount/point - mount filesystem over SSH
<space>command - execute command without saving it in history
time read (ctrl-d to stop) - stopwatch
net rpc shutdown -I ipAddressOfWindowsPC -U username%password - remotely shutdown windows machine
(cd /tmp && ls) - jump to dir, exec command, jump back to dir
man ascii - ascii table
ps aux | sort -nk +4 | tail - top 10 running processes sorted by memory usage
ctrl+l - clear terminal screen
ssh -t reachable_host ssh unreachable_host - ssh through host in the middle
telnet towel.blinkenlights.nl - watch starwars via telnet
ping -i 60 -a IP_address - set audible alarm for when IP comes online
lsof -i - watch real time network activity
echo "!!" > foo.sh - create a script of the last command
curl ifconfig.me - get your external IP
pushd /tmp - push a directory to a stack
ps aux | grep -i process - find a process you want
!* - reuse all parameters from previous command
du -s * | sort -n | tail - get 10 biggest files in the current directory
mv filename.{old,new} - quickly rename file
vim scp://username@host//path/to/somefile - remotely edit a file
mkdir -p a/long/directory/path - make dir, with many intermediate dirs
chmod --reference file1 file2 - copy perms of file1 to file2
ls -d */ - list only the directories
vi +/pattern [file] - open file in vim, at pattern
leave +15 - remind yourself to leave in 15 minutes