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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 a directory dir
rm file - delete file
rm -r dir - delete directory dir
rm -f file - force remove file
rm -rf dir - force remove directory dir *
cp file1 file2 - copy file1 to file2
cp -r dir1 dir2 - copy dir1 to dir2; create dir2 if it
doesn't exist
mv file1 file2 - rename or move file1 to file2
if file2 is an existing directory, moves file1 into
directory file2
In -s file link - create symbolic link link to file
touch file – create or update file
cat > file - places standard input into file
more file - output the contents of file
head file - output the first 10 lines of file
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
            Process Management
ps - display your currently active processes
top - display all running 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 foreground
fg n - brings job n to the foreground
             File Permissions
chmod octal file - change the permissions of file
to octal, which can be found separately for user,
group, and world by adding:
       4 - read (r)
       2 - write (w)
      1 - execute (x)
Examples:
chmod 777 - read, write, execute for all
chmod 755 - rwx for owner, rx for group and world
For more options, see man chmod.
ssh user@host - connect to host as user
ssh -p port user@host - connect to host on port
port as user
ssh-copy-id user@host - add your key to host for
user to enable a keyed or passwordless login
                    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
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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 directory space usage free - show memory 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 files 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 tar xjf file.tar.bz2 - extract a tar using Bzip2

System Info

finger user - display information about user

date - show the current date and time

cal - show this month's calendar uptime - show current uptime

whoami - who you are logged in as

w - display who is online

whois domain - get whois information for domain dig domain - get DNS information for domain dig -x host - reverse lookup host

ping host - ping host and output results

file.gz

file

wget file - download file wget -c file - continue a stopped download

Installation

gzip file - compresses file and renames it to

qzip -d file.qz - decompresses file.qz back to

Network

Ctrl+W - erases one word in the current line

Ctrl+R - type to bring up a recent command

make install dpkg -i pkg.deb - install a package (Debian)

Install from source:

./configure

make

rpm -Uvh pkg.rpm - install a package (RPM)

Shortcuts Ctrl+C - halts the current command

Ctrl+U - erases the whole line

!! - repeats the last command exit - log out of current session

fg in the foreground or bg in the background

Ctrl+D - log out of current session, similar to exit

Ctrl+Z - stops the current command, resume with

* use with extreme caution.