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Unix/Linux Command Reference

File commands

Directory listing Formatted listing with hidden files Is -al

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 fire For remove directory dir rm -rf dir cp file1 file2 Copy file1 to file2

cp-r dir1 dir2 Copy dir1 to dir2; create dir2 if it doesn't exit mv file1 file2 Rename or move file1 to file2. If filed 2 is an existing directory, moves file1 into directory file2

Create symbolic link link to file In -s file link touch file Create or update file

cat > file Places standard input into file more file Output the contents of file head file Output the firest 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

display all currently active processes

display all running processes top kill pid kill process id pid

kill all processes named proc * killall proc

lists stopped or background jobs; resume a bg

stopped job in the background

Brings the most recent job to the foreground fg a

brings job a 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

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

Searching

grep pattern files grep -r pattern dir locate file

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

System Info

date cal uptime whoami finger user uname -a cat /proc /cpuinfo cat /proc /meminfo man command

df du free whereis app

which app

show this month's calendar show current uptime display who is online who you are logged in as display information about user show kernel information cpu information memory information show the manual for command show disk usage

show the current date and time

show directory space usage show memory and swap usage show possible locations of app

show which app will be run by default

Compression

tar cf file.tar files tar xf file.tar tar czf file.tar.gz files tar xzf file.tar.gz tar cjf file.tar.bz2 tar xjf file.tar.bz2 gzip file gzip -d file.gz

create a tar named file.tar containing files extract the files from file.tar create a tar with Gzip compression extract a tar using Gzip create a tar with Bzip2 compression extract a tar using Bzip2 compresses file and renames it to file.gz decompresses file.gz back to file

Network

ping host whois domain dig domain dig -x host wget file wget -c file

ping host and output results get whois information for domain get DNS information for domain reverse lookup host download file continue a stopped download

Installation

Install from source:

./configure make make install dpkg -i pkg.deb rpm -Uvh pkg.rpm

!!

install a package (Debian) install a package (RPM)

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 out of current session, similar to exit

Ctrl+W erases one word in the current line

erases the whole line Ctrl+U

type to bring up a recent command Ctrl+R

repeats the last command log out of current session exit use with extreme caution