

Basic Linux Commands Cheat Sheet

by NexWebSites.com (NexWebSites) via cheatography.com/57483/cs/21297/

File Commands

Is - directory listing

Is -al - formatted listing with hidden files

cd [directory] - change directory to directory

pwd - Print Working Directory

mkdir [directory] – create a directory named directory

rm [file_name] - delete filename

rm -r [directory] - delete directory recursively

rm -f [file_name] - force remove file

rm -rf [directory] – force remove directory directory recursively * Use with care

cp [file1 file2] - copy file1 to file2

mv [file1 file2] – rename or move file1 to

In -s [file_name link] - create symbolic link to file

touch [file_name] – create or update file cat > [file_name] – places standard input into file

more [file_name] – output the contents of

head [file_name] – output the first 10 lines of file

tail [file_name] – output the last 10 lines of file

tail -f [file_name] – output the contents of file as it grows, starting with the last 10 lines

chmod *[octal file_name]* change the permissions of file to octal



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Compression

tar cf [file_name.tar files] – create a tar named file_name.tar containing files

tar xf [file_name.tar] – extract the files from file_name.tar

tar czf [file_name.tar.gz files] – create a tar file with Gzip compression

tar xzf [file_name.tar.gz] – extract a tar using Gzip

tar xjf [file_name.tar.bz2] – extract a tar using Bzip2

gzip [file_name] – compresses file and renames it to file_name.gz

gzip -d [file_name.gz] - decompresses file_name.gz back to file

System Information

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 directory space usage

free - show memory and swap usage

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System Information (cont)

whereis [application_name] – show possible locations of binary, source, and manual page files for a command

which [application_name] – show which application will be run by default

Searching

grep [pattern files] – search for pattern in files

grep -r [pattern directory] – search recursively for pattern in directory

[command] | grep [pattern] - search for pattern in the output of command

locate [file_name] - find all instances of file

Process Management

ps – (Process Status) displays your currently active processes

top – (Table of Processes) display all running processes

kill [pid] - kill process id pid

killall [process_name] – kill all processes named [process_name]

bg – lists stopped or background jobs; resume background job

fg – brings the most recent job to foreground

fg [n] – brings job id to the foreground

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Network

ping [host] – ping host and output results whois [domain] – get whois information for domain

dig [domain] – get DNS information for domain

dig -x [host] - reverse lookup host

wget [file at URL] - download file from URL

wget -c [file at URL] - continue a stopped download

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 login without password

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

Ctrl+W - erases one word in the current line

Ctrl+U - erases the whole line

Ctrl+R - type to bring up a recent command

!! - repeats the last command

exit - log out of current session



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