Cheatography

Basic Linux Commands Cheat Sheet

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

File Commands

ls – directory listing

ls -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 file2

ln -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 file

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

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

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 exit

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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