Basic Command Examples

Extract a field from a delimited file: cut -d <delim> -f <field_num>

Extract a range characters from a file cut -c <start>-<finish>

Find files that were modified today: find . -type f -mtime 0

Determine if a file is being used: lsof -V <filename>

Grep with line numbers and context: grep -nA <num_lines> <pattern> *

Show all ports in use: netstat -alp

Show port statistics: netstat -s

Character substitution: tr '<from>' '<to>'

Delete characters: tr '<char>' -d

Show processes as a tree:

pstree -ap | grep -C <lines> <proc>

Get the current time as a unix timestamp:
date +%s

Get the current time in ISO format: date +%F\ %T

Execute cmd with watch and mark changes: watch -d '<cmd>'

Merge two files together (columns): paste <file1> <file2>

Execute a command as a different user:
su -c <cmd>

Sed Examples

Basic substitution:

sed -e 's/<old>/<new>/g' <input>
> <output>

Delete lines: sed -e '/<pattern>/d' <input>

Multiple substitutions: sed -e
 's/<old>/<new>/g;s/<old2>/<new2>/g'
 <input>

Modify a file in-place: sed -i 's/<old>/<new>/g' <input>

tr Classes

alnum Alphanumeric Characters

alpha Alphabetic Characters

blank Whitespace Characters

cntrl Control Characters

digit Numeric Characters

graph Graphic Characters

lower Lower-Case Alphabetic Characters

print Printable Characters

punct Punctuation Characters

space Space Characters

upper Upper-Case Alphabetic Characters

xdigit Hexadecimal Characters

Basic FTP Commands

ascii Set the transfer type to ascii.

bell Sound an alarm when transfer is finished.

binary Set the transfer type to binary.

cd <directory> Change remote directory.

exit Exit the FTP client.

get Download a file from the server.

1cd Change local directory.

put Upload a file to the server.

tick Display the number of bytes transferred.

Bash Tricks

One-line for loop:

for file in *; do <cmd>; done

Use the output of one command in another: echo 'foo' > 'date +%s'.txt

Same, but using pipes:

diff <(find /dir1) <(find /dir2)
tar cvf >(gzip -c > dir.tgz) dir

Fix a mistake in the previous command: ^old^new

Use the last arg. from the last command: rm !\$

Repeat command for every item in braces: touch {1..10}.txt; rm foo.{obj,bin,bar}; cp <file>{,.bak}

Start/end of line: Ctrl-A ; Ctrl-E

Follow the execution of your shell script: #!/bin/bash -x

Time multiple commands: time sh -c '<commands'

Vim Specific Tips

Open a remote file using vim and ssh: vim scp://user@host//path/to/file

Open many files that match a pattern: args **/*.java

Modify the contents of the matched files: argdo <command> | w

Modify the contents of the opened buffers: bufdo <command> | w

Autocomplete Word: Ctrl-n Ctrl-p

Indent/Outdent (Insert Mode):

Ctrl-t, Ctrl-d

Paste to command line: Ctrl-r <reg>

Replace with regsiter: :s/string/\=@<reg>/

Redirection/Processes

Create a named pipe: mkfifo <name>

Process Substitution (Ex):

diff <(cat foo.txt) <(cat bar.txt)</pre>

Use piping in find + exec:

find . -exec sh -c
'grep "\$1" > "\$1.out"' -- {} \;

Use piping with xargs:

<cmd> | xargs -I {} sh -c
'grep "\$1" > "\$1.out"' -- {} \;

SSH Tips

Copy IDs:

ssh-copy-id -i <pub_key> user@host

File/Dir/Disk Tips

Find largest files/dirs:

du -hsx * | sort -rh | head -10

Same, using find:

find <dir> -print '%s %p\n'
| sort -nr | head -10