Bash tools

Awk

First and third column from file, seperated by spaces
`awk -F " " '{print $1,$3'} result.txt`

Print from line 156 to line 170
`awk 'NR >= 156 && NR <= 170' log.txt`

Cat

Copy Data to Other File
`cat file1 > file2`

Combine Files And Sort Alphabetically
`cat file1 file2 | sort > file3`

Create new file that consists of the contents of file1, followed by keyboard.
`cat file1 -> file2`

Multi line to singe line
`cat multiline.txt | tr -d '\n' > oneline.txt`

Cut

First and third column from file, seperated by spaces
`cut -d' ' -f1,3 result.txt`

Find

Search for a file
`find location -name test.zip`
`find / -name phppgadmin.conf`

Search filetype
`find / -i name "*.txt"`

Accessed less than 3m ago
`find / -amin -3`

Accessed two days ago
`find / -time -2`

Smaller than 5MB, bigger than 2MB
`find / -size -5M -and -size +2M`

Remove all .DS_Store files
`find . -name '*.DS_Store' -type f -delete`

Find files older than 7 days

```
find <dir> -type f -mtime +7
```

Mtime

+*n* More than *n*.
n Exactly *n*.
-*n* Less than *n*.

```
You can write -mtime 6 or -mtime -6 or -mtime +6:
Using 6 without sign means "equal to 6 days old — so modified between 'now - 6 * 86400' and
'now - 7 * 86400'" (because fractional days are discarded).
Using -6 means "less than 6 days old — so modified on or after 'now - 6 * 86400'".
Using +6 means "more than 6 days old — so modified on or before 'now - 7 * 86400'" (where the
7 is a little unexpected, perhaps).
```

Grep

Flag	Description
-i	Ignore Case
-l	Print name of each file which contains a match
-v	Return all lines which don't match the pattern
-c	Print a count of matching lines
-n	Print the line nr before each line that matches

List all files in directory where file name contains "test"
`ls | grep "test"`
`grep "" -l "test"`

To search for a line containing text hello.gif in any .txt files
`grep "hello\.gif" *.txt`

Exactly and solely "apple"
`grep -x "apple" list.txt`

Everything else but not "apple"
`grep -v "apple" fruitlist.txt`

Match insensitive
`grep -i "fruit" fruitlist.txt`

Match apple and Apple
`grep "[Aa]pple" fruitlist.txt`

Grep Terminal History
`history | grep "ionic"`

Output non duplicates
`grep -vFf file1 file2`

iPerf3

```
# on receiver
iperf3 -s -p 7575
# on client
iperf3 -c <receiver-ip> -p 7575
```

Links

Create symbolic link
`ln -s /source /destination`

Remove link
`unlink /destination/script.sh`

Netcat

Scan ports
`nc -vvvnz -w5 185.31.92.195 5577 5500`

Netstat

`sudo netstat -lntp`
l - listening ports
n - no hostnames
t - tcp
p - processes

SSH

ssh-key to machines
`ssh-copy-id <ip-or-hostname>`

Tar

Archive a directory / File
`tar -zcvf archive.tar.gz test/`

Unarchive

```
tar -zxvf archive.tar.gz
tar -zxvf archive.tar.gz -C <output-dir>
tar xopf thing.tar
```

TCP

`tcpdump -n -v -i eth0 -s 0 port 80 -w /home/$USER/tcpdump.pcap`
-n don't convert addresses to names
-v verbose
-i interface eth0
-s snapshot length

Users

Remove user from group

`passwd -d <username>`

Reload bash user
`. ~/.bash_profile`

Display all users or groups
`compgen -u`
`compgen -g`

Add user to sudoers
`sudo usermod -aG sudo qrl`

Zip

Compress a directory / File
`zip -r <test.zip> <folder/file>`

Decompress
`unzip <test.zip> -d <destination_folder>`

Wget

Save website

```
wget --mirror --convert-links --adjust-extension --page-requisites --reject-regex "report" --no-warc-compression --warc-file="kalaralli" https://qrl.ee/kalaralli/
```

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