

# 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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