

# Bash / Shell

<command> &	start and background
<command> &&	start and wait for success
>	write to new file (file reset is first operation)
>>	append to existing file
	pipe output
diff	show differences

## Headline

tar -tvf	List with details
tar czf data.tar.gz <folder/files>	compress file
tar -cjf archive.tar.bz2 <folder/files>	compress with bzip2
tar -xzf data.tar.gz	decompress file
tar -rvf archive.tar newfile	append to file

## Terminal Shortcuts

CTRL

+a	Go to beginning of commandline
+e	Go to end of command line
+u	Delete to line begin
+k	Delete to line end
+c	kill current process
+z	put current process in background

## Background processes

jobs	list jobs
fg %#	move to foreground
bg	continue in background
kill %# or kill <pid>	kill process
kill -9 ..	terminate

## Filtering

grep	Find strings in files
sort	Sort file
sort   uniq, sort -u	Sort & remove duplicates
wc	word count
awk	don't ask
sed	replace characters in file

jq, jq .	filter json
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## Search

## Others

echo 'ABC='   base64 -d	decode base64
md5sum <file>, sha256sum <file>	create checksum
visidata	search tabular/log files

## Visidata

## Log analysis

```
<source bash> sudo awk '{print $1 " "$2 " "$3, $4, $5, substr($0, index($0,$6))}' /var/log/auth.log | jq  
-R -c 'split(" ") | {timestamp: (. [0]+ " "+. [1]+ " "+. [2]), hostname: . [3], process: . [4], message: . [5:] |  
join(" ")}' > auth.json </source>
```