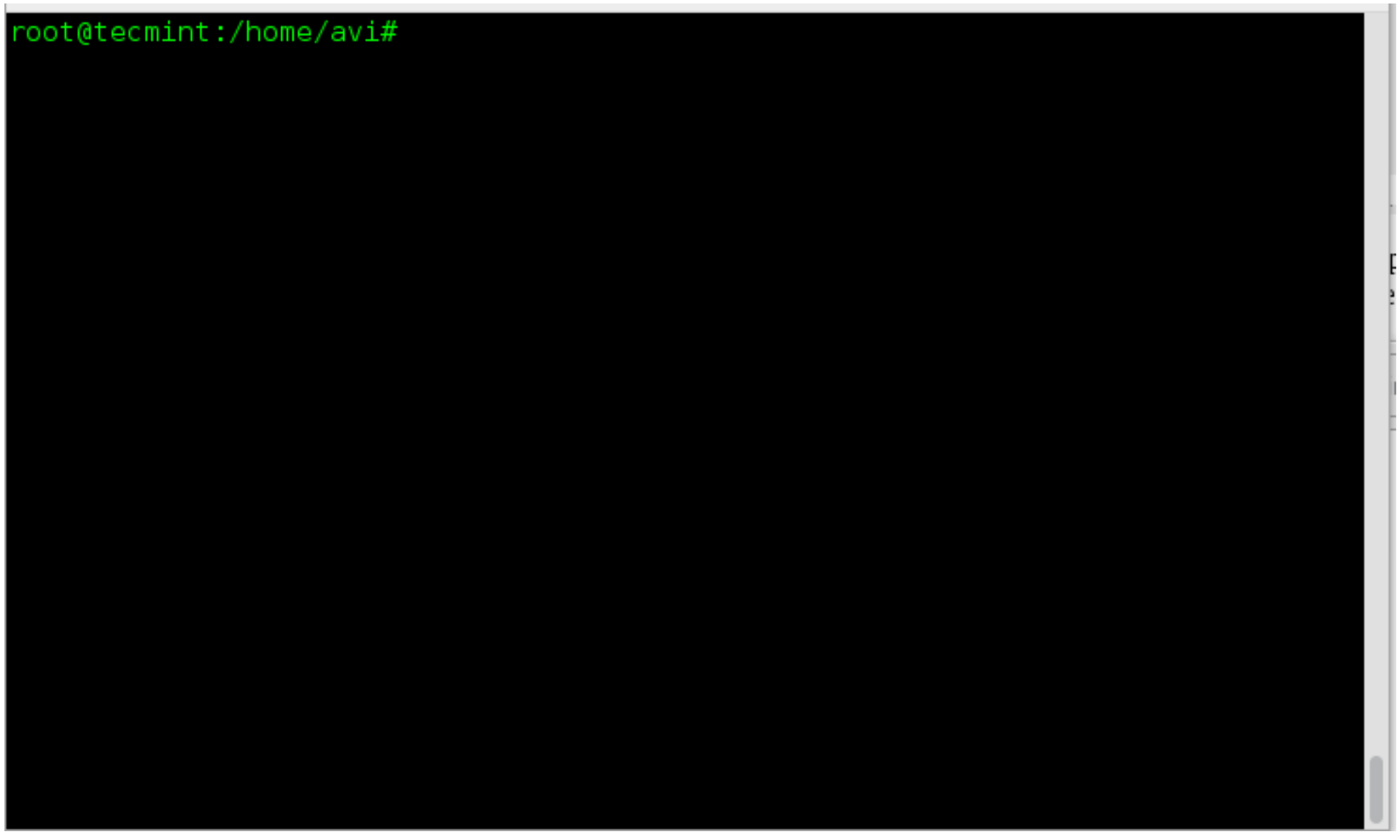
Running commands on a single machine

- history



Running commands on a single machine

- &

```
cppcheck.sh &
churn.sh &
run.sh &

wait
echo "All 3 complete"
```

```
#!/bin/bash
for i in $(seq 1 1000)
do
   ( Generating random numbers here , sorting  and outputting to file$i.txt ) &
   if (( $i % 10 == 0 )); then wait; fi # Limit to 10 concurrent subshells.
done
wait
```

Running commands on a single machine

- ps, top

OK, let's list all the processes on the box not being run by you!

```
ps aux | grep -v `whoami`
```

Or, to be a little more clever, why not just list the top ten time-wasters:

```
ps aux  --sort=-%cpu | grep -m 11 -v `whoami`
```

Running commands on a single machine

- Crontab: crontab -e

Execute on workdays 1AM

So if we want to schedule the script to Monday till Friday at 1 AM, we would need the following cronjob:

```
0 1 * * 1-5 /bin/execute/this/script.sh
```

Get it? The script is now being executed when the system clock hits:

- minute: `0`
- of hour: `1`
- of day of month: `*` (every day of month)
- of month: `*` (every month)
- and weekday: `1-5` (=Monday til Friday)

Running commands on a single machine

- xargs

```
# ls *.jpg | xargs -n1 -i cp {} /external-hard-drive/directory
```

Search all jpg images in the system and archive it.

```
# find / -name *.jpg -type f -print | xargs tar -cvzf images.tar.gz
```

Download all the URLs mentioned in the url-list.txt file

```
# cat url-list.txt | xargs wget -c
```