LAB 4

- **STEP-1**: Create script to list all files in /var/log every 5 seconds and append the list to /tmp/list.log file

<u>Commands</u>

- ➢ touch script.sh
- ➢ vi script.sh

```bash
#! /bin/bash
j=0
while [ $j -lt 12 ]; do
  ls /var/log >> /tmp/list.log &
  sleep 5
  j=$((j+1))

done
```

- ➢ cd /tmp
- ➢ touch list.log
- ➢ bash script.sh

---

hager@hager-VirtualBox: ~

```
hager@hager-VirtualBox:~$ touch script.sh
hager@hager-VirtualBox:~$ vi script.sh
```

hager@hager-VirtualBox: /tmp

```
hager@hager-VirtualBox:~$ cd /tmp
hager@hager-VirtualBox:/tmp$ touch list.log
hager@hager-VirtualBox:/tmp$
```

script.sh ×	list.log ×

```
alternatives.log
apache2
apport.log
apport.log.1
apt
auth.log
auth.log.1
bootstrap.log
btmp
cups
dist-upgrade
dmesg
dpkg.log
faillog
fontconfig.log
fsck
gpu-manager.log
hp
installer
kern.log
kern.log.1
lastlog
lightdm
speech-dispatcher
syslog
syslog.1
unattended-upgrades
upstart
```

- **STEP-2**: Copy the script to /usr/local/bin directory and set the execution attribute to it

<u>Commands</u>

- ➢ Sudo cp script.sh /usr/local/bin
- ➢ Sudo cat /usr/local/bin/script.sh
- ➢ Cd /usr/local/bin
- ➢ Sudo chmod +x script.sh
- ➢ ./script.sh

```
hager@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ sudo cp script.sh /usr/local/bin
[sudo] password for hager:
hager@hager-VirtualBox:~$
```

```
hager@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ sudo cat /usr/local/bin/script.sh
#! /bin/bash
j=0
while [ $j -lt 12 ]; do
  ls /var/log >> /tmp/list.log &
  sleep 5
  j=$((j+1))

done
hager@hager-VirtualBox:~$
```

```
hager@hager-VirtualBox: /usr/local/bin
hager@hager-VirtualBox:~$ cd /usr/local/bin
hager@hager-VirtualBox:/usr/local/bin$ sudo chmod +x script.sh
hager@hager-VirtualBox:/usr/local/bin$ ./script.sh
```

- **STEP-3**: Create systemd service file to execute the the script as background service

---

<u>Commands</u>

➢ Sudo apt install vim
➢ touch lab.service
➢ sudo vim lab.service
➢ sudo systemctl daemon.reload
➢ sudo service lab start
➢ sudo service lab status

```
hager@hager-VirtualBox: ~

hager@hager-VirtualBox:~$ sudo apt install vim
Reading package lists... Done
```

```
hager@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ touch lab.service
hager@hager-VirtualBox:~$ sudo vim lab.service
hager@hager-VirtualBox:~$ sudo systemctl daemon-reload
```

```
hager@hager-VirtualBox:/etc/systemd/system$ sudo service lab start
hager@hager-VirtualBox:/etc/systemd/system$ sudo service lab status
● lab.service
   Loaded: loaded (/etc/systemd/system/lab.service; static; vendor preset: enabl
   Active: active (running) since ﺝ 2023-02-22 15:10:03 EET; 10s ago
 Main PID: 3663 (script.sh)
   CGroup: /system.slice/lab.service
           ├─3663 /bin/bash /usr/local/bin/script.sh
           └─3670 sleep 5

فبر 22 15:10:03 hager-VirtualBox systemd[1]: [/etc/systemd/system/lab.service:1]
فبر 22 15:10:03 hager-VirtualBox systemd[1]: [/etc/systemd/system/lab.service:9]
فبر 22 15:10:03 hager-VirtualBox systemd[1]: [/etc/systemd/system/lab.service:12
فبر 22 15:10:03 hager-VirtualBox systemd[1]: Started lab.service.
lines 1-12/12 (END)
```

- **STEP-4**: Using cron, schedule a job every 5 minutes to copy /tmp/list.log file to /tmp/list.log.1 and compress the file using zip command

Commands

- ➢ Sudo apt-get update
- ➢ Sudo apt-get install cron
- ➢ Crontab -e

```
*/5 * * * * zip -r /tmp/list.log.1.zip /tmp/list.log
```