Lab4 Objectives:

- 1. create script to list all files in /var/log every 5 seconds and append the list to /tmp/list.log file
 - command:
 - > touch script.sh
 - > nano script.sh
 - bash script.sh
 - screen shot:

mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4\$ touch script.sh mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4\$ nano script.sh

```
mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4$ cat script.sh
#!/bin/bash
while true; do
   ls /var/log >> /tmp/list.log
   sleep 5;
done
```

```
mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4$ bash script.sh

mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4$ bash script.sh

apport.log.1
apport.log.1
apport.log.2.gz
apt
auth.log.
auth.log.2.gz
boot.log.1
boot.log.3
boot.log.3
boot.log.3
boot.log.5
boot.log.7
bootstrap.log
btmp
cups
dist-upgrade
dmesg
dmesg.0
dmesg.1.gz
dmesg.2.gz
dmesg.3.gz
dmesg.3.gz
dmesg.3.gz
dmesg.4.gz
dpkg.log
failog
failo
```

- 2. copy the script to /usr/local/bin directory and set the execution attribute to it
 - commands:
 - sudo cp script.sh /usr/local/bin
 - cd /usr/local/bin
 - sudo chmod +x script.sh
 - sudo cat script.sh
 - ./script.sh
 - screen shot:

```
mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4$ sudo cp script.sh /usr/local/b
[sudo] password for mariam:
mariam@mariam-VirtualBox:~/Documents/sys-admin-labs/lab4$ cd /usr/local/bin
mariam@mariam-VirtualBox:/usr/local/bin$ ls
script.sh
mariam@mariam-VirtualBox:/usr/local/bin$ sudo chmod +x script.sh
mariam@mariam-VirtualBox:/usr/local/bin$ sudo cat script.sh
#!/bin/bash
while true; do
    ls /var/log >> /tmp/list.log
    sleep 5;
done
mariam@mariam-VirtualBox:/usr/local/bin$ ./script.sh
```

- 3. <u>create systemd service file to execute the the script as background service</u>
 - commands:
 - sudo touch myBq_process.service
 - sudo vim myBg_process.service
 - > sudo systemctl daemon-reload
 - > sudo systemctl enable myBg_process.service
 - sudo systemctl is-enabled myBg_process.service
 - > sudo systemctl start myBg_process.service
 - > sudo systemctl status myBg_process.service
 - screen shot:

```
marlam@marlam-VirtualBox: $ sudo touch myBg_process.service
marlam@marlam-VirtualBox: $ sudo vym myBg_process.service
marlam@marlam-VirtualBox: $ sudo systemctl daemon-reload
marlam@marlam-VirtualBox: $ sudo systemctl enable myBg_process.service
Created symlink /etc/systemd/system/multi-user.target.wants/myBg_process.service → /etc/systemd/system/myBg_process.service
marlam@marlam-VirtualBox: $ sudo systemctl is-enabled myBg_process.service
enabled
marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service
marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service
marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service

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marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service

marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service

marlam@marlam-VirtualBox: $ sudo systemctl start myBg_process.service

loaded: loaded (/etc/systemd/system/myBg_process.service; enabled; vendor preset: enabled)

Active: active (running) since Sat 2023-02-25 02:17:07 EET; 24s ago

Main PID: 20635 (script.sh)

Tasks: 2 (limit: 9437)

Memory: 552.0K

CPU: 35ms

CGroup: /system.slice/myBg_process.service

| -20635 /bin/bash /usr/local/bin/script.sh

| -20645 sleep 5

02:17:07 25 wariam-VirtualBox systemd[1]: Started my backGround process.
```

- 4. <u>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</u>
 - commands:
 - crontab -e
 - screen shot:

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