## **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 myBq\_process.service
    - sudo systemctl start myBg\_process.service
    - sudo systemctl status myBg\_process.service
  - screen shot:

```
[Unit]
Description=Keeping my sources fresher than Arch Linux
After=multi-user.target

[Service]
ExecStart=/usr/bin/bash /usr/local/bin/script.sh
Type=simple

[Install]
WantedBy=multi-user.target
```

- 4. <u>using cron, schedule a job every 5 minutes to copy /tmp/list.log file to /tmp/list.log.1</u> and compress the file using zip command
  - commands:
    - crontab -e
  - screen shot:

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