• create script to list all files in /var/log every 5 seconds and append the list to /tmp/list.log file

1-touch script.sh

nano script.sh .sh

#! /bin/bash

while true

do

    ls /var/log >> /temp/list.log

    sleep 5

done

cd / temp

touch list.log

cd ~

bash script.sh

```
  GNU nano 6.2                                    list.log
alternatives.log
apache2
apt
auth.log
auth.log.1
auth.log.2.gz
auth.log.3.gz
boot.log
boot.log.1
boot.log.2
boot.log.3
boot.log.4
bootstrap.log
btmp
cups
dist-upgrade
dmesg
dmesg.0
dmesg.1.gz
dmesg.2.gz
dmesg.3.gz
dmesg.4.gz
dpkg.log
faillog
fontconfig.log
gdm3
gpu-manager.log
hp
```

- copy the script to /usr/local/bin directory and set the execution attribute to it

```
ahmed@ahmed-VirtualBox:/usr/local/bin$ sudo cp script.sh /usr/local/bin
cp: cannot stat 'script.sh': No such file or directory
ahmed@ahmed-VirtualBox:/usr/local/bin$ cd ~
ahmed@ahmed-VirtualBox:~$ nano script.sh
ahmed@ahmed-VirtualBox:~$ sudo cp script.sh /usr/local/bin
ahmed@ahmed-VirtualBox:~$ cd /usr/local/bin
ahmed@ahmed-VirtualBox:/usr/local/bin$ cat script.sh
#! /bin/bash
while true
do
        ls /var/log >>/tmp/list.log
        sleep 5
done
ahmed@ahmed-VirtualBox:/usr/local/bin$ sudo chmod +x script.sh
ahmed@ahmed-VirtualBox:/usr/local/bin$ bash script.sh
^C
```

- create systemd service file to execute the the script as background service

```
ahmed@ahmed-VirtualBox:~$ sudo cp myserv.service /etc/systemdahmed@ahmed-VirtualBox:~$ nano myserv
ahmed@ahmed-VirtualBox:~$ nano myserv.service
ahmed@ahmed-VirtualBox:~$ nano myserv.service
ahmed@ahmed-VirtualBox:~$ sudo systemct1 daemon-rel
sudo: systemct1: command not found
ahmed@ahmed-VirtualBox:~$ sudo systemctl daemon-rel
Unknown command verb daemon-rel.
ahmed@ahmed-VirtualBox:~$ cd /etc/systemd/system
ahmed@ahmed-VirtualBox:/etc/systemd/system$ sudo systemctl daemon-rel
Unknown command verb daemon-rel.
ahmed@ahmed-VirtualBox:/etc/systemd/system$ sudo systemctl daemon-rel
Unknown command verb daemon-rel.
ahmed@ahmed-VirtualBox:/etc/systemd/system$ sudo service myserv start
^[[A^[[A^[[Aahmed@ahmed-VirtualBox:/etc/systemd/system$ sudo service myserv status
myservrvice: unrecognized service
ahmed@ahmed-VirtualBox:/etc/systemd/system$ sudo service myserv status
● myserv.service - bgServ
     Loaded: loaded (/etc/systemd/system/myserv.service; disable>
     Active: active (running) since Mon 2023-02-27 21:44:36 EET;>
   Main PID: 4806 (bash)
      Tasks: 2 (limit: 4626)
     Memory: 568.0K
        CPU: 1.012s
     CGroup: /system.slice/myserv.service
             ├─4806 /bin/bash /usr/local/bin/script.sh
             └─5179 sleep 5

21:55:53 27 فبر ahmed-VirtualBox bash[5153]: /usr/local/bin/scri>
21:55:58 27 فبر ahmed-VirtualBox bash[5160]: /usr/local/bin/scri>
21:56:03 27 فبر ahmed-VirtualBox bash[5162]: /usr/local/bin/scri>
21:56:08 27 فبر ahmed-VirtualBox bash[5164]: /usr/local/bin/scri>
21:56:13 27 فبر ahmed-VirtualBox bash[5166]: /usr/local/bin/scri>
```

• 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

sudo apt-get install cron

crontab –e

*/5 * * * * cp -r /tmp/list.log /tmp/list.log.1; zip list.log.1.zip list.log.1