

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

```
vboxuser@ubuntu:~/lab4$ vi script.sh
```

```
1 #! bin/bash
2 x=0
3 while [ $x -lt 12 ]; do
4     ls /var/log >> /tmp/list.log &
5     sleep 5
6     x=$((x+1))
7 done
```

```
vboxuser@ubuntu:~/lab4$ bash script.sh
```

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

```
vboxuser@ubuntu:~/lab4$ sudo cp script.sh /usr/local/bin/script.sh
[sudo] password for vboxuser:
vboxuser@ubuntu:~/lab4$ cd /usr/local/bin
vboxuser@ubuntu:/usr/local/bin$ cat scripts
cat: scripts: No such file or directory
vboxuser@ubuntu:/usr/local/bin$ cat script.sh
#!/bin/bash
x=0
while [ $x -lt 12 ]; do
    ls /var/log >> /tmp/list.log &
    sleep 5
    x=$((x+1))
done
vboxuser@ubuntu:/usr/local/bin$
```

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

```
vboxuser@ubuntu: /etc/systemd/system
boxuser@ubuntu:~$ sudo cp bg_ser.service /etc/systemd/system/
[sudo] password for vboxuser:
boxuser@ubuntu:~$ cd /etc/systemd/system
boxuser@ubuntu:/etc/systemd/system$ cat bg_ser.service
[Unit]
Description: bgprocess
After=syslog.target.network.target

[Service]
Type=simple
User=root
ExecStart=/bin/bash /usr/local/bin/script.sh
Restart=on.abort

[Install]
WantedBy=multi-user.target
boxuser@ubuntu:/etc/systemd/system$ sudo systemctl daemon-reload
boxuser@ubuntu:/etc/systemd/system$ systemctl start bg_ser.service
boxuser@ubuntu:/etc/systemd/system$ systemctl status bg_ser.service
● bg_ser.service
   Loaded: loaded (/etc/systemd/system/bg_ser.service; disabled; vendor prese
   Active: active (running) since Sat 2023-02-25 01:17:16 EET; 4s ago
   Main PID: 11656 (bash)
     Tasks: 2 (limit: 2286)
    Memory: 504.0K
     CGroup: /system.slice/bg_ser.service
            └─11656 /bin/bash /usr/local/bin/script.sh
              11658 sleep 5

lines 1-9/9 (END)
```

### 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

```
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow  command
*/5 * * * * zip -r /tmp/list.log.1.zip /tmp/list.log
```