

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

```
vboxuser@ubuntu:~$ sudo nano script.sh
[sudo] password for vboxuser:
vboxuser@ubuntu:~$ vi script.sh

[1]+  Stopped                  vi script.sh
vboxuser@ubuntu:~$ sudo chmod +x script.sh
vboxuser@ubuntu:~$ nano sudo ./script.sh
```

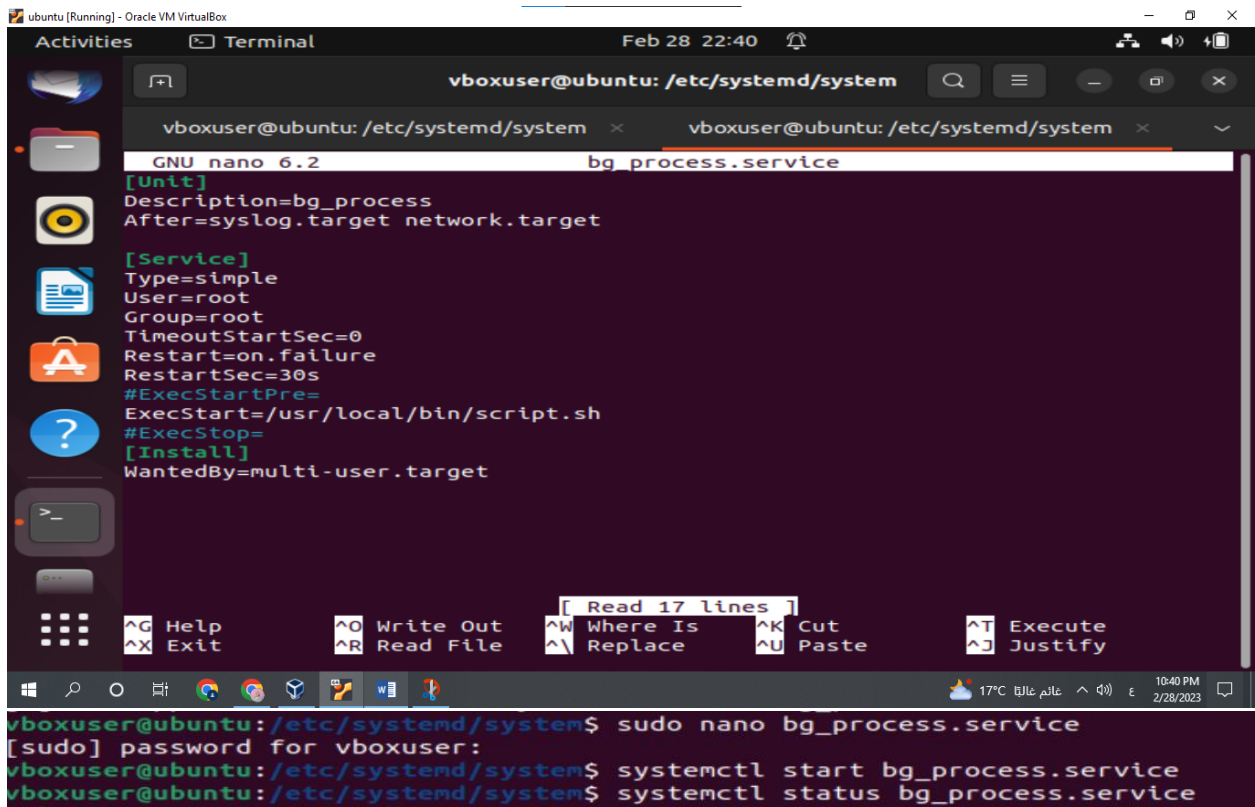
```
#!/bin/bash

while true; do
    ls /var/log >> /temp/list.log
    sleep 5;
done
```

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

```
vboxuser@ubuntu:~$ sudo cp script.sh /usr/local/bin/script.sh
vboxuser@ubuntu:~$ sudo chmod +x /usr/local/bin/script.sh
vboxuser@ubuntu:~$
vboxuser@ubuntu:~$
```

3.create systemd service file to execute the the script as background service



The screenshot shows a terminal window titled 'ubuntu [Running] - Oracle VM VirtualBox' with the date and time 'Feb 28 22:40'. The user 'vboxuser' is in the directory '/etc/systemd/system'. A nano editor window titled 'GNU nano 6.2 bg_process.service' is open, displaying the following configuration:

```
[Unit]
Description=bg_process
After=syslog.target network.target

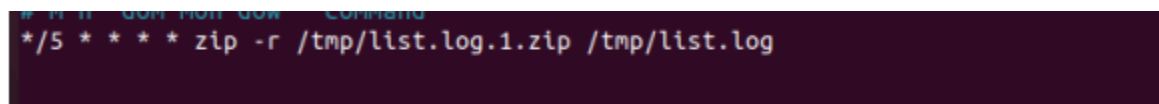
[Service]
Type=simple
User=root
Group=root
TimeoutStartSec=0
Restart=on.failure
RestartSec=30s
#ExecStartPre=
ExecStart=/usr/local/bin/script.sh
#ExecStop=
[Install]
WantedBy=multi-user.target
```

Below the nano editor, the terminal shows the following commands and output:

```
vboxuser@ubuntu:/etc/systemd/system$ sudo nano bg_process.service
[sudo] password for vboxuser:
vboxuser@ubuntu:/etc/systemd/system$ systemctl start bg_process.service
vboxuser@ubuntu:/etc/systemd/system$ systemctl status bg_process.service
```

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:

crontab -e



The screenshot shows a crontab file with the following entry:

```
# M T W T F S U Command
*/5 * * * * zip -r /tmp/list.log.1.zip /tmp/list.log
```