

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

```
weam@weam-VirtualBox:~/Desktop$ nano script.sh
weam@weam-VirtualBox:~/Desktop$ cat script.sh
#!/usr/bin/env bash
while true
do
ls/var/log >>/tmp/list.log
sleep 5
done
weam@weam-VirtualBox:~/Desktop$
```

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

```
weam@weam-VirtualBox:~/Desktop$ sudo chmod +x /usr/local/bin/script.sh
weam@weam-VirtualBox:~/Desktop$ cd /usr/local/bin
weam@weam-VirtualBox:/usr/local/bin$ cat script.sh
#!/usr/bin/env bash
while true
do
ls/var/log >>/tmp/list.log
sleep 5
done
```

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

```

weam@weam-VirtualBox:~/Desktop$ cat script.sh
#!/usr/bin/env bash
while true
do
ls /var/log >>/tmp/list.log
sleep 5
done
weam@weam-VirtualBox:~/Desktop$ bash script.sh
^C
weam@weam-VirtualBox:~/Desktop$ sudo chmod +x script.sh
[sudo] password for weam:
weam@weam-VirtualBox:~/Desktop$ nohup ./script.sh&
[1] 12616
weam@weam-VirtualBox:~/Desktop$ nohup: ignoring input and appending output to 'nohup.out'

weam@weam-VirtualBox:~/Desktop$ ps -ef | grep scri
weam      11877      1421  0 15:12 ?        00:00:00 bash ./script.sh
weam      11890      1421  0 15:12 ?        00:00:00 bash ./script.sh
weam      12018      1421  0 15:15 ?        00:00:00 bash ./script.sh
weam      12616     12471  0 15:21 pts/0    00:00:00 bash ./script.sh
weam      12666     12471  0 15:21 pts/0    00:00:00 grep --color=auto scri

```

```

weam@weam-VirtualBox:/lib/systemd/system$ sudo systemctl enable script.service
weam@weam-VirtualBox:/lib/systemd/system$ sudo systemctl start script.service
weam@weam-VirtualBox:/lib/systemd/system$ sudo systemctl status script.service
● script.service
   Loaded: loaded (/lib/systemd/system/script.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-02-28 15:54:55 EET; 10min ago
     Main PID: 16078 (bash)
       Tasks: 2 (limit: 2914)
      Memory: 564.0K
         CPU: 605ms
    CGroup: /system.slice/script.service
            └─16078 bash /usr/local/bin/script.sh
              17439 sleep 5

```

```

weam@weam-VirtualBox:/lib/systemd/system$ cat script.service
[Unit]
Description=Lazy print a list script
After=remote.fs.target nss-user-lookup.target

[Service]
ExecStart=/usr/local/bin/script.sh
IgnoreSIGPIPE=false
KillMode=process
Restart=On-failure

[Install]
WantedBy=multi-user.target

```

- 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 more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
*/5 * * * * gzip -r /tmp/list.log.1 /tmp/list.log

```