

1. nano script.sh
vi script.sh
sudo chmod +x script.sh
sudo ./script.sh

```
GNU nano 6.2 script.sh *
#!/bin/bash

while true
do
ls var/log >> /tmp/list.log
sleep 5
done

donia@donia-VirtualBox:~/Desktop$ vi script.sh
[4]+  Stopped vi script.sh
donia@donia-VirtualBox:~/Desktop$ sudo ./script.sh

donia@donia-VirtualBox: ~/Desktop
#!/bin/bash

while true
do
ls var/log >> /tmp/list.log
sleep 5
done

~
```

2. sudo cp script.sh /usr/local/bin
sudo cat /usr/local/bin/script.sh
sudo chmod +x script.sh
./script.sh

```
donia@donia-VirtualBox: /usr/local/bin
[sudo] password for donia:
Failed to enable unit: Unit file script.service does not exist.
donia@donia-VirtualBox:~/Desktop$ sudo cp script.sh /usr/local/bin
donia@donia-VirtualBox:~/Desktop$ sudo cat /usr/local/bin/script.sh
#!/bin/bash

while true
do
ls var/log >> /tmp/list.log
sleep 5
done

donia@donia-VirtualBox:~/Desktop$ cd /usr/usr/local/bin
bash: cd: /usr/usr/local/bin: No such file or directory
donia@donia-VirtualBox:~/Desktop$ cd /usr/local/bin
donia@donia-VirtualBox:/usr/local/bin$ ls
script.sh
donia@donia-VirtualBox:/usr/local/bin$ chmod +x script.sh
chmod: changing permissions of 'script.sh': Operation not permitted
donia@donia-VirtualBox:/usr/local/bin$ sudo chmod +x script.sh
donia@donia-VirtualBox:/usr/local/bin$ ./script.sh
./script.sh: line 5: /tmp/list.log: Permission denied
./script.sh: line 5: /tmp/list.log: Permission denied
^Z
[8]+  Stopped                  ./script.sh
```

3. nano lab4.service

systemctl start bg_process.service

systemctl status bg_process.service

```
GNU nano 6.2 lab4.service
[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

donia@donia-VirtualBox:~$ nano lab4.service
donia@donia-VirtualBox:~$ sudo cp lab4.service /etc/systemd/system/
[sudo] password for donia:
donia@donia-VirtualBox:~$ cd /etc/systemd/system/
donia@donia-VirtualBox:/etc/systemd/system$ systemctl start bg_process.service
donia@donia-VirtualBox:/etc/systemd/system$ systemctl status bg_process.service

● bg_process.service
   Loaded: loaded (/etc/systemd/system/bg_process.service; disabled; vendor >
   Active: active (running) since Sat 2023-03-04 19:17:22 EET; 2h 53min ago
   Main PID: 5190 (script.sh)
     Tasks: 2 (limit: 2552)
    Memory: 728.0K
         CPU: 1.460s
    CGroup: /system.slice/bg_process.service
            └─5190 /bin/bash /usr/local/bin/script.sh
              └─5751 sleep 5

19:17:22 04 مارس donia-VirtualBox systemd[1]: Started bg_process.service.
19:17:39 04 مارس donia-VirtualBox systemd[1]: /etc/systemd/system/bg_process.se>
lines 1-13/13 (END)
```

4. sudo apt-get update
- sudo apt-get install cron
- crontab -e

```

donia@donia-VirtualBox:~$ sudo apt-get update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://eg.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://eg.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:4 http://eg.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:5 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [454 kB]
Get:6 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [939 kB]
Get:7 http://eg.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [680 kB]
Get:8 http://eg.archive.ubuntu.com/ubuntu jammy-updates/restricted i386 Packages [27.3 kB]
Get:9 http://eg.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [877 kB]
Get:10 http://eg.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [601 kB]
Get:11 http://eg.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9,696 B]
Fetched 3,924 kB in 12s (317 kB/s)
Reading package lists... Done
donia@donia-VirtualBox:~$ sudo apt-get install cron
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cron is already the newest version (3.0pl1-137ubuntu3).
cron set to manually installed.
The following packages were automatically installed and are no longer required:
chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver

```

```

GNU nano 6.2 /tmp/crontab.2Bfxdr/crontab *
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# 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

```

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute
^X Exit	^R Read File	^_\ Replace	^U Paste	^J Justify