

Lab- 4

1-create script to list all files in /var/log every 5 sec and append it to tmp/list.log:

```
GNU nano 2.9.3                               bg-script.sh
while true
do
    ls /var/log > /tmp/list.log;
    cat /tmp/list.log
    echo "print is done"
    sleep 10;
done

lastlog
mongod
speech-dispatcher
syslog
syslog.1
syslog.2.gz
syslog.3.gz
syslog.4.gz
tallylog
ubuntu-advantage.log
unattended-upgrades
vboxadd-install.log
vboxadd-setup.log
vboxadd-setup.log.1
vboxadd-setup.log.2
vboxadd-setup.log.3
vboxadd-uninstall.log
vboxpostinstall.log
wtmp
print is done
^Z
[3]+  Stopped                               ./bg-script.sh
yossef@ubuntu-18:/usr/local/bin$ nano bg-script.sh
yossef@ubuntu-18:/usr/local/bin$ ./bg-script.sh
```

2- copy script to /usr/local/bin and make it executable:

```
yossef@ubuntu-18:/usr/local/bin$ ls
bg-script.sh
yossef@ubuntu-18:/usr/local/bin$ ls -ld bg-script.sh
-rwxrwxr-x 1 root yossef 101 Feb 21 17:42 bg-script.sh
yossef@ubuntu-18:/usr/local/bin$
```

3- create system service to execute the script in the bg:

```
GNU nano 2.9.3 myservice.service

[Unit]
Description= list system logs into list.log file script daemon
After= remote-fs.target nss-user-lookup.target

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

[Install]
WantedBy=multi-user.target

Directory '.' is not writable
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text M-J To Bracket
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line M-E Redo M-G Copy Text M-W WhereIs Next

yossef@ubuntu-18:/etc/systemd/system$ sudo systemctl daemon-reload
yossef@ubuntu-18:/etc/systemd/system$ sudo systemctl start myservice.service
yossef@ubuntu-18:/etc/systemd/system$ sudo systemctl status myservice.service
● myservice.service - list system logs into list.log file script daemon
   Loaded: loaded (/etc/systemd/system/myservice.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-02-21 18:35:41 EET; 8s ago
     Main PID: 5011 (bash)
       Tasks: 2 (limit: 3323)
      CGroup: /system.slice/myservice.service
              └─5011 /bin/bash /usr/local/bin/bg-script.sh
                 5014 sleep 10

Feb 21 18:35:41 ubuntu-18 bash[5011]: unattended-upgrades
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-install.log
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-setup.log
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-setup.log.1
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-setup.log.2
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-setup.log.3
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxadd-uninstall.log
Feb 21 18:35:41 ubuntu-18 bash[5011]: vboxpostinstall.log
Feb 21 18:35:41 ubuntu-18 bash[5011]: wtmp
Feb 21 18:35:41 ubuntu-18 bash[5011]: print is done
yossef@ubuntu-18:/etc/systemd/system$
```

4- using cron schedule a job to copy /tmp/list.log to /tmp/list.log1 every 5 min:

```
GNU nano 2.9.3 /tmp/crontab.XASShM/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:
*/5 * * * * cat /tmp/list.log > /tmp/list.log1 ; zip -r /tmp/list.log1.zip /tmp/list.log1
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
```

```
yossef@ubuntu-18:/etc/systemd/system$ systemctl status cron
● cron.service - Regular background program processing daemon
   Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-02-21 14:54:30 EET; 4h 15min ago
     Docs: man:cron(8)
    Main PID: 723 (cron)
      Tasks: 1 (limit: 3323)
    CGroup: /system.slice/cron.service
            └─723 /usr/sbin/cron -f

Warning: Journal has been rotated since unit was started. Log output is incomplete or unavailable.
yossef@ubuntu-18:/etc/systemd/system$
```

```
yossef@ubuntu-18:/etc/systemd/system$ ls /tmp
config-err-P9KWow
list.log
list.log1
list.log1.zip
mongodb-27017.sock
snap-private-tmp
ssh-Soc9T8Q4LaJt
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-apache2.service-04UdYN
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-bolt.service-RcSg2T
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-colord.service-1iPHTi
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-ModemManager.service-k6SVba
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-rtkit-daemon.service-CpLezY
systemd-private-7e5fa3727a3b4b6489a060dbf624be03-systemd-resolved.service-WH1ZNr
yossef@ubuntu-18:/etc/systemd/system$
```