

NETWORKING & SYSTEM ADMINISTRATION LAB

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Roll No: 20

Batch: RMCA A

Date: 09/05/2022

Experiment No: 12

Aim

Learn about Systemd and init

Procedure

Create a script

```
$ sudo nano usrbin/script.sh
```

Write content

```
#!/bin/bash
```

```
while true
```

```
do
```

```
    sleep 10
```

```
done
```

Give the file execute permission

```
$ sudo chmod +x usr/bin/script.sh
```

Create a systemd file to run the above file as a service

```
$ sudo nano /lib/systemd/shellsript.service
```

Write the content:

[Unit]

Description= My shell Script

[Service]

ExecStart=/usr/bin/script.sh

[Install]

WantedBy=multi-user.target

Reload the systemctl daemon

\$ sudo systemctl daemon-reload

Enable and start, stop, restart and diable the service

\$ sudo systemctl enable shellscript.service

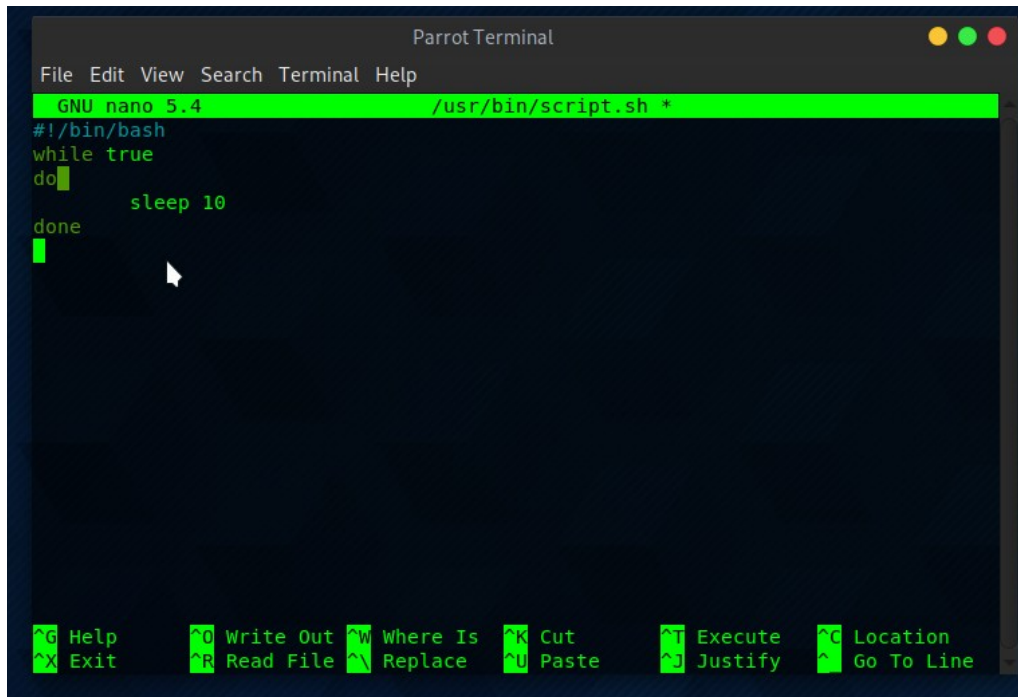
\$sudo systemctl start shellscript.service

\$sudo systemctl status shellscript.service

\$sudo systemctl stop shellscript.service

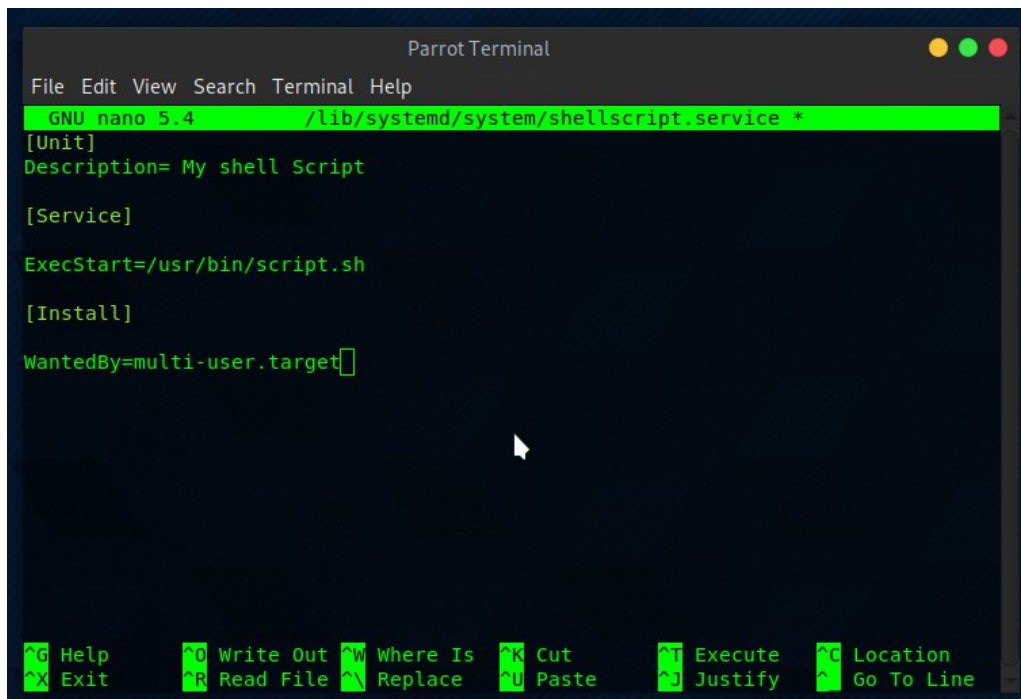
\$sudo systemctl disable shellscript.service

Output Screenshot



```
Parrot Terminal
File Edit View Search Terminal Help
GNU nano 5.4 /usr/bin/script.sh *
#!/bin/bash
while true
do
    sleep 10
done
```

Help Write Out Where Is Cut Execute Location
Exit Read File Replace Paste Justify Go To Line



```
Parrot Terminal
File Edit View Search Terminal Help
GNU nano 5.4 /lib/systemd/system/shellservice.service *
[Unit]
Description= My shell Script

[Service]
ExecStart=/usr/bin/script.sh

[Install]
WantedBy=multi-user.target
```

Help Write Out Where Is Cut Execute Location
Exit Read File Replace Paste Justify Go To Line

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo nano /usr/bin/script.sh
[sudo] password for allensphilip:
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo chmod +x /usr/bin/script.sh
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo nano /lib/systemd/system/shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo nano /lib/systemd/system/shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo nano /lib/systemd/system/shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl daemon-reload
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl enable shellservice.service
Created symlink /etc/systemd/system/multi-user.target.wants/shellservice.service
→ /lib/systemd/system/shellservice.service.
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl start shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl status shellservice.service
● shellservice.service - My shell Script
   Loaded: loaded (/lib/systemd/system/shellservice.service; enabled; vendor p
   Active: active (running) since Sun 2022-06-12 04:02:03 IST; 11s ago
   Main PID: 61195 (script.sh)
     Tasks: 2 (limit: 8720)
    Memory: 688.0K
       CPU: 6ms
    CGroup: /system.slice/shellservice.service
            └─61195 /bin/bash /usr/bin/script.sh
              61200 sleep 10

Jun 12 04:02:03 SEC-ROG systemd[1]: Started My shell Script.
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl stop shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl restart shellservice.service
[allensphilip@SEC-ROG]~[/MCA/ACN]
→ $sudo systemctl disable shellservice.service
Removed /etc/systemd/system/multi-user.target.wants/shellservice.service.
```