

**NETWORKING & SYSTEM ADMINISTRATION LAB****Name: VYSHNAVI BABU S****Roll No: 55****Batch: B****Date: 16-06-2022****Experiment No.: 29****Aim**

Familiarity with systemd and systemd init Scripts

**Procedure****Step 1 : Create a shell script**

First of all, create a shell script to run always until the system is running.

**\$ sudo gedit /usr/bin/script.sh**

And add a sample script

A screenshot of a text editor window titled 'script.sh' with the path '/usr/bin' shown below the title. The editor contains a shell script with the following content: '#!/bin/sh', 'while true', 'do', 'sleep 10', and 'done;'. The text is color-coded: the shebang is blue, 'while true' is red, 'do' is red, 'sleep 10' is red, and 'done;' is red. The editor has a dark background and a light-colored border.

```
#!/bin/sh
while true
do
sleep 10
done;
```

**Step 2 : Create a system file**

Next create a service file for the systemd on our system.

**\$ sudo gedit /lib/systemd/system/shellservice.sh**

```
[Unit]
Description=My Shell Script

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

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

### Step 3 : Enable new service

Our system service has been added to our service. Let's reload the systemctl daemon to read new file.

```
$ sudo systemctl daemon-reload
```

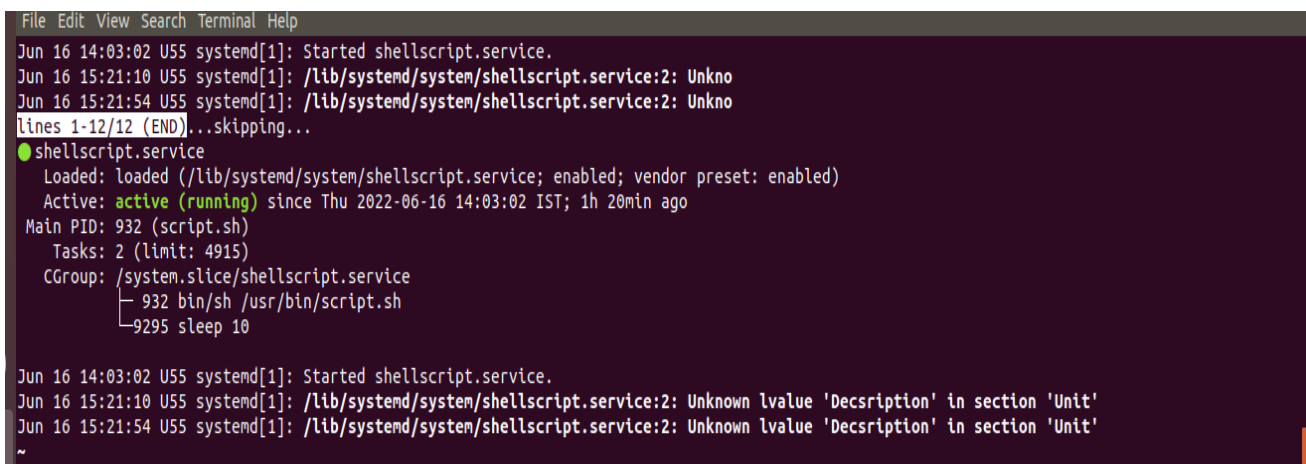
Now enable the service to start on system boot, also start the service using :

```
$ sudo systemctl enable shellsript.service
```

```
$ sudo systemctl start shellsript.service
```

Finally verify the script is up and running as a systemd service.

```
$ sudo systemctl status shellsript.service
```

A terminal window with a dark background and light text. The title bar shows 'File Edit View Search Terminal Help'. The output of the 'systemctl status shellsript.service' command is displayed. It shows the service is loaded and enabled, and is currently active (running) since 14:03:02 IST on 2022-06-16. The main PID is 932, running 'script.sh'. There are two tasks: 'bin/sh /usr/bin/script.sh' (PID 932) and 'sleep 10' (PID 9295). At the bottom, there are three lines of journal logs showing the service being started and two 'Unknown lvalue' warnings for the 'Description' field in the 'Unit' section.

```
File Edit View Search Terminal Help
Jun 16 14:03:02 U55 systemd[1]: Started shellsript.service.
Jun 16 15:21:10 U55 systemd[1]: /lib/systemd/system/shellsript.service:2: Unkno
Jun 16 15:21:54 U55 systemd[1]: /lib/systemd/system/shellsript.service:2: Unkno
lines 1-12/12 (END)...skipping...
● shellsript.service
   Loaded: loaded (/lib/systemd/system/shellsript.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-06-16 14:03:02 IST; 1h 20min ago
 Main PID: 932 (script.sh)
    Tasks: 2 (limit: 4915)
   CGroup: /system.slice/shellsript.service
           └─ 932 bin/sh /usr/bin/script.sh
             └─ 9295 sleep 10

Jun 16 14:03:02 U55 systemd[1]: Started shellsript.service.
Jun 16 15:21:10 U55 systemd[1]: /lib/systemd/system/shellsript.service:2: Unknown lvalue 'Decsription' in section 'Unit'
Jun 16 15:21:54 U55 systemd[1]: /lib/systemd/system/shellsript.service:2: Unknown lvalue 'Decsription' in section 'Unit'
~
```