

## SOFTWARE AG

ID: 50011031

EX.NO: 13

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DATE: 14/04/2021

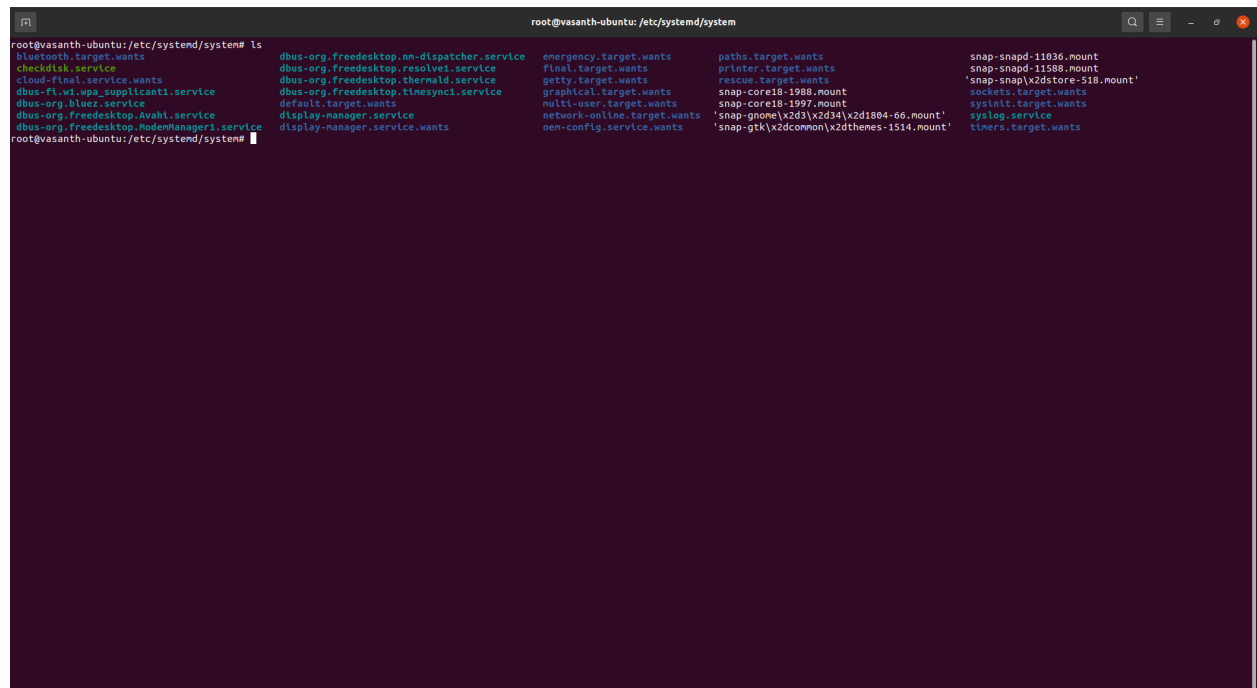
**Aim:**

To create a service file and run a process using it.

**Commands:**

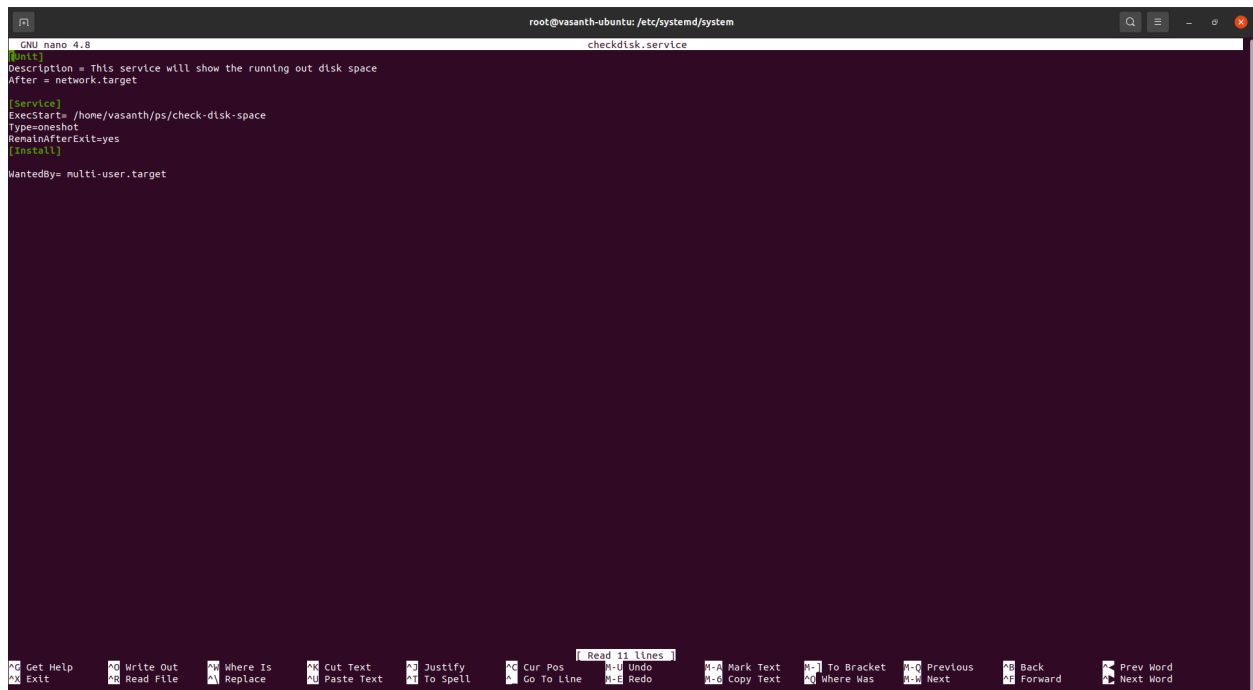
```
> cd /etc/systemd/system
```

```
> ls
```



```
root@vasanth-ubuntu: /etc/systemd/system
root@vasanth-ubuntu:/etc/systemd/system# ls
bluetooth.target.wants      dbus-org.freedesktop.nm-dispatcher.service  emergency.target.wants      paths.target.wants          snap-snapd-11036.mount
checkdisk.service           dbus-org.freedesktop.resolve1.service        final.target.wants          printer.target.wants         snap-snapd-11588.mount
cloud-final.service.wants   dbus-org.freedesktop.thermal.service         getty.target.wants          rescue.target.wants          'snap-snap\x2dstore-518.mount'
dbus-rl.wi.wpa_supplicant1.service  dbus-org.freedesktop.timesync1.service      graphical.target.wants      snap-core18-1988.mount      sockets.target.wants
dbus-org.bluez.service      default.target.wants                        multi-user.target.wants     snap-core18-1997.mount      sysinit.target.wants
dbus-org.freedesktop.Avalahi.service  display-manager.service                     network-online.target.wants 'snap-gnome\x2d3\x2d34\x2d1804-66.mount'
dbus-org.freedesktop.ModemManager1.service  display-manager.service.wants              oem-config.service.wants   'snap-gtk\x2dcommon\x2dthemes-1514.mount'
root@vasanth-ubuntu:/etc/systemd/system#
```

> nano checkdisk.service



The screenshot shows the nano text editor in root mode editing the file /etc/systemd/system/checkdisk.service. The file content is as follows:

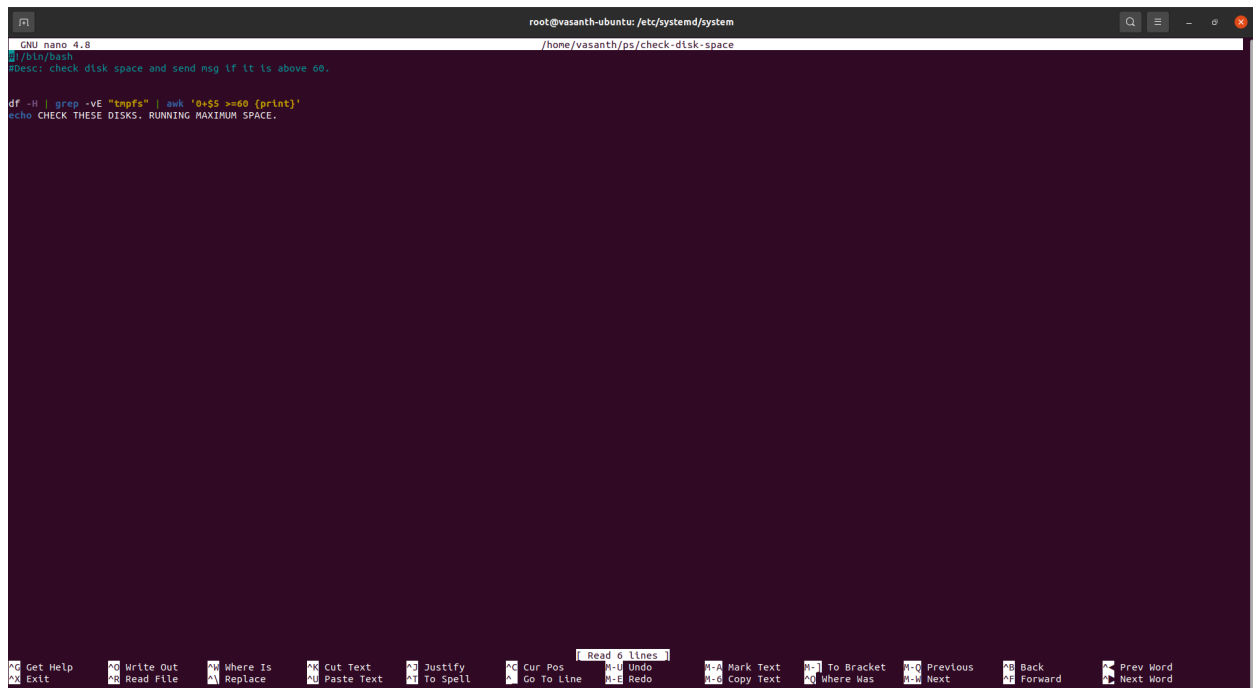
```
GNU nano 4.8 checkdisk.service
[Unit]
Description = This service will show the running out disk space
After = network.target

[Service]
ExecStart= /home/vasanth/ps/check-disk-space
Type=oneshot
RemainAfterExit=yes
[install]

WantedBy= multi-user.target
```

The bottom status bar of the nano editor shows various shortcuts and a 'Read 11 lines' indicator.

> nano /home/vasanth/ps/check-disk-space (script file)



The screenshot shows the nano text editor in root mode editing the script file /home/vasanth/ps/check-disk-space. The script content is as follows:

```
GNU nano 4.8 /home/vasanth/ps/check-disk-space
#!/bin/bash
#desc: check disk space and send msg if it is above 80.

df -H | grep -vE "tmpfs" | awk '0+$5 >=80 {print}'
echo CHECK THESE DISKS. RUNNING MAXIMUM SPACE.
```

The bottom status bar of the nano editor shows various shortcuts and a 'Read 6 lines' indicator.

> systemctl daemon-reload

> systemctl enable checkdisk.service

```
root@vasanth-ubuntu: /etc/systemd/system
root@vasanth-ubuntu:/etc/systemd/system# systemctl enable checkdisk.service
Created symlink /etc/systemd/system/multi-user.target.wants/checkdisk.service → /etc/systemd/system/checkdisk.service.
root@vasanth-ubuntu:/etc/systemd/system#
```

- > systemctl start checkdisk.service
- > systemctl status checkdisk.service

```
root@vasanth-ubuntu: /etc/systemd/system
root@vasanth-ubuntu:/etc/systemd/system# systemctl status checkdisk.service
● checkdisk.service - This service will show the running out disk space
   Loaded: loaded (/etc/systemd/system/checkdisk.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-04-14 22:19:56 IST; 10min ago
     Main PID: 51956 (code=exited, status=0/SUCCESS)
        Tasks: 0 (limit: 9346)
       Memory: 88
      CGroup: /system.slice/checkdisk.service

Apr 14 22:19:56 vasanth-ubuntu systemd[1]: Starting This service will show the running out disk space...
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop3      69M   69M   0 100% /snap/gtk-common-themes/1514
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop2      33M   33M   0 100% /snap/snapd/11036
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop0      54M   54M   0 100% /snap/snap-store/518
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop5      34M   34M   0 100% /snap/snapd/11588
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop4      59M   59M   0 100% /snap/core18/1988
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop6      59M   59M   0 100% /snap/core18/1997
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51959]: /dev/loop1    230M  230M   0 100% /snap/gnome-3-34-1804/66
Apr 14 22:19:56 vasanth-ubuntu check-disk-space[51956]: CHECK THESE DISKS. RUNNING MAXIMUM SPACE.
Apr 14 22:19:56 vasanth-ubuntu systemd[1]: Finished This service will show the running out disk space.
root@vasanth-ubuntu:/etc/systemd/system#
```

**Result:** The service is successfully started and the script file is loaded properly.