

Create systemd

Create one dir

```
[root@vivek ~]# mkdir data
[root@vivek ~]# cd data/
[root@vivek data]# touch test{.txt,.sh,.service,.timer}
[root@vivek data]# ls
test.service test.sh test.timer test.txt
[root@vivek data]#
```

Create bash file

```
[root@vivek data]# vim test.sh
#!/bin/bash
# backup script for /home dir..
LINUX=$(tar cf /root/yahoo.tar /home/)
printf "Backup Done..at '(date)'\n" $LINUX >> /root/data/test.txt
~
```

Give permission

```
[root@vivek data]# chmod +x test.sh
[root@vivek data]# ll test.sh
-rwxr-xr-x. 1 root root 150 Mar  1 03:49 test.sh
[root@vivek data]#
```

Create 2 bash file

```
[root@vivek data]# cd /etc/systemd/system
[root@vivek system]# cp /root/data/test.timer .
[root@vivek system]# cp /root/data/test.service .
[root@vivek system]# ls
basic.target wants dbus org.freedesktop.timedatd1.service muser
```

```
[root@vivek system]# vim test.service
[Service]
ExecStart=/bin/bash /root/data/test.sh

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

```
[root@vivek system]# vim test.timer
[Unit]
Description="Action time for /home dir backup vivevk.."

[Timer]
OnCalendar=*:00/2

[Install]
WantedBy=test.service
~
~
```

Execute file to systemctl

```
[root@vivek system]# systemd-analyze verify test.*
run-media-vgandhi-RHEL\x2d8\x2d2\x2d0\x2dBaseOS\x2dx86_64.moun
[root@vivek system]# systemctl daemon-reload
```

Create systemd

```
[root@vivek ~]# ls /root/
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf
[root@vivek ~]# systemctl enable test.timer --now
Created symlink /etc/systemd/system/test.service.wants/test.timer → /etc/systemd/system/test.timer.
[root@vivek ~]# systemctl enable test.service --now
Created symlink /etc/systemd/system/multi.user.target.wants/test.service → /etc/systemd/system/test.service.
[root@vivek ~]# ls
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf  yahoo.tar
```

```
[root@vivek ~]# systemctl status test.timer
● test.timer - "Action time for /home dir backup vivek.."
   Loaded: loaded (/etc/systemd/system/test.timer; enabled; vendor preset: disabled)
   Active: active (waiting) since Tue 2022-03-01 04:07:19 EST; 1min 19s ago
   Trigger: Tue 2022-03-01 04:10:00 EST; 1min 20s left
```

Mar 01 04:07:19 vivek.gandhi.com systemd[1]: Started "Action time for /home dir backup vivek..".

```
[root@vivek ~]# systemctl list-timers
NEXT                LEFT    LAST                PASSED             UNIT                                ACTIVATES
Tue 2022-03-01 04:10:00 EST 58s left Tue 2022-03-01 04:08:02 EST 59s ago test.timer test.service
Tue 2022-03-01 04:49:01 EST 39min left Tue 2022-03-01 03:49:00 EST 20min ago dnf-makecache.timer dnf-makecache.service
Wed 2022-03-02 00:00:00 EST 19h left Tue 2022-03-01 00:00:00 EST 4h 9min ago unbound-anchor.timer unbound-anchor.service
Wed 2022-03-02 00:53:26 EST 20h left Tue 2022-03-01 00:53:26 EST 3h 15min ago systemd-tmpfiles-clean.timer systemd-tmpfiles-clean.service
```

```
[root@vivek ~]# systemctl list-timers
NEXT                LEFT    LAST                PASSED             UNIT                                ACTIVATES
Tue 2022-03-01 04:10:00 EST 58s left Tue 2022-03-01 04:08:02 EST 59s ago test.timer test.service
Tue 2022-03-01 04:49:01 EST 39min left Tue 2022-03-01 03:49:00 EST 20min ago dnf-makecache.timer dnf-makecache.service
Wed 2022-03-02 00:00:00 EST 19h left Tue 2022-03-01 00:00:00 EST 4h 9min ago unbound-anchor.timer unbound-anchor.service
Wed 2022-03-02 00:53:26 EST 20h left Tue 2022-03-01 00:53:26 EST 3h 15min ago systemd-tmpfiles-clean.timer systemd-tmpfiles-clean.service
```

4 timers listed.
Pass --all to see loaded but inactive timers, too.

```
[root@vivek ~]# ls
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf
[root@vivek ~]# ls
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf  yahoo.tar
[root@vivek ~]# rm -rf yahoo.tar
[root@vivek ~]# ls
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf
[root@vivek ~]# ls
anaconda-ks.cfg  data  index.html  index.html.1  initial-setup-ks.cfg  pgdg-redhat-repo-latest.noarch.rpm  pg_hba.conf  postgresql.conf  yahoo.tar
[root@vivek ~]#
```