Configure NTP server and client
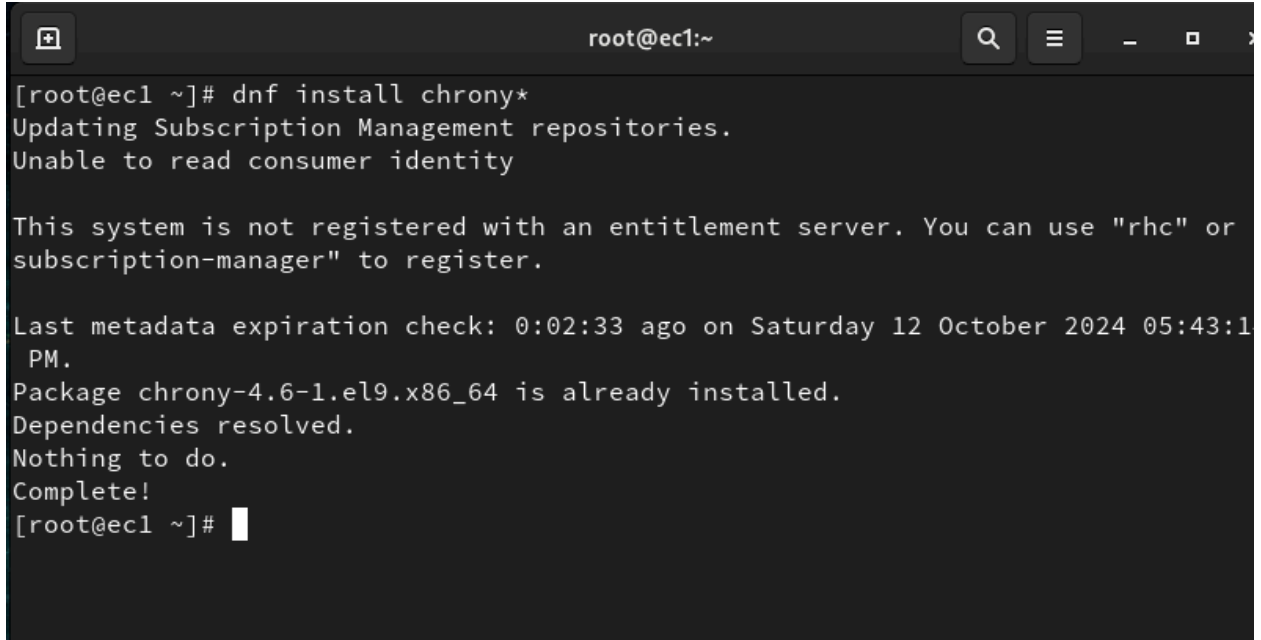
1. Install chrony in server
#dnf install chrony*

```
[root@ec1 ~]# dnf install chrony*
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or
subscription-manager" to register.

Last metadata expiration check: 0:02:33 ago on Saturday 12 October 2024 05:43:1
 PM.
Package chrony-4.6-1.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@ec1 ~]#
```

2.Check the status chronyd
#systemctl status chronyd

```
□                    root@ec1:~ — systemctl status chronyd        Q  ☰  _  □  ×

● chronyd.service - NTP client/server
     Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; preset: ▷
     Active: active (running) since Sat 2024-10-12 17:42:07 IST; 4min 43s ago
       Docs: man:chronyd(8)
             man:chrony.conf(5)
    Process: 718 ExecStart=/usr/sbin/chronyd $OPTIONS (code=exited, status=0/SU▷
   Main PID: 741 (chronyd)
      Tasks: 1 (limit: 23032)
     Memory: 1.7M
        CPU: 440ms
     CGroup: /system.slice/chronyd.service
             └─741 /usr/sbin/chronyd -F 2

Oct 12 17:42:07 ec1.in chronyd[741]: chronyd version 4.6 starting (+CMDMON +NTP▷
Oct 12 17:42:07 ec1.in chronyd[741]: Loaded 0 symmetric keys
Oct 12 17:42:07 ec1.in chronyd[741]: Using right/UTC timezone to obtain leap se▷
Oct 12 17:42:07 ec1.in chronyd[741]: Frequency -25.684 +/- 0.975 ppm read from ▷
Oct 12 17:42:07 ec1.in chronyd[741]: Loaded seccomp filter (level 2)
Oct 12 17:42:07 ec1.in systemd[1]: Started NTP client/server.
Oct 12 17:42:32 ec1.in chronyd[741]: Selected source 2600:3c08:e001:8:0:a789:b4▷
Oct 12 17:42:32 ec1.in chronyd[741]: System clock TAI offset set to 37 seconds
Oct 12 17:43:36 ec1.in chronyd[741]: Selected source 2400:8904:e001:18d:0:a789:▷
Oct 12 17:45:45 ec1.in chronyd[741]: Selected source 2600:3c08:e001:8:0:a789:b4▷
lines 1-23
```

3. Run #timedatectl

```
[root@ec1 ~]# timedatectl
               Local time: Sat 2024-10-12 17:47:45 IST
          Universal time: Sat 2024-10-12 12:17:45 UTC
                RTC time: Sat 2024-10-12 12:17:44
               Time zone: Asia/Kolkata (IST, +0530)
System clock synchronized: yes
             NTP service: active
         RTC in local TZ: no
[root@ec1 ~]#
```

4.Configure the chrony file

```
[root@ec1 ~]# vi /etc/chrony.conf
[root@ec1 ~]#
```

Add line 3 #pool ntp.cdac.in   iburst

5.Start the chronyd and check the status
#systemctl restart chronyd

```
[root@ec1 ~]# systemctl enable --now chronyd
[root@ec1 ~]# systemctl restart chronyd
[root@ec1 ~]# systemctl status chronyd
● chronyd.service - NTP client/server
     Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; preset: >
     Active: active (running) since Sat 2024-10-12 17:56:18 IST; 8s ago
       Docs: man:chronyd(8)
             man:chrony.conf(5)
    Process: 2858 ExecStart=/usr/sbin/chronyd $OPTIONS (code=exited, status=0/S>
   Main PID: 2861 (chronyd)
      Tasks: 2 (limit: 23032)
     Memory: 1.0M
        CPU: 64ms
     CGroup: /system.slice/chronyd.service
             └─2861 /usr/sbin/chronyd -F 2

Oct 12 17:56:18 ec1.in systemd[1]: Starting NTP client/server...
Oct 12 17:56:18 ec1.in chronyd[2861]: chronyd version 4.6 starting (+CMDMON +NT>
Oct 12 17:56:18 ec1.in chronyd[2861]: Loaded 0 symmetric keys
Oct 12 17:56:18 ec1.in chronyd[2861]: Using right/UTC timezone to obtain leap s>
Oct 12 17:56:18 ec1.in chronyd[2861]: Frequency -30.666 +/- 1.241 ppm read from>
Oct 12 17:56:18 ec1.in chronyd[2861]: Loaded seccomp filter (level 2)
Oct 12 17:56:18 ec1.in systemd[1]: Started NTP client/server.
lines 1-20/20 (END)
```

You can see the client

```
[root@ec1 ~]# chronyc clients
Hostname                      NTP  Drop Int IntL Last   Cmd  Drop Int  Last
===============================================================================
192.168.0.108                  1     0   -   -    2      0     0    -     -
[root@ec1 ~]#
```

6. Install the chrony on client

```
[root@mail ~]# dnf -y install chrony
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or
subscription-manager" to register.

CentOS Stream 9 - BaseOS                         5.0 kB/s | 7.9 kB     00:01
CentOS Stream 9 - AppStream                      2.5 kB/s | 8.0 kB     00:03
CentOS Stream 9 - Extras packages                2.4 kB/s | 8.6 kB     00:03
Package chrony-4.6-1.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@mail ~]#
```

7.configure the file and start the chronyd

```
[root@mail ~]# vi /etc/chrony.conf
[root@mail ~]# systemctl enable chronyd
[root@mail ~]# systemctl start chronyd
[root@mail ~]# systemctl status chronyd
● chronyd.service - NTP client/server
     Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; preset: |
     Active: active (running) since Sat 2024-10-12 17:57:49 IST; 4min 0s ago
       Docs: man:chronyd(8)
             man:chrony.conf(5)
   Main PID: 717 (chronyd)
      Tasks: 1 (limit: 23032)
     Memory: 2.0M
        CPU: 216ms
     CGroup: /system.slice/chronyd.service
             └─717 /usr/sbin/chronyd -F 2

Oct 12 17:57:48 mail.ec2.in systemd[1]: Starting NTP client/server...
Oct 12 17:57:49 mail.ec2.in chronyd[717]: chronyd version 4.6 starting (+CMDMON|
Oct 12 17:57:49 mail.ec2.in chronyd[717]: Loaded 0 symmetric keys
Oct 12 17:57:49 mail.ec2.in chronyd[717]: Using right/UTC timezone to obtain le|
Oct 12 17:57:49 mail.ec2.in chronyd[717]: Frequency -31.637 +/- 0.981 ppm read |
Oct 12 17:57:49 mail.ec2.in chronyd[717]: Loaded seccomp filter (level 2)
Oct 12 17:57:49 mail.ec2.in systemd[1]: Started NTP client/server.
```

8.You can see by the command #chronyc sources it is showing the server ip address

```
[root@mail ~]# chronyc sources
MS Name/IP address         Stratum Poll Reach LastRx Last sample
===============================================================================
^* 192.168.0.106                 6    6    17     44   +150us[ +271us] +/-   12ms
[root@mail ~]# S
```