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Practical 12

1. Set your system clock in such a way that it is NTP client of classroom.exaple.com and verify the same

Command:-

```
sudo systemctl enable chronyd
sudo systemctl start chronyd
sudo vi /etc/chrony.conf
sudo systemctl restart chronyd
Chroync sources
Chroync tracking
timedatectl
```

in chrony.conf:-
```
server classroom.example.com iburst
```

Image:-

```
[student@workstation ~]$ sudo systemctl enable chronyd
[student@workstation ~]$ sudo systemctl start chronyd
[student@workstation ~]$ sudo vi /etc/chrony.conf
[student@workstation ~]$ sudo systemctl restart chronyd
```

```
[student@workstation ~]$ chronyc sources
210 Number of sources = 1
MS Name/IP address         Stratum Poll Reach LastRx Last sample
===============================================================================
^* classroom.example.com      2    6    17    16   -15us[  -59us] +/- 7289us
[student@workstation ~]$
[student@workstation ~]$ chronyc tracking
Reference ID    : AC19FEFE (classroom.example.com)
Stratum         : 3
Ref time (UTC)  : Sat May 04 10:03:22 2024
System time     : 0.000000045 seconds fast of NTP time
Last offset     : -0.000044096 seconds
RMS offset      : 0.000044096 seconds
Frequency       : 23.989 ppm slow
Residual freq   : -1.386 ppm
Skew            : 0.352 ppm
Root delay      : 0.004869310 seconds
Root dispersion : 0.004967827 seconds
Update interval : 2.0 seconds
Leap status     : Normal
[student@workstation ~]$
```

```
[student@workstation ~]$ timedatectl
               Local time: Sat 2024-05-04 06:04:23 EDT
           Universal time: Sat 2024-05-04 10:04:23 UTC
                 RTC time: Sat 2024-05-04 10:04:22
                Time zone: America/New_York (EDT, -0400)
System clock synchronized: yes
              NTP service: active
          RTC in local TZ: no
[student@workstation ~]$
```

In chrony.conf:-

```
# Use public servers from the pool.ntp.org project.
# Please consider joining the pool (http://www.pool.ntp.org/join.html).
#server 0.rhel.pool.ntp.org iburst
#server 1.rhel.pool.ntp.org iburst
#server 2.rhel.pool.ntp.org iburst
#server 3.rhel.pool.ntp.org iburst
server 172.25.254.254 iburst
server classroom.example.com iburst

# Ignore stratum in source selection.
stratumweight 0

# Record the rate at which the system clock gains/losses time.
driftfile /var/lib/chrony/drift

# Enable kernel RTC synchronization.
rtcsync

# In first three updates step the system clock instead of slew
# if the adjustment is larger than 10 seconds.
makestep 10 3

# Allow NTP client access from local network.
```
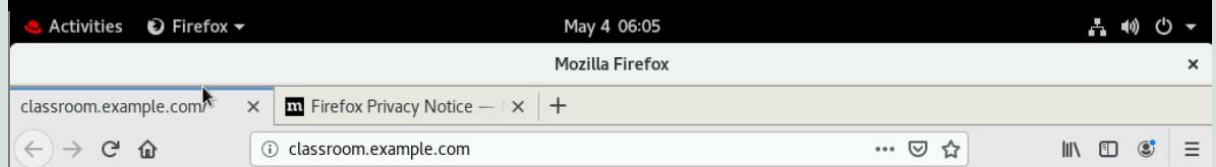
Welcome to Red Hat Training!

2. Create an archive of /usr/local directory and compress it as
   /root/yourname_surname.tar.xz

Command:-

    pwd /
    Cd /
    Sudo tar -cvJf /root/DWij.tar.xz /usr/local

Image:-

```
[student@workstation /]$ sudo tar -cvJf /root/DWij.tar.xz /usr/local
tar: Removing leading `/' from member names
/usr/local/
/usr/local/bin/
/usr/local/bin/lab
/usr/local/bin/rht-verify-workstation
/usr/local/etc/
/usr/local/games/
/usr/local/include/
/usr/local/lib/
/usr/local/lib64/
/usr/local/libexec/
/usr/local/sbin/
/usr/local/sbin/rht-vmsetup-ifcfg
/usr/local/sbin/rht-vmsetup-getkeys
/usr/local/sbin/rht-vmsetup-getcourse
/usr/local/sbin/rht-vmsetup-reseal
/usr/local/share/
/usr/local/share/applications/
/usr/local/share/applications/mimeinfo.cache
/usr/local/share/info/
/usr/local/share/man/
/usr/local/share/man/man1/
/usr/local/share/man/man1x/
```

3. Display the list of directories/files present inside the compressed file

Command:-
Tar -tvf /root/DWij.tar.xz

Image:-

```
[student@workstation /]$ tar -tvf /root/DWij.tar.xz
tar: /root/DWij.tar.xz: Cannot open: Permission denied
tar: Error is not recoverable: exiting now
[student@workstation /]$ sudo tar -tvf /root/DWij.tar.xz
drwxr-xr-x root/root         0 2020-04-23 01:12 usr/local/
drwxr-xr-x root/root         0 2020-05-07 09:38 usr/local/bin/
-rwxr-xr-x root/root      5232 2024-05-28 13:12 usr/local/bin/lab
-rwxr-xr-x root/root      8138 2020-05-07 09:38 usr/local/bin/rht-verify-work
station
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/etc/
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/games/
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/include/
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/lib/
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/lib64/
drwxr-xr-x root/root         0 2018-08-12 05:46 usr/local/libexec/
drwxr-xr-x root/root         0 2020-05-07 09:38 usr/local/sbin/
-rwxr-xr-x root/root      7533 2020-05-07 09:38 usr/local/sbin/rht-vmsetup-if
cfg
-rwxr-xr-x root/root      3469 2020-05-07 09:38 usr/local/sbin/rht-vmsetup-ge
tkeys
-rwxr-xr-x root/root      6567 2020-05-07 09:38 usr/local/sbin/rht-vmsetup-ge
tcourse
-rwxr-xr-x root/root      2186 2020-05-07 09:38 usr/local/sbin/rht-vmsetup-re
seal
```

4. Extract the compressed file in such a way that the names of directories/files must be visible while extraction.

Command:-
Tar -xvf /root/DWij.tar.xz

Image:-

```
[student@workstation /]$ sudo tar -xvf /root/DWij.tar.xz
usr/local/
usr/local/bin/
usr/local/bin/lab
usr/local/bin/rht-verify-workstation
usr/local/etc/
usr/local/games/
usr/local/include/
usr/local/lib/
usr/local/lib64/
usr/local/libexec/
usr/local/sbin/
usr/local/sbin/rht-vmsetup-ifcfg
usr/local/sbin/rht-vmsetup-getkeys
usr/local/sbin/rht-vmsetup-getcourse
usr/local/sbin/rht-vmsetup-reseal
usr/local/share/
usr/local/share/applications/
usr/local/share/applications/mimeinfo.cache
usr/local/share/info/
usr/local/share/man/
usr/local/share/man/man1/
usr/local/share/man/man1x/
usr/local/share/man/man2/
```