[**xclock command not working on RHEL 8**](https://www.onrequestlab.com/blog-detail.php?id=2) **/CENTOS**

What is xclock command?

The xclock command is useful to get the time from the system clock, which then updates and displays it as a digital or analogue clock. To display the clock in analogue or digital formats, choose the appropriate flag. Additionally, you can choose flags to control the clock's appearance, such as the chime and update frequency, colours, and border width.

Here are the following steps you can check if you are facing xclock command issues:

1. You should let your ssh session forward x11 display with -X parameter or use mobaxterm from there you can also login. If xclock package is already installed in your system, then you can jump to Step 4.

**$ ssh -X user@ip**

1. First check if the package is installed or not.

**[root@onrequestlab ~]# yum whatprovides xclock**

Updating Subscription Management repositories.

Last metadata expiration check: 0:01:29 ago on Sun 11 Jun 2023 09:50:48 AM CDT.

**xorg-x11-apps**-7.7-21.el8.x86\_64 : X.Org X11 applications

Repo        : codeready-builder-for-rhel-8-x86\_64-rpms

Matched from:

Provide    : xclock = 1.0.7

1. If not, then we need to install install xorg-x11-apps from yum command.

**[root@onrequestlab ~]# yum install xorg-x11-apps**

Updating Subscription Management repositories.

Last metadata expiration check: 0:02:14 ago on Sun 11 Jun 2023 09:50:48 AM CDT.

Dependencies resolved.

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 Package                          Architecture              Version                        Repository                                                   Size

====================================================

Installing:

 xorg-x11-apps                    x86\_64                    7.7-21.el8                     codeready-builder-for-rhel-8-x86\_64-rpms                    333 k

Installing dependencies:

 libxkbfile                       x86\_64                    1.1.0-1.el8                    rhel-8-for-x86\_64-appstream-rpms                             88 k

Transaction Summary

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Install  2 Packages

Total download size: 421 k

Installed size: 1.2 M

Is this ok [y/N]: y

Downloading Packages:

(1/2): xorg-x11-apps-7.7-21.el8.x86\_64.rpm                                                                                    90 kB/s | 333 kB     00:03

(2/2): libxkbfile-1.1.0-1.el8.x86\_64.rpm                                                                                      13 kB/s |  88 kB     00:06

-----------------------------------------------------------------------------------------

Total                                                                                                                         64 kB/s | 421 kB     00:06

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

  Preparing        :                                                                                                                                     1/1

  Installing       : libxkbfile-1.1.0-1.el8.x86\_64                                                                                                       1/2

  Installing       : xorg-x11-apps-7.7-21.el8.x86\_64                                                                                                     2/2

  Running scriptlet: xorg-x11-apps-7.7-21.el8.x86\_64                                                                                                     2/2

  Verifying        : xorg-x11-apps-7.7-21.el8.x86\_64                                                                                                     1/2

  Verifying        : libxkbfile-1.1.0-1.el8.x86\_64                                                                                                      2/2

Installed products updated.

Installed:

  libxkbfile-1.1.0-1.el8.x86\_64                                                xorg-x11-apps-7.7-21.el8.x86\_64

Complete!.

1. After the installation of package, to enable X11 Forwarding, Edit the /etc/ssh/sshd\_config file and uncomment the X11 related lines.

X11Forwarding yes

X11DisplayOffset 10

X11UseLocalhost yes

Restart the ssh service once you change the value in /etc/ssh/sshd\_config

sudo service sshd restart

1. Configure DISPLAY variable.

When we run the command xclock then it can display below output. This issue occurs when DISPLAY is not correctly configured.

|  |
| --- |
| **xclock** |

|  |
| --- |
| **Error: Can’t open display: <ip address of unknown host>:0.0** |

**[user01@onrequestlab~]$ echo $DISPLAY**

**[user01@onrequestlab ~]$ export DISPLAY='localhost:10.0'**

**[user01@onrequestlab ~]$ echo $DISPLAY**

**localhost:10.0**

**[user01@onrequest ~]$ xauth list $DISPLAY**

**onrequestlab.com/unix:10  MIT-MAGIC-COOKIE- 321b1e2d35ca8d4ba8f2f136d73ea410**

**[user01@onrequestlab ~]$ sudo su -**

**Last login: Thu Apr 13 08:11:26 MST 2023 on pts/7**

**[root@onrequestlab ~]# xauth list $DISPLAY**

**onrequestlab.com/unix:10  MIT-MAGIC-COOKIE-1  321b1e2d35ca8d4ba8f2f136d73ea410**

**[user01@onrequestlab ~]$ sudo su -**

**Last login: Thu Apr 13 08:11:26 MST 2023 on pts/7**

**[root@onrequestlab ~]# xauth list $DISPLAY**

**-----------> No output**

**then add the below entry.**

**[root@onrequestlab ~]# xauth add onrequestlab.com/unix:11  MIT-MAGIC-COOKIE-1  321b1e2d35ca8d4ba8f2f136d73ea410**

**[root@onrequestlab ~]# su - oracle**

**Last login: Thu Apr 13 07:28:41 MST 2023 on pts/2**

**[oracle@onrequestlab ~]$ echo $DISPLAY**

**------------>No output**

**[oracle@onrequest ~]$ export DISPLAY='localhost:10.0'**

**[root@onrequestlab ~]# xauth list $DISPLAY**

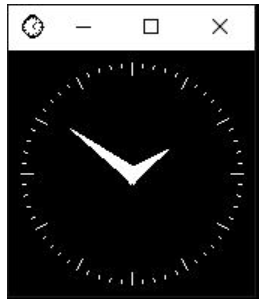
**-----------> No output**

**then add the below entry.**

**[oracle@onrequest ~]$ xauth add onrequest.unikix.com/unix:10  MIT-MAGIC-COOKIE-1  321b1e2d35ca8d4ba8f2f136d73ea410**

**[oracle@onrequest ~]$ xclock**

**Warning: Missing charsets in String to FontSet conversion**



Note : incase you see multiple xauth entries and want to remove it then use below syntax

**xauth list | cut -f1 -d\  | xargs -i xauth remove {}**