

# Linux Screen

Apr 2020

## Overview

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When using Linux via SSH, if you get disconnected then you cannot rejoin that session. So if you were doing something like downloading a large file, then you can not reconnect to see the progress (the download would have stopped anyway once you disconnected).

This guide is based around [CentOS7](#) (or RedHat).

**Screen** is a 'Terminal Multiplexer' which means you can start **Screen** and then open terminal windows. These windows will stay open if you disconnect and you can reconnect with them when you next join.

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## Check for Screen

Sounds great, do I have **Screen**?

From a terminal in Linux, enter the following:

```
screen --version
```

If you see a version number in the format **Screen version 4.01.00devel (GNU) 2-May-06**, you are good to go, check out the section Using Screen. if you see the message **screen: command not found** then you will need to install **screen**.

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## Installing Screen

To install screen, open a terminal window and use the following command:

```
sudo yum install screen -y
```

You will see something very similar to the following:

```
sudo yum install screen -y
Loaded plugins: fastestmirror
Determining fastest mirrors
epel/x86_64/metalink
| 8.3 kB  00:00:00
* base: centos.mirroring.pulsant.co.uk
* epel: ftp.nluug.nl
* extras: mirror.mhd.uk.as44574.net
* updates: mirror.vorboss.net
base
| 3.6 kB  00:00:00
epel
| 4.7 kB  00:00:00
extras
| 2.9 kB  00:00:00
updates
| 2.9 kB  00:00:00
(1/7): base/7/x86_64/group_gz
| 153 kB  00:00:00
(2/7): extras/7/x86_64/primary_db
| 190 kB  00:00:00
(3/7): updates/7/x86_64/primary_db
```

```
| 120 kB  00:00:00
(4/7): epel/x86_64/updateinfo
| 1.0 MB  00:00:00
(5/7): epel/x86_64/group_gz
| 95 kB  00:00:00
(6/7): base/7/x86_64/primary_db
| 6.1 MB  00:00:01
(7/7): epel/x86_64/primary_db
| 6.8 MB  00:00:02
Resolving Dependencies
--> Running transaction check
--> Package screen.x86_64 0:4.1.0-0.25.20120314git3c2946.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
=====
Package Arch Version
Repository Size
=====
=====
Installing:
screen x86_64 4.1.0-0.25.20120314git3c2946.el7
base 552 k
Transaction Summary
=====
=====
Install 1 Package

Total download size: 552 k
Installed size: 914 k
Downloading packages:
screen-4.1.0-0.25.20120314git3c2946.el7.x86_64.rpm
| 552 kB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : screen-4.1.0-0.25.20120314git3c2946.el7.x86_64
1/1
  Verifying  : screen-4.1.0-0.25.20120314git3c2946.el7.x86_64
1/1

Installed:
screen.x86_64 0:4.1.0-0.25.20120314git3c2946.el7

Complete!
```

## Using Screen

To start **screen**, simply use:

```
screen
```

You can check what screen commands are available by: Press **CTRL+a** (let go of all keys) then hit **?**

| Screen key bindings, page 1 of 1. |       |       |      |                                  |      |            |          |
|-----------------------------------|-------|-------|------|----------------------------------|------|------------|----------|
|                                   |       |       |      | Command key: ^A    Literal ^A: a |      |            |          |
| break                             | ^B b  | flow  | ^F f | lockscreen                       | ^X x | pow_break  | B screen |
| ^C c                              | width | W     |      |                                  |      |            |          |
| clear                             | C     | focus | ^I   | log                              | H    | pow_detach | D select |

```

'      windows      ^W w
colon  :      hardcopy h      login      L      prev      ^H ^P p ^? silence
_      wrap      ^R r
copy   ^[ [      help      ?      meta      a      quit      \      split
S      writebuf  >
detach ^D d      history  { }      monitor  M      readbuf  <      suspend
^Z z    xoff      ^S s
digraph ^V      info      i      next      ^@ ^N sp n redisplay ^L l      time
^T t    xon      ^Q q
displays *      kill      K k      number  N      remove  X      title
A
dumftermcap .      lastmsg  ^M m      only      Q      removebuf =      vbell
^G
fit     F      license  ,      other      ^A      reset      Z      version
v

^]  paste .
"   windowlist -b
-   select -
0   select 0
1   select 1
2   select 2
3   select 3
4   select 4
5   select 5
6   select 6
7   select 7
8   select 8
9   select 9
I   login on
O   login off
]   paste .
|   split -v
:kB: focus prev

```

Starting a “Named Session”

You can name your screen sessions, which makes it easier to find the one you were in, you can do this using the following syntax:

```
screen -S session_name
```

From:

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