

Forum:[Hack Forums](#)

Thread: [Installing linux \(with DE and VNC\) on VPS, startx](#)

Account of the Gods - November 12, 2016, 3:49 am

Right so I've spend many hours trying to install Gnome Desktop Environment on Red Hat Linux on VPS.

Red Hat installed with one click from my web panel - cool.

Now I enter through Putty - all okay.

I see no GUI, I tried many tutorials to install Gnome, and they didn't work, the output of command startx is always the same.

However if I'm right there's a requirement for having VNC installed to run GUI on a VPS Linux.

I failed installing it.

That's the output of startx command.

Any help?

PS. I've installed Windows before on this VPS and it worked fine, just too hard on resources.

Mr. Robot - November 12, 2016, 3:54 am

startx /usr/bin/gnome-session

Account of the Gods - November 12, 2016, 4:33 am

(Nov 12, 2016 04:54 AM)Mr. Robot Wrote: [CITE](#) startx /usr/bin/gnome-session

The output of this command is pretty the same.

Spoiler ([Click to View](#))
[ec2-user@ip-172-31-43-124 ~]\$ sudo startx /usr/bin/gnome-session
xauth: file /root/.serverauth.2716 does not exist

X.Org X Server 1.17.2

Release Date: 2015-06-16

X Protocol Version 11, Revision 0

Build Operating System: 2.6.32-642.1.1.el6.x86_64

Current Operating System: Linux ip-172-31-43-124.us-west-2.compute.internal

3.10.0-514.el7.x86_64 #1 SMP Wed Oct 19 11:24:13 EDT 2016 x86_64

Kernel command line: BOOT_IMAGE=/boot/vmlinuz-3.10.0-514.el7.x86_64

root=UUID=3ed41454-00c8-4803-bf61-2ee88aa54dbf ro console=ttyS0,115200n8 console=tty0

net.ifnames=0 crashkernel=auto LANG=en_US.UTF-8

Build Date: 08 August 2016 11:53:03AM

Build ID: xorg-x11-server 1.17.2-22.el7

Current version of pixman: 0.34.0

Before reporting problems, check <http://wiki.x.org>

to make sure that you have the latest version.

Markers: (--) probed, (**) from config file, (==) default setting,

(++) from command line, (!!) notice, (II) informational,

(WW) warning, (EE) error, (NI) not implemented, (??) unknown.

(==) Log file: "/var/log/Xorg.1.log", Time: Sat Nov 12 07:31:35 2016

(==) Using config directory: "/etc/X11/xorg.conf.d"
(==) Using system config directory "/usr/share/X11/xorg.conf.d"
pci id for fd 12: 1013:00b8, driver (null)
EGL_MESA_drm_image required.
gnome-session-is-accelerated: llvmpipe detected.

Lorenzon - November 12, 2016, 4:34 am

Hi, could you try to run this as root?
chmod 4755 /usr/bin/Xorg

Account of the Gods - November 12, 2016, 4:35 am

(Nov 12, 2016 05:34 AM)Lorenzon Wrote: [\[CITE\]](#) Hi, could you try to run this as root?
chmod 4755 /usr/bin/Xorg
I just did, no error, but nothing changed.

Lorenzon - November 12, 2016, 4:39 am

(Nov 12, 2016 05:35 AM)aidenhera Wrote: [\[CITE\]](#) I just did, no error, but nothing changed.
Hmm try:
sudo apt-get install --reinstall xorg
sudo rm /home/YOURUSERNAME/.XAuthority*
Try to reboot after that

Account of the Gods - November 12, 2016, 4:49 am

(Nov 12, 2016 05:39 AM)Lorenzon Wrote: [\[CITE\]](#) Hmm try:
sudo apt-get install --reinstall xorg
sudo rm /home/YOURUSERNAME/.XAuthority*
Try to reboot after that
isnt apt-get used on debian-based systems

Lorenzon - November 12, 2016, 4:55 am

(Nov 12, 2016 05:49 AM)aidenhera Wrote: [\[CITE\]](#) isnt apt-get used on debian-based systems
Oh sorry lol..
yum reinstall "@X Window System" "@GNOME Desktop Environment"

Account of the Gods - November 12, 2016, 5:01 am

(Nov 12, 2016 05:55 AM)Lorenzon Wrote: [\[CITE\]](#) Oh sorry lol..
yum reinstall "@X Window System" "@GNOME Desktop Environment"
Spoiler ([Click to View](#))

[ec2-user@ip-172-31-43-124 ~]\$ sudo yum reinstall "@X Window System" "@GNOME Desktop Environment"

Loaded plugins: amazon-id, langpacks, rhui-lb, search-disabled-repos

rhui-REGION-client-config-server-7	2.9 kB	00:00
rhui-REGION-rhel-server-releases	3.5 kB	00:00
rhui-REGION-rhel-server-rh-common	3.8 kB	00:00

No group named GNOME Desktop Environment exists

Resolving Dependencies

--> Running transaction check

---> Package glx-utils.x86_64 0:8.2.0-3.el7 will be reinstalled

---> Package mesa-dri-drivers.x86_64 0:11.2.2-2.20160614.el7 will be reinstalled

---> Package plymouth-system-theme.x86_64 0:0.8.9-0.26.20140113.el7 will be reinstalled

---> Package spice-vdagent.x86_64 0:0.14.0-14.el7 will be reinstalled

---> Package xorg-x11-drivers.x86_64 0:7.7-6.el7 will be reinstalled

---> Package xorg-x11-server-Xorg.x86_64 0:1.17.2-22.el7 will be reinstalled
---> Package xorg-x11-utils.x86_64 0:7.5-14.el7 will be reinstalled
---> Package xorg-x11-xauth.x86_64 1:1.0.9-1.el7 will be reinstalled
---> Package xorg-x11-xinit.x86_64 0:1.3.4-1.el7 will be reinstalled
---> Package xvattr.x86_64 0:1.3-27.el7 will be reinstalled
--> Finished Dependency Resolution

Dependencies Resolved

=====

Package	Arch	Version	Repository	Size
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=====

Reinstalling:

glx-utils	x86_64	8.2.0-3.el7	rhui-REGION-rhel-server-releases	32 k
mesa-dri-drivers	x86_64	11.2.2-2.20160614.el7	rhui-REGION-rhel-server-releases	5.1 M
plymouth-system-theme	x86_64	0.8.9-0.26.20140113.el7	rhui-REGION-rhel-server-releases	31 k
spice-vdagent	x86_64	0.14.0-14.el7	rhui-REGION-rhel-server-releases	69 k
xorg-x11-drivers	x86_64	7.7-6.el7	rhui-REGION-rhel-server-releases	8.9 k
xorg-x11-server-Xorg	x86_64	1.17.2-22.el7	rhui-REGION-rhel-server-releases	1.5 M
xorg-x11-utils	x86_64	7.5-14.el7	rhui-REGION-rhel-server-releases	111 k
xorg-x11-xauth	x86_64	1:1.0.9-1.el7	rhui-REGION-rhel-server-releases	30 k
xorg-x11-xinit	x86_64	1.3.4-1.el7	rhui-REGION-rhel-server-releases	58 k
xvattr	x86_64	1.3-27.el7	rhui-REGION-rhel-server-releases	23 k

Transaction Summary

=====

Reinstall 10 Packages

Total download size: 6.9 M

Installed size: 20 M

Is this ok [y/d/N]: y

Downloading packages:

(1/10): glx-utils-8.2.0-3.el7.x86_64.rpm	32 kB	00:00
(2/10): mesa-dri-drivers-11.2.2-2.20160614.el7.x86_64.rpm	5.1 MB	00:00
(3/10): spice-vdagent-0.14.0-14.el7.x86_64.rpm	69 kB	00:00
(4/10): plymouth-system-theme-0.8.9-0.26.20140113.el7.x86_64.rpm	31 kB	00:00
(5/10): xorg-x11-drivers-7.7-6.el7.x86_64.rpm	8.9 kB	00:00
(6/10): xorg-x11-server-Xorg-1.17.2-22.el7.x86_64.rpm	1.5 MB	00:00
(7/10): xorg-x11-utils-7.5-14.el7.x86_64.rpm	111 kB	00:00
(8/10): xorg-x11-xinit-1.3.4-1.el7.x86_64.rpm	58 kB	00:00
(9/10): xorg-x11-xauth-1.0.9-1.el7.x86_64.rpm	30 kB	00:00
(10/10): xvattr-1.3-27.el7.x86_64.rpm	23 kB	00:00

```
Total                                     6.9 MB/s | 6.9 MB  00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : 1:xorg-x11-xauth-1.0.9-1.el7.x86_64          1/10
Installing : xorg-x11-server-Xorg-1.17.2-22.el7.x86_64    2/10
Installing : xorg-x11-drivers-7.7-6.el7.x86_64           3/10
Installing : xorg-x11-xinit-1.3.4-1.el7.x86_64           4/10
Installing : mesa-dri-drivers-11.2.2-2.20160614.el7.x86_64 5/10
Installing : xorg-x11-utils-7.5-14.el7.x86_64            6/10
Installing : xvattr-1.3-27.el7.x86_64                    7/10
Installing : spice-vdagent-0.14.0-14.el7.x86_64          8/10
Installing : plymouth-system-theme-0.8.9-0.26.20140113.el7.x86_64 9/10
Installing : glx-utils-8.2.0-3.el7.x86_64               10/10
Verifying : glx-utils-8.2.0-3.el7.x86_64                1/10
Verifying : xorg-x11-drivers-7.7-6.el7.x86_64           2/10
Verifying : xorg-x11-server-Xorg-1.17.2-22.el7.x86_64   3/10
Verifying : plymouth-system-theme-0.8.9-0.26.20140113.el7.x86_64 4/10
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```

Installed:

```
glx-utils.x86_64 0:8.2.0-3.el7
mesa-dri-drivers.x86_64 0:11.2.2-2.20160614.el7
plymouth-system-theme.x86_64 0:0.8.9-0.26.20140113.el7
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xorg-x11-xinit.x86_64 0:1.3.4-1.el7
xvattr.x86_64 0:1.3-27.el7
```

Complete!

thats the output, however startx still displays same issues

Is that cause of Putty or VPS maybe?

Lorenzon - November 12, 2016, 5:08 am

(Nov 12, 2016 06:01 AM)aidenhera Wrote: [\[CITE\]](#) Spoiler [\(Click to View\)](#)

```
[ec2-user@ip-172-31-43-124 ~]$ sudo yum reinstall "@X Window System" "@GNOME Desktop Environment"
```

Loaded plugins: amazon-id, langpacks, rhui-lb, search-disabled-repos

```
rhui-REGION-client-config-server-7          | 2.9 kB  00:00
rhui-REGION-rhel-server-releases            | 3.5 kB  00:00
```

rhui-REGION-rhel-server-rh-common | 3.8 kB 00:00

No group named GNOME Desktop Environment exists

Resolving Dependencies

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Dependencies Resolved

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mesa-dri-drivers	x86_64	11.2.2-2.20160614.el7	rhui-REGION-rhel-server-releases	5.1 M
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spice-vdagent	x86_64	0.14.0-14.el7	rhui-REGION-rhel-server-releases	69 k
---------------	--------	---------------	----------------------------------	------

xorg-x11-drivers	x86_64	7.7-6.el7	rhui-REGION-rhel-server-releases	8.9 k
------------------	--------	-----------	----------------------------------	-------

xorg-x11-server-Xorg	x86_64	1.17.2-22.el7	rhui-REGION-rhel-server-releases	1.5 M
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xorg-x11-utils	x86_64	7.5-14.el7	rhui-REGION-rhel-server-releases	111 k
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xorg-x11-xauth	x86_64	1:1.0.9-1.el7	rhui-REGION-rhel-server-releases	30 k
----------------	--------	---------------	----------------------------------	------

xorg-x11-xinit	x86_64	1.3.4-1.el7	rhui-REGION-rhel-server-releases	58 k
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```
(3/10): spice-vdagent-0.14.0-14.el7.x86_64.rpm      | 69 kB  00:00
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```

Total 6.9 MB/s | 6.9 MB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

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Installed:

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xorg-x11-server-Xorg.x86_64 0:1.17.2-22.el7
xorg-x11-utils.x86_64 0:7.5-14.el7
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xorg-x11-xinit.x86_64 0:1.3.4-1.el7
xvattr.x86_64 0:1.3-27.el7
```

Complete!

thats the output, however startx still displays same issues

Is that cause of Putty or VPS maybe?

Pretty sure it's because you're running Putty.

Follow this guide to install TigerVNC and try to connect with a VNC client instead

https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/System_Administrators_Guide/ch-TigerVNC.html

Account of the Gods - November 12, 2016, 5:19 am

(Nov 12, 2016 06:08 AM)Lorenzon Wrote: [\[CITE\]](#) Pretty sure it's because you're running Putty.

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https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/System_Administrators_Guide/ch-TigerVNC.html

I've followed this guide and things failed at step:

11.1.3. Starting VNC Server

I got an error after command:

```
systemctl start vncserver@:display_number.service
```

also Tigervnc is being launched from putty isnt it?

Lorenzon - November 12, 2016, 5:20 am

(Nov 12, 2016 06:19 AM)aidenhera Wrote: [\[CITE\]](#) I've followed this guide and things failed at step:

11.1.3. Starting VNC Server

I got an error after command:

```
systemctl start vncserver@:display_number.service
```

What error does it give you?

And regarding Putty/VNC, you need to enable X11 forwarding.

Expand the SSH tree by clicking the + in the connection window.

Select X11.

Check Enable X11 Forwarding.

Account of the Gods - November 12, 2016, 6:41 am

Here its like:

Connection

SSH

Kex

Cipher

Tunnels

<https://i.imgur.com/ZxCWufQ.jpg> - connection tab

<https://i.imgur.com/52JdyrC.jpg> - ssh tab

<https://i.imgur.com/bVBg6dP.jpg> - kex tab

<https://i.imgur.com/1xP9fyB.jpg> - cipher tab

<https://i.imgur.com/h6d1hWn.jpg> - tunnels tab

No x11 forwarding here im afraid.

And thats output of command:

<https://i.imgur.com/GtKR1M5.jpg>

quick update, i installed xming and xlaunch, it showed me one connection in tray when another console showed up, so i had 2 consoles, awww maybe theres something wrong with red hat?

Zesh - November 12, 2016, 3:57 pm

You can't run an X session inside of an SSH client.

I've had good luck with TightVNCServer. Here's a guide for Debian (Just replace apt commands with the yum equivalent (or is dnf the default now? should redirect with yum2dnf)

<https://www.digitalocean.com/community/tutorials/how-to-set-up-vnc-server-on-debian-8>

If any of the packages don't install you can google "packagename Red Hat"

And i wouldn't recommend GNOME on a VPS - It takes quite a bit of processing and memory, and will bog down resources that could better be used on tasks on the server.

Openbox, ICEWM, Fluxbox, and LXDE are good alternatives for a VPS . If it were a dedi, GNOME would be more appropriate IMO.

Account of the Gods - November 13, 2016, 4:09 am

(Nov 12, 2016 04:57 PM)Zesh Wrote: [\[CITE\]](#) You can't run an X session inside of an SSH client.

I've had good luck with TightVNCServer. Here's a guide for Debian (Just replace apt commands with the yum equivalent (or is dnf the default now? should redirect with yum2dnf)

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Openbox, ICEWM, Fluxbox, and LXDE are good alternatives for a VPS . If it were a dedi, GNOME would be more appropriate IMO.

HOLY.

BIG THANKS TO THIS GUY!

I just gave up on redhat and installed debian instead.

SOMEHOW it worked! i couldnt connect at first through it, then i just ticked random settings in putty and it worked just wow.

thanks mate!!!