Subject: xorg installation problem in virtual machine (Cannot open tty0)
Posted by rverlind on Tue, 27 Jun 2006 15:19:17 GMT

I am using the OpenVZ 2.6.16-026test012 kernel patch on a x86_64 Debian host system.

When trying to run Xorg from within an Debian Unstable virtual machine I get the following error (Complete Xorg log at the bottom of the message) :

Quote:
Fatal server error:
xf86OpenConsole: Cannot open /dev/tty0 (No such file or directory)

(WW) xf86CloseConsole: KDSETMODE failed: Bad file descriptor
(WW) xf86CloseConsole: VT_GETMODE failed: Bad file descriptor

When I look for the different TTY devices I get the following (ls -al /dev/tty*) and I can not change the permission on tty0.

Quote:
crw-rw-rw- 1 root tty 5, 0 Jun 27 15:05 /dev/tty
crw-r--r-- 1 root root 4, 0 Jun 26 13:48 /dev/tty0

Can anybody give me a hint on how to proceed getting xorg working inside the virtual machine?

regards,
RUben

Quote:
X Window System Version 7.0.0
Release Date: 21 December 2005
X Protocol Version 11, Revision 0, Release 7.0
Build Operating System:Linux 2.6.16-1-vserver-amd64-k8 x86_64
Current Operating System: Linux STARIntra204 2.6.16-026test012 #1 SMP Mon May 15 15:36:29 CEST 2006 x86_64
Build Date: 16 March 2006
     Before reporting problems, check http://wiki.x.org
     to make sure that you have the latest version.
Module Loader present
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.0.log", Time: Tue Jun 27 14:42:33 2006
(==) Using config file: "/etc/X11/xorg.conf"

(==) ServerLayout "Default Layout"
(**) |-->Screen "Screen0" (0)
(**) | |-->Monitor "Monitor0"
(**) | |-->Device "Videocard0"
(**) |-->Input Device "Mouse0"
(**) |-->Input Device "Keyboard0"
(**) Option "XkbModel" "pc105"
(**) XKB: model: "pc105"
(**) Option "XkbLayout" "be"
(**) XKB: layout: "be"
(==) Keyboard: CustomKeycode disabled
(**) FontPath set to " unix/:7100,/usr/share/fonts/X11/misc/,/usr/share/fonts/X11/T
TF/,/usr/share/fonts/X11/OTF,/usr/share/fonts/X11/Type1/,/us
r/share/fonts/X11/CID/,/usr/share/fonts/X11/100dpi/,/usr/sha re/fonts/X11/75dpi/ "
(==) RgbPath set to "/usr/share/X11/rgb"
(==) ModulePath set to "/usr/lib/xorg/modules"
(II) Module ABI versions:
        X.Org ANSI C Emulation: 0.2
        X.Org Video Driver: 0.8
        X.Org XInput driver : 0.5
        X.Org Server Extension : 0.2
        X.Org Font Renderer : 0.4
(II) Loader running on linux
(II) LoadModule: "bitmap"
(II) Loading /usr/lib/xorg/modules/fonts/libbitmap.so
(II) Module bitmap: vendor="X.Org Foundation"
        compiled for 7.0.0, module version = 1.0.0
        Module class: X.Org Font Renderer
        ABI class: X.Org Font Renderer, version 0.4
(II) Loading font Bitmap
(II) LoadModule: "pcidata"
(II) Loading /usr/lib/xorg/modules/libpcidata.so
(II) Module pcidata: vendor="X.Org Foundation"
        compiled for 7.0.0, module version = 1.0.0
        ABI class: X.Org Video Driver, version 0.8

Fatal server error:
xf86OpenConsole: Cannot open /dev/tty0 (No such file or directory)

(WW) xf86CloseConsole: KDSETMODE failed: Bad file descriptor
(WW) xf86CloseConsole: VT_GETMODE failed: Bad file descriptor

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Subject: Re: xorg installation problem in virtual machine (Cannot open tty0)
Posted by rverlind on Wed, 28 Jun 2006 14:30:18 GMT

Just to be clear, I have read the following page on the wiki :
http://wiki.openvz.org/X_inside_VE

The difference is that I need to start X within the virtual machine to enable remote access using the nx (http://www.nomachine.com) libraries.

Ruben

Subject: Re: xorg installation problem in virtual machine (Cannot open tty0)
Posted by dev on Wed, 28 Jun 2006 18:12:26 GMT

from your quote it follows that your X is trying to access hardware, which looks really strange for me.

1. are you sure, that NX does the same as Xvnc? it should not require any direct hardware including tty's then. Also this should imply some limitations imho.

2. You can try to grant access to /dev/ttyX devices to VE. To do so, use:

host# vzctl set VEID --devnodes /dev/tty:rw
host# vzctl set VEID --devnodes /dev/tty0:rw

3. I recommend to update to 014 kernel It should be much better and more stable.

4. you can try to give me an access and instruction on what you run/how to connect etc. I can try to help a bit.

Subject: Re: xorg installation problem in virtual machine (Cannot open tty0)
Posted by rverlind on Thu, 29 Jun 2006 09:17:27 GMT

1. I believe NX really needs to start up the entire X environment on the server. As if you were really working on a screen and keyboard attached to that machine. So for the moment I actually try to start the X server using GDM.

2. Next week (after my short holiday   ) I will try to grant the VE access to the /dev/tty0 device the way you describe. I assume it is possible to grant multiple VEs access to the the hardware this way.

3. As for upgrading to test014, this will be also done after my holiday. Just need to remember how to get the 3ware 9550X-8 raid module in place to boot correctly.

4. I will first try to get it working myself. Need to learn a little bit more on OpenVZ VEs, X in OpenVZ VEs and X in general anyway. If I can not solve this problem anytime soon I will gladly accept your offer.

thx for the hints,
Ruben

Subject: Re: xorg installation problem in virtual machine (Cannot open tty0)
Posted by kjo.hansi.glaz on Sat, 27 Dec 2008 02:18:27 GMT
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vzctl set <VEID> --devices c:4:7:rw --save
Makes tty7 working, but there is then the another problem
X :0 vt7
outputs
xf86PciVideoInfo is not set
Could not get primary PCI info
Aborted