
Subject: Configure virtualized /proc
Posted by [kjo.hansi.glaz](#) on Sun, 28 Dec 2008 16:41:04 GMT
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Hi !

I'm trying to find out how to add entries in /proc of an openvz container, and I found no documentation at all. A only find information on adding /dev entries (with vzctl --devnodes).

What I'm tring to do is to add /proc/bus/pci in a container. Is it possible ?

Thanks by advance !

Subject: Re: Configure virtualized /proc
Posted by [maratrus](#) on Mon, 29 Dec 2008 08:40:48 GMT
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Hello,

why do you need to get such information from inside the VE?

Subject: Re: Configure virtualized /proc
Posted by [kjo.hansi.glaz](#) on Mon, 29 Dec 2008 16:49:07 GMT
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Quote:why do you need to get such information from inside the VE?
Because I'd like tu run X. Please don't tell me it's stupid, I know it could be, I just wanna do it fore some reason. If that's a problem for you just don't waste your time to answer.

I hope anyway that some people will answer me !

Thanks by advance.

Subject: Re: Configure virtualized /proc
Posted by [maratrus](#) on Mon, 29 Dec 2008 17:03:26 GMT
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Please, look at this page. Hope it could be helpful

http://wiki.openvz.org/X_inside_VE

Subject: Re: Configure virtualized /proc

Posted by [kjo.hansi.glaz](#) on Mon, 29 Dec 2008 20:49:52 GMT

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Thanks, but that was where I began and it does NOT cover the topic on how to run an X server inside a VE, it only covers "ways to run X applications inside your container" using another X server for the display.

I investigate and I really think that I miss /proc/bus/pci/02/00.0 inside the VE.

Subject: Re: Configure virtualized /proc

Posted by [maratrus](#) on Tue, 30 Dec 2008 09:48:01 GMT

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Hello,

the main problem is to achieve hardware from inside the VE.

Why don't you start additional X server inside VE0 (or inside external machine) and X applications (or complete X environment) inside VE?

Could you possibly describe what has been done?

What kind of capabilities did you grant to VE, what kind of devices you had to create? What kind of xorg configuration file do you use?

Do you think that /proc/bus/pci/02/00.0 would be sufficient? Could you please show the output while X server is starting inside VE?

Subject: Re: Configure virtualized /proc

Posted by [maratrus](#) on Tue, 30 Dec 2008 11:23:32 GMT

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Hello,

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Could you possibly describe what has been done?

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Do you think that /proc/bus/pci/02/00.0 would be sufficient? Could you please show the output while X server is starting inside VE?

Hi !

Quote:the main problem is to achieve hardware from inside the VE.
Why don't you start additional X server inside VE0 (or inside external machine) and X applications (or complete X environment) inside VE?

I want to set up a machine with a LAN server, an internet server and a desktop. So I use openvz to separate the LAN server and the internet server and I thought it would be nice to separate also the desktop. I know that I can run the X server inside VE0 and X environnement inside VE, but I thought it would be nice to have no big application running on VE0. Perhaps that is a stupid assumption, given that giving a VE enough capabilities to run X is perhaps not better than running X inside VE0. Anyway I began to investigate and would have been happy to find a solution.

Googeling the web I found nobody successfully running X server on openvz, but lots of people doing that on vservers, so I think it's possible.

Quote:Could you possibly describe what has been done?
What kind of capabilities did you grant to VE, what kind of devices you had to create? What kind of xorg configuration file do you use?

What I tried on a testing machine (on which X runs also on VE0 and which is NOT my server) :

```
sudo aptitude install xserver-xorg udev_  
vzctl set <VEID> --capability sys_rawio:on --save  
vzctl restart <VEID>
```

```
vzctl set <VEID> --devices c:1:1:rw --save  
vzctl set <VEID> --devnodes mem:rw --save  
vzctl set <VEID> --devices c:4:0:rw --save  
vzctl set <VEID> --devnodes tty0:rw --save  
vzctl set <VEID> --devices c:4:8:rw --save  
vzctl set <VEID> --devnodes tty8:rw --save  
vzctl set <VEID> --devices c:10:1:rw --save  
vzctl set <VEID> --devnodes psaux:rw --save  
vzctl set <VEID> --devices c:13:63:rw --save  
vzctl set <VEID> --devnodes input/mice:rw --save
```

A also tried these, which didn't changed anything, then I removed them :

```
vzctl set <VEID> --capability ipc_lock:on --save  
vzctl set <VEID> --capability ipc_owner:on --save  
vzctl set <VEID> --capability sys_admin:on --save  
vzctl set <VEID> --capability net_admin:on --save
```

```
vzctl set <VEID> --capability net_raw:on --save
vzctl set <VEID> --capability mknod:on --save
vzctl set <VEID> --devices c:10:175:rw --save
vzctl set <VEID> --devnodes agpgart:rw --save
```

The Xorg.conf I use on the machine on which I run the tests (which have Xorg in VE0) is nearly exactly the same that works on VE0:

```
# xorg.conf (xorg X Window System server configuration file)
#
# This file was generated by dexconf, the Debian X Configuration tool, using
# values from the debconf database.
#
# Edit this file with caution, and see the xorg.conf manual page.
# (Type "man xorg.conf" at the shell prompt.)
#
# This file is automatically updated on xserver-xorg package upgrades *only*
# if it has not been modified since the last upgrade of the xserver-xorg
# package.
#
# If you have edited this file but would like it to be automatically updated
# again, run the following command:
#  sudo dpkg-reconfigure -phigh xserver-xorg
```

```
Section "ServerFlags"
    Option "AllowMouseOpenFail" "true"
EndSection
```

```
Section "Files"
EndSection
```

```
Section "InputDevice"
    Identifier "Generic Keyboard"
    Driver "kbd"
    Option "CoreKeyboard"
    Option "XkbRules" "xorg"
    Option "XkbModel" "latitude"
    Option "XkbLayout" "fr"
    Option "XkbVariant" "oss"
EndSection
```

```
Section "InputDevice"
    Identifier "Configured Mouse"
    Driver "mouse"
    Option "CorePointer"
    Option "Device" "/dev/input/mice"
    Option "Protocol" "ImPS/2"
```

Option "Emulate3Buttons" "true"
EndSection

Section "InputDevice"
Identifier "Synaptics Touchpad"
Driver "synaptics"
Option "SendCoreEvents" "true"
Option "Device" "/dev/psaux"
Option "Protocol" "auto-dev"
Option "HorizScrollDelta" "0"
EndSection

Section "Device"
Identifier "ATI Technologies Inc Radeon Mobility M7 LW [Radeon Mobility 7500]"
Driver "radeon"
BusID "PCI:1:0:0"
Option "XAANoOffscreenPixmaps" "true"
Option "AddARGBGLXVisuals" "true"
Option "EnablePageFlip" "1"
Option "AGPMode" "4"
Option "DynamicClocks" "true"
Option "AccelMethod" "EXA"
EndSection

Section "Monitor"
Identifier "Écran générique"
Option "DPMS"
EndSection

Section "Screen"
Identifier "Default Screen"
Device "ATI Technologies Inc Radeon Mobility M7 LW [Radeon Mobility 7500]"
Monitor "Écran générique"
DefaultDepth 24
SubSection "Display"
Modes "1024x768"
EndSubSection
EndSection

Section "ServerLayout"
Identifier "Default Layout"
Screen "Default Screen"
InputDevice "Generic Keyboard"
InputDevice "Configured Mouse"
InputDevice "Synaptics Touchpad"
EndSection

Section "Extensions"

Option "Composite" "enable"
EndSection

Quote:Do you think that /proc/bus/pci/02/00.0 whould be sufficient? Could you please show the output while X server is starting inside VE?

I try to start X with :
X :0 vt8
And I get :
testvz:/# X :0 vt8

X.Org X Server 1.4.2
Release Date: 11 June 2008
X Protocol Version 11, Revision 0
Build Operating System: Linux Debian (xorg-server 2:1.4.2-9)
Current Operating System: Linux testvz 2.6.26-1-openvz-686 #1 SMP Mon Dec 15 20:27:00 UTC 2008 i686
Build Date: 15 November 2008 05:39:59PM

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 Dec 30 11:11:51 2008
(==) Using config file: "/etc/X11/xorg.conf"
(EE) No devices detected.

Fatal server error:
no screens found

The my Xorg.0.log is :

X.Org X Server 1.4.2
Release Date: 11 June 2008
X Protocol Version 11, Revision 0
Build Operating System: Linux Debian (xorg-server 2:1.4.2-9)
Current Operating System: Linux testvz 2.6.26-1-openvz-686 #1 SMP Mon Dec 15 20:27:00 UTC 2008 i686
Build Date: 15 November 2008 05:39:59PM

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 Dec 30 11:11:51 2008
(==) Using config file: "/etc/X11/xorg.conf"
(==) ServerLayout "Default Layout"
(**) |-->Screen "Default Screen" (0)
(**) | |-->Monitor "Écran générique"
(**) | |-->Device "ATI Technologies Inc Radeon Mobility M7 LW [Radeon Mobility 7500]"
(**) |-->Input Device "Generic Keyboard"
(**) |-->Input Device "Configured Mouse"
(**) |-->Input Device "Synaptics Touchpad"
(**) Option "AllowMouseOpenFail" "true"
(==) Automatically adding devices
(==) Automatically enabling devices
(WW) The directory "/usr/share/fonts/X11/cyrillic" does not exist.
Entry deleted from font path.
(WW) The directory "/usr/share/fonts/X11/100dpi/" does not exist.
Entry deleted from font path.
(WW) The directory "/usr/share/fonts/X11/75dpi/" does not exist.
Entry deleted from font path.
(WW) The directory "/usr/share/fonts/X11/Type1" does not exist.
Entry deleted from font path.
(WW) The directory "/usr/share/fonts/X11/100dpi" does not exist.
Entry deleted from font path.
(WW) The directory "/usr/share/fonts/X11/75dpi" does not exist.
Entry deleted from font path.
(WW) The directory "/var/lib/defoma/x-ttcidfont-conf.d/dirs/TrueType" does not exist.
Entry deleted from font path.
(==) FontPath set to:
/usr/share/fonts/X11/misc
(==) RgbPath set to "/etc/X11/rgb"
(==) ModulePath set to "/usr/lib/xorg/modules"
(**) Extension "Composite" is enabled
(WW) Open ACPI failed (/var/run/acpid.socket) (No such file or directory)
(II) No APM support in BIOS or kernel
(II) Loader magic: 0x81e38a0
(II) Module ABI versions:
X.Org ANSI C Emulation: 0.3
X.Org Video Driver: 2.0
X.Org XInput driver : 2.0
X.Org Server Extension : 0.3
X.Org Font Renderer : 0.5
(II) Loader running on linux
(II) LoadModule: "pcidata"
(II) Loading /usr/lib/xorg/modules//libpcidata.so
(II) Module pcidata: vendor="X.Org Foundation"
compiled for 1.4.2, module version = 1.0.0
ABI class: X.Org Video Driver, version 2.0

```

(++) using VT number 8

(WW) OS did not count PCI devices, guessing wildly

(II) Addressable bus resource ranges are

[0] -1 0 0x00000000 - 0xffffffff (0x0) MX[B]

[1] -1 0 0x00000000 - 0x0000ffff (0x10000) IX[B]

(II) OS-reported resource ranges:

[0] -1 0 0x00100000 - 0x3fffffff (0x3ff00000) MX[B]E(B)

[1] -1 0 0x000f0000 - 0x000fffff (0x10000) MX[B]

[2] -1 0 0x000c0000 - 0x000effff (0x30000) MX[B]

[3] -1 0 0x00000000 - 0x0009ffff (0xa0000) MX[B]

[4] -1 0 0x0000ffff - 0x0000ffff (0x1) IX[B]

[5] -1 0 0x00000000 - 0x000000ff (0x100) IX[B]

(II) OS-reported resource ranges after removing overlaps with PCI:

[0] -1 0 0x00100000 - 0x3fffffff (0x3ff00000) MX[B]E(B)

[1] -1 0 0x000f0000 - 0x000fffff (0x10000) MX[B]

[2] -1 0 0x000c0000 - 0x000effff (0x30000) MX[B]

[3] -1 0 0x00000000 - 0x0009ffff (0xa0000) MX[B]

[4] -1 0 0x0000ffff - 0x0000ffff (0x1) IX[B]

[5] -1 0 0x00000000 - 0x000000ff (0x100) IX[B]

(II) All system resource ranges:

[0] -1 0 0x00100000 - 0x3fffffff (0x3ff00000) MX[B]E(B)

[1] -1 0 0x000f0000 - 0x000fffff (0x10000) MX[B]

[2] -1 0 0x000c0000 - 0x000effff (0x30000) MX[B]

[3] -1 0 0x00000000 - 0x0009ffff (0xa0000) MX[B]

[4] -1 0 0x0000ffff - 0x0000ffff (0x1) IX[B]

[5] -1 0 0x00000000 - 0x000000ff (0x100) IX[B]

(II) LoadModule: "extmod"

(II) Loading /usr/lib/xorg/modules/extensions//libextmod.so

(II) Module extmod: vendor="X.Org Foundation"

compiled for 1.4.2, module version = 1.0.0

Module class: X.Org Server Extension

ABI class: X.Org Server Extension, version 0.3

(II) Loading extension SHAPE

(II) Loading extension MIT-SUNDRY-NONSTANDARD

(II) Loading extension BIG-REQUESTS

(II) Loading extension SYNC

(II) Loading extension MIT-SCREEN-SAVER

(II) Loading extension XC-MISC

(II) Loading extension XFree86-VidModeExtension

(II) Loading extension XFree86-Misc

(II) Loading extension XFree86-DGA

(II) Loading extension DPMS

(II) Loading extension TOG-CUP

(II) Loading extension Extended-Visual-Information

(II) Loading extension XVideo

(II) Loading extension XVideo-MotionCompensation

(II) Loading extension X-Resource


```

(II) LoadModule: "dbe"
(II) Loading /usr/lib/xorg/modules/extensions//libdbe.so
(II) Module dbe: vendor="X.Org Foundation"
    compiled for 1.4.2, module version = 1.0.0
    Module class: X.Org Server Extension
    ABI class: X.Org Server Extension, version 0.3
(II) Loading extension DOUBLE-BUFFER
(II) LoadModule: "glx"
(II) Loading /usr/lib/xorg/modules/extensions//libglx.so
(II) Module glx: vendor="X.Org Foundation"
    compiled for 1.4.2, module version = 1.0.0
    ABI class: X.Org Server Extension, version 0.3
(==) AIGLX enabled
(II) Loading extension GLX
(II) LoadModule: "freetype"
(II) Loading /usr/lib/xorg/modules//fonts/libfreetype.so
(II) Module freetype: vendor="X.Org Foundation & the After X-TT Project"
    compiled for 1.4.2, module version = 2.1.0
    Module class: X.Org Font Renderer
    ABI class: X.Org Font Renderer, version 0.5
(II) Loading font FreeType
(II) LoadModule: "record"
(II) Loading /usr/lib/xorg/modules/extensions//librecord.so
(II) Module record: vendor="X.Org Foundation"
    compiled for 1.4.2, module version = 1.13.0
    Module class: X.Org Server Extension
    ABI class: X.Org Server Extension, version 0.3
(II) Loading extension RECORD
(II) LoadModule: "dri"
(II) Loading /usr/lib/xorg/modules/extensions//libdri.so
(II) Module dri: vendor="X.Org Foundation"
    compiled for 1.4.2, module version = 1.0.0
    ABI class: X.Org Server Extension, version 0.3
(II) Loading extension XFree86-DRI
(II) LoadModule: "radeon"
(II) Loading /usr/lib/xorg/modules/drivers//radeon_drv.so
(II) Module radeon: vendor="X.Org Foundation"
    compiled for 1.4.2, module version = 4.3.0
    Module class: X.Org Video Driver
    ABI class: X.Org Video Driver, version 2.0
(II) LoadModule: "kbd"
(II) Loading /usr/lib/xorg/modules/input//kbd_drv.so
(II) Module kbd: vendor="X.Org Foundation"
    compiled for 1.4.0.90, module version = 1.3.1
    Module class: X.Org XInput Driver
    ABI class: X.Org XInput driver, version 2.0
(II) LoadModule: "mouse"
(II) Loading /usr/lib/xorg/modules/input//mouse_drv.so

```

(II) Module mouse: vendor="X.Org Foundation"
 compiled for 1.4.0.90, module version = 1.3.0
 Module class: X.Org XInput Driver
 ABI class: X.Org XInput driver, version 2.0

(II) LoadModule: "synaptics"
 (II) Loading /usr/lib/xorg/modules/input/synaptics_drv.so
 (II) Module synaptics: vendor="X.Org Foundation"
 compiled for 4.3.99.902, module version = 1.0.0
 Module class: X.Org XInput Driver
 ABI class: X.Org XInput driver, version 2.0

(II) RADEON: Driver for ATI Radeon chipsets:
 ATI Radeon Mobility X600 (M24) 3150 (PCIe), ATI FireMV 2400 (PCI),
 ATI Radeon Mobility X300 (M24) 3152 (PCIe),
 ATI FireGL M24 GL 3154 (PCIe), ATI Radeon X600 (RV380) 3E50 (PCIe),
 ATI FireGL V3200 (RV380) 3E54 (PCIe), ATI Radeon IGP320 (A3) 4136,
 ATI Radeon IGP330/340/350 (A4) 4137, ATI Radeon 9500 AD (AGP),
 ATI Radeon 9500 AE (AGP), ATI Radeon 9600TX AF (AGP),
 ATI FireGL Z1 AG (AGP), ATI Radeon 9800SE AH (AGP),
 ATI Radeon 9800 AI (AGP), ATI Radeon 9800 AJ (AGP),
 ATI FireGL X2 AK (AGP), ATI Radeon 9600 AP (AGP),
 ATI Radeon 9600SE AQ (AGP), ATI Radeon 9600XT AR (AGP),
 ATI Radeon 9600 AS (AGP), ATI FireGL T2 AT (AGP), ATI Radeon 9650,
 ATI FireGL RV360 AV (AGP), ATI Radeon 7000 IGP (A4+) 4237,
 ATI Radeon 8500 AIW BB (AGP), ATI Radeon 8500 AIW BC (AGP),
 ATI Radeon IGP320M (U1) 4336, ATI Radeon IGP330M/340M/350M (U2) 4337,
 ATI Radeon Mobility 7000 IGP 4437, ATI Radeon 9000/PRO If (AGP/PCI),
 ATI Radeon 9000 Ig (AGP/PCI), ATI Radeon X800 (R420) JH (AGP),
 ATI Radeon X800PRO (R420) JI (AGP),
 ATI Radeon X800SE (R420) JJ (AGP), ATI Radeon X800 (R420) JK (AGP),
 ATI Radeon X800 (R420) JL (AGP), ATI FireGL X3 (R420) JM (AGP),
 ATI Radeon Mobility 9800 (M18) JN (AGP),
 ATI Radeon X800 SE (R420) (AGP), ATI Radeon X800XT (R420) JP (AGP),
 ATI Radeon X850 XT (R480) (AGP), ATI Radeon X850 SE (R480) (AGP),
 ATI Radeon X850 PRO (R480) (AGP), ATI Radeon X850 XT PE (R480) (AGP),
 ATI Radeon Mobility M7 LW (AGP),
 ATI Mobility FireGL 7800 M7 LX (AGP),
 ATI Radeon Mobility M6 LY (AGP), ATI Radeon Mobility M6 LZ (AGP),
 ATI FireGL Mobility 9000 (M9) Ld (AGP),
 ATI Radeon Mobility 9000 (M9) Lf (AGP),
 ATI Radeon Mobility 9000 (M9) Lg (AGP), ATI Radeon 9700 Pro ND (AGP),
 ATI Radeon 9700/9500Pro NE (AGP), ATI Radeon 9600TX NF (AGP),
 ATI FireGL X1 NG (AGP), ATI Radeon 9800PRO NH (AGP),
 ATI Radeon 9800 NI (AGP), ATI FireGL X2 NK (AGP),
 ATI Radeon 9800XT NJ (AGP),
 ATI Radeon Mobility 9600/9700 (M10/M11) NP (AGP),
 ATI Radeon Mobility 9600 (M10) NQ (AGP),
 ATI Radeon Mobility 9600 (M11) NR (AGP),
 ATI Radeon Mobility 9600 (M10) NS (AGP),

ATI FireGL Mobility T2 (M10) NT (AGP),
ATI FireGL Mobility T2e (M11) NV (AGP), ATI Radeon QD (AGP),
ATI Radeon QE (AGP), ATI Radeon QF (AGP), ATI Radeon QG (AGP),
ATI FireGL 8700/8800 QH (AGP), ATI Radeon 8500 QL (AGP),
ATI Radeon 9100 QM (AGP), ATI Radeon 7500 QW (AGP/PCI),
ATI Radeon 7500 QX (AGP/PCI), ATI Radeon VE/7000 QY (AGP/PCI),
ATI Radeon VE/7000 QZ (AGP/PCI), ATI ES1000 515E (PCI),
ATI Radeon Mobility X300 (M22) 5460 (PCIE),
ATI Radeon Mobility X600 SE (M24C) 5462 (PCIE),
ATI FireGL M22 GL 5464 (PCIE), ATI Radeon X800 (R423) UH (PCIE),
ATI Radeon X800PRO (R423) UI (PCIE),
ATI Radeon X800LE (R423) UJ (PCIE),
ATI Radeon X800SE (R423) UK (PCIE),
ATI Radeon X800 XTP (R430) (PCIE), ATI Radeon X800 XL (R430) (PCIE),
ATI Radeon X800 SE (R430) (PCIE), ATI Radeon X800 (R430) (PCIE),
ATI FireGL V7100 (R423) (PCIE), ATI FireGL V5100 (R423) UQ (PCIE),
ATI FireGL unknown (R423) UR (PCIE),
ATI FireGL unknown (R423) UT (PCIE),
ATI Mobility FireGL V5000 (M26) (PCIE),
ATI Mobility FireGL V5000 (M26) (PCIE),
ATI Mobility Radeon X700 XL (M26) (PCIE),
ATI Mobility Radeon X700 (M26) (PCIE),
ATI Mobility Radeon X700 (M26) (PCIE),
ATI Radeon X550XTX 5657 (PCIE), ATI Radeon 9100 IGP (A5) 5834,
ATI Radeon Mobility 9100 IGP (U3) 5835,
ATI Radeon XPRESS 200 5954 (PCIE),
ATI Radeon XPRESS 200M 5955 (PCIE), ATI Radeon 9250 5960 (AGP),
ATI Radeon 9200 5961 (AGP), ATI Radeon 9200 5962 (AGP),
ATI Radeon 9200SE 5964 (AGP), ATI FireMV 2200 (PCI),
ATI ES1000 5969 (PCI), ATI Radeon XPRESS 200 5974 (PCIE),
ATI Radeon XPRESS 200M 5975 (PCIE),
ATI Radeon XPRESS 200 5A41 (PCIE),
ATI Radeon XPRESS 200M 5A42 (PCIE),
ATI Radeon XPRESS 200 5A61 (PCIE),
ATI Radeon XPRESS 200M 5A62 (PCIE),
ATI Radeon X300 (RV370) 5B60 (PCIE),
ATI Radeon X600 (RV370) 5B62 (PCIE),
ATI Radeon X550 (RV370) 5B63 (PCIE),
ATI FireGL V3100 (RV370) 5B64 (PCIE),
ATI FireMV 2200 PCIE (RV370) 5B65 (PCIE),
ATI Radeon Mobility 9200 (M9+) 5C61 (AGP),
ATI Radeon Mobility 9200 (M9+) 5C63 (AGP),
ATI Mobility Radeon X800 XT (M28) (PCIE),
ATI Mobility FireGL V5100 (M28) (PCIE),
ATI Mobility Radeon X800 (M28) (PCIE), ATI Radeon X850 5D4C (PCIE),
ATI Radeon X850 XT PE (R480) (PCIE),
ATI Radeon X850 SE (R480) (PCIE), ATI Radeon X850 PRO (R480) (PCIE),
ATI unknown Radeon / FireGL (R480) 5D50 (PCIE),

ATI Radeon X850 XT (R480) (PCIE),
ATI Radeon X800XT (R423) 5D57 (PCIE),
ATI FireGL V5000 (RV410) (PCIE), ATI Radeon X700 XT (RV410) (PCIE),
ATI Radeon X700 PRO (RV410) (PCIE),
ATI Radeon X700 SE (RV410) (PCIE), ATI Radeon X700 (RV410) (PCIE),
ATI Radeon X700 SE (RV410) (PCIE), ATI Radeon X1800,
ATI Mobility Radeon X1800 XT, ATI Mobility Radeon X1800,
ATI Mobility FireGL V7200, ATI FireGL V7200, ATI FireGL V5300,
ATI Mobility FireGL V7100, ATI Radeon X1800, ATI Radeon X1800,
ATI Radeon X1800, ATI Radeon X1800, ATI Radeon X1800,
ATI FireGL V7300, ATI FireGL V7350, ATI Radeon X1600, ATI RV505,
ATI Radeon X1300/X1550, ATI Radeon X1550, ATI M54-GL,
ATI Mobility Radeon X1400, ATI Radeon X1300/X1550,
ATI Radeon X1550 64-bit, ATI Mobility Radeon X1300,
ATI Mobility Radeon X1300, ATI Mobility Radeon X1300,
ATI Mobility Radeon X1300, ATI Radeon X1300, ATI Radeon X1300,
ATI RV505, ATI RV505, ATI FireGL V3300, ATI FireGL V3350,
ATI Radeon X1300, ATI Radeon X1550 64-bit, ATI Radeon X1300/X1550,
ATI Radeon X1600, ATI Radeon X1300/X1550, ATI Mobility Radeon X1450,
ATI Radeon X1300/X1550, ATI Mobility Radeon X2300,
ATI Mobility Radeon X2300, ATI Mobility Radeon X1350,
ATI Mobility Radeon X1350, ATI Mobility Radeon X1450,
ATI Radeon X1300, ATI Radeon X1550, ATI Mobility Radeon X1350,
ATI FireMV 2250, ATI Radeon X1550 64-bit, ATI Radeon X1600,
ATI Radeon X1650, ATI Radeon X1600, ATI Radeon X1600,
ATI Mobility FireGL V5200, ATI Mobility Radeon X1600,
ATI Radeon X1650, ATI Radeon X1650, ATI Radeon X1600,
ATI Radeon X1300 XT/X1600 Pro, ATI FireGL V3400,
ATI Mobility FireGL V5250, ATI Mobility Radeon X1700,
ATI Mobility Radeon X1700 XT, ATI FireGL V5200,
ATI Mobility Radeon X1700, ATI Radeon X2300HD,
ATI Mobility Radeon HD 2300, ATI Mobility Radeon HD 2300,
ATI Radeon X1950, ATI Radeon X1900, ATI Radeon X1950,
ATI Radeon X1900, ATI Radeon X1900, ATI Radeon X1900,
ATI Radeon X1900, ATI Radeon X1900, ATI Radeon X1900,
ATI Radeon X1900, ATI Radeon X1900, ATI Radeon X1900,
ATI AMD Stream Processor, ATI Radeon X1900, ATI Radeon X1950,
ATI RV560, ATI RV560, ATI Mobility Radeon X1900, ATI RV560,
ATI Radeon X1950 GT, ATI RV570, ATI RV570, ATI ATI FireGL V7400,
ATI RV560, ATI Radeon X1650, ATI Radeon X1650, ATI RV560,
ATI Radeon 9100 PRO IGP 7834, ATI Radeon Mobility 9200 IGP 7835,
ATI Radeon X1200, ATI Radeon X1200, ATI Radeon X1200,
ATI Radeon X1200, ATI Radeon X1200, ATI RS740, ATI RS740M, ATI RS740,
ATI RS740M, ATI Radeon HD 2900 XT, ATI Radeon HD 2900 XT,
ATI Radeon HD 2900 XT, ATI Radeon HD 2900 Pro, ATI Radeon HD 2900 GT,
ATI FireGL V8650, ATI FireGL V8600, ATI FireGL V7600, ATI RV610,
ATI Radeon HD 2400 XT, ATI Radeon HD 2400 Pro,
ATI Radeon HD 2400 PRO AGP, ATI FireGL V4000, ATI RV610,

ATI ATI Radeon HD 2350, ATI Mobility Radeon HD 2400 XT,
ATI Mobility Radeon HD 2400, ATI RADEON E2400, ATI RV610, ATI RV670,
ATI Radeon HD3870, ATI Radeon HD3850, ATI RV670,
ATI Radeon HD3870 X2, ATI FireGL V7700, ATI Radeon HD3850, ATI RV630,
ATI Mobility Radeon HD 2600, ATI Mobility Radeon HD 2600 XT,
ATI Radeon HD 2600 XT AGP, ATI Radeon HD 2600 Pro AGP,
ATI Radeon HD 2600 XT, ATI Radeon HD 2600 Pro, ATI Gemini RV630,
ATI Gemini Mobility Radeon HD 2600 XT, ATI FireGL V5600,
ATI FireGL V3600, ATI Radeon HD 2600 LE, ATI Radeon HD 3470,
ATI Radeon HD 3450, ATI Radeon HD 3430, ATI Mobility Radeon HD 3430,
ATI Mobility Radeon HD 3400 Series, ATI FireMV 2450, ATI FireMV 2260,
ATI FireMV 2260, ATI ATI Radeon HD 3600 Series,
ATI ATI Radeon HD 3650 AGP, ATI ATI Radeon HD 3600 PRO,
ATI ATI Radeon HD 3600 XT, ATI ATI Radeon HD 3600 PRO,
ATI Mobility Radeon HD 3650, ATI Mobility Radeon HD 3670,
ATI Radeon HD 3200 Graphics, ATI Radeon 3100 Graphics,
ATI Radeon HD 3200 Graphics, ATI Radeon 3100 Graphics

(II) Primary Device is: ISA

(EE) No devices detected.

Fatal server error:
no screens found

So I guessed that X didn't found PCI device. I compared strace of Xorg outside and inside openvz and I noticed that inside openvz that failed :

```
+stat0("/proc/bus/pci", 0) = -0 ENOENT (No such file or directory)
```

And I guessed (error ?) that it especially needed the PCI 1:0:0 which is the one my graphic card is on.

I think that's all...

Subject: Re: Configure virtualized /proc
Posted by [maratrus](#) on Tue, 30 Dec 2008 16:38:21 GMT
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A crazy but workable advice (I was able to run KDE environment inside VE) :

Mount /proc from HN to VE. i.e.:

```
# umount -l /vz/root/$VEID/proc  
# mount -t proc proc /vz/root/$VEID/proc
```

But seriously speaking you'd better run X server on the HN and all window stuff inside VE. It's not

a big restriction but it provides isolation.

Subject: Re: Configure virtualized /proc
Posted by [kjo.hansi.glaz](#) on Wed, 31 Dec 2008 01:25:24 GMT
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It isn't possible to configure which devices appears in a VE's proc, as it's possible to do in a VE's dev ?

Subject: Re: Configure virtualized /proc
Posted by [januszzz](#) on Fri, 02 Jan 2009 01:54:18 GMT
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well....

the easiest way to run the desktop in VE is to install for example KDE without X at all... I just install nxserver and access the VE desktop with little, remote X server from nxclient package.

regards.

PS. I see no reason to run Xorg inside VE, if I'm not able to login remotely.

Subject: Re: Configure virtualized /proc
Posted by [miguel](#) on Sat, 03 Jan 2009 13:59:25 GMT
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Well, first things first. As far as I know, there is NO WAY you can run an X server inside a VE for various reasons.

But here is an idea: you can start gdm and run a full X desktop in the VE.

Put this in /etc/gdm/gdm.conf:

```
[daemon]
VTAllocation=false
```

```
[security]
DisallowTCP=false
```

```
[xdmcp]
Enable=true
```

```
[gui]
```

[greeter]

[chooser]

[debug]

[server=false]

name=false

command=/bin/false

[servers]

0=false

And then restart gdm.

On some another machine:

Xnest :1 -query VE_IP_ADDRESS -geometry 800x600

Be aware of the security impact of enabling XDMCP.

Subject: Re: Configure virtualized /proc

Posted by [kjo.hansi.glaz](#) on Sat, 03 Jan 2009 18:16:53 GMT

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I tried this.

- With ati driver, X starts a little more, but "freezes" my display.

- With vesa driver, this works !

As you said, I'm not sure at all it's a good solution, but at least it works.

Thanks !

Subject: Re: Configure virtualized /proc

Posted by [bbhenry](#) on Thu, 02 Apr 2009 22:11:19 GMT

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Hi, can you explain what you've actually tried and worked?

I have also wanted to be able to access some kind of display device from HN inside VE.

But the concept of displaying your HN and a VE from the same video card already sounds conflicting: which machine should your monitor display? (HN or VE)?

So I was thinking of using 2 video cards or video cards with 2 displays, and pass the second display access to one of the VE we want to run X. So please help me on what is already being tested. And you mentioned that people who use Vserver has already done things like this?

Subject: Re: Configure virtualized /proc

Posted by [bbhenry](#) on Mon, 28 Dec 2009 08:34:17 GMT

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Just following up my own question. Doesn't the display get confused of which one to display?

The screen is showing VE0 or the container you have installed full X Server on?

What if I don't have full XServer installed , I just want to show the command line screen of the container on screen . Without doing vzctl enter VEID , can I still view the container by using the method in this thread?

What do I do after I have done the following:

Mount /proc from HN to VE. i.e.:

```
# umount -l /vz/root/$VEID/proc
```

```
# mount -t proc proc /vz/root/$VEID/proc
```
