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trn84 Update nvidia-headless.md

4 years ago



65 lines (46 loc) • 1.51 KB

Preview

Code

Blame

Raw



Nvidia-headless [↗](#)

This is a small guide to have NVIDIA accelerated OpenGL support for nvidia-docker2 on a HEADLESS Ubuntu 16.04/18.04 server.

Prereqs. for the system [↗](#)

```
sudo apt-get install xinit xserver-xorg-legacy mesa-utils xterm
```

Stop gdm3 Window Manager [↗](#)

```
sudo service gdm3 stop
```

Maybe also stop lightdm [↗](#)

```
sudo service lightdm stop
```

Edit xinit permissions [↗](#)

```
sudo sed -i -e "s/console/anybody/" /etc/X11/Xwrapper.config
```

Install NVIDIA Driver from CUDA .run shell script [↗](#)

Select OpenGL and driver install! Please also check that the driver fits the nvidia-docker driver volume!

```
sudo ./cuda10.0XXX.run
```

Check PCI BusID [↗](#)

```
nvidia-xconfig --query-gpu-info
```

Create xorg.conf with the correct BusID from the previous command [↗](#)

```
sudo nvidia-xconfig --busid=PCI:X:Y:Z --enable-all-gpus --use-display-device=none -o /etc/X11/xorg.conf
```

Edit /etc/X11/xorg.conf and add the following at the top [↗](#)

```
Section "DRI"
    Mode 0666
EndSection
```



Check the correct BusID in the Device part

```
Section "Device"
    Identifier "Device0"
    Driver "nvidia"
    VendorName "NVIDIA Corporation"
    BusID "PCI:0:3:0"
EndSection
```



And then remove the option in the display part

```
Option "UseDisplayDevice" "none"
```



Lastly, start the x server [↗](#)

```
export DISPLAY=:0
```

```
xinit &
```

Test that it is working: [↗](#)

nvidia-smi -> Check if Xorg is using nvidia driver under processes

Check OpenGL: [↗](#)

```
glxinfo | grep OpenGL
```



If everything is ok there should be something with "NVIDIA OpenGL EGL"