

ETHICAL SOFTWARE COMMUNITY

NVIDIA Driver on Fedora Linux 36

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Install NVIDIA Driver on Fedora Linux 36

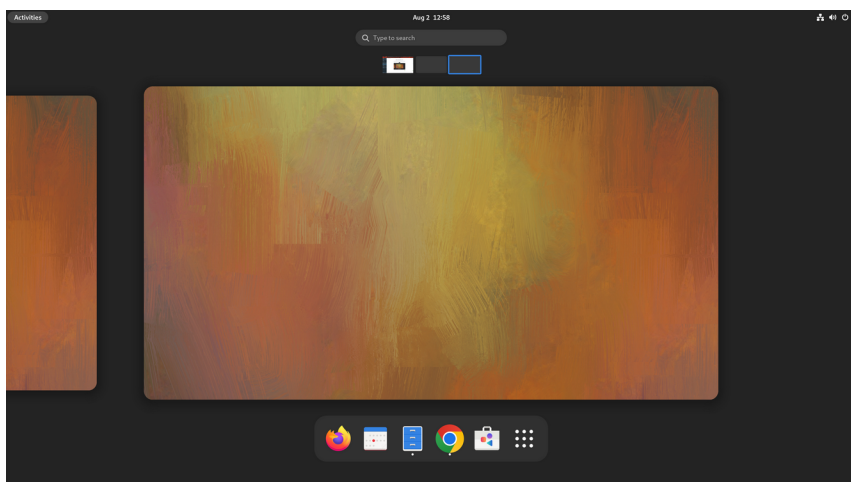
For NVIDIA Graphic Card to work on Fedora Linux 36, we have to install the NVIDIA Driver! Let's start!

P.S. If you have any concerns regarding this tutorial, please refer to this link¹.

Step 1. First, on your Fedora, move your mouse to the **top-left corner** of your screen.

You should see the following screen:

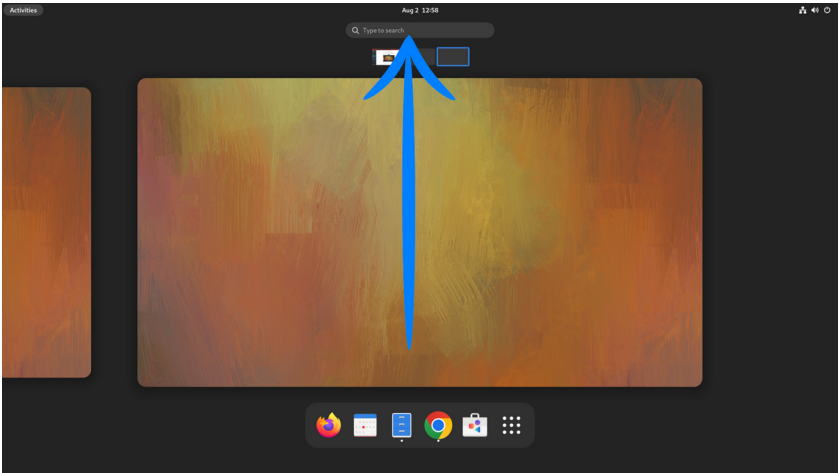
Example Output:



1 <https://www.linuxcapable.com/how-to-install-nvidia-drivers-on-fedora-36-linux/>

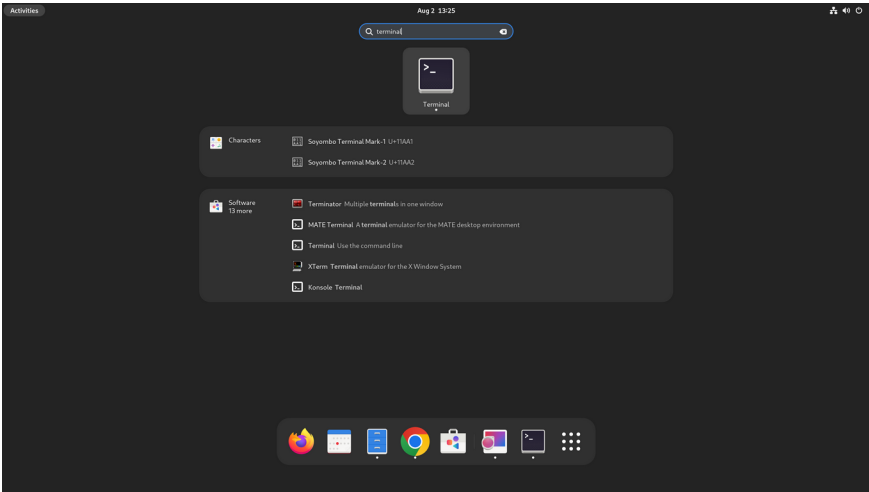
Step 2. Left Click **“Type to search”**.

Example Output:



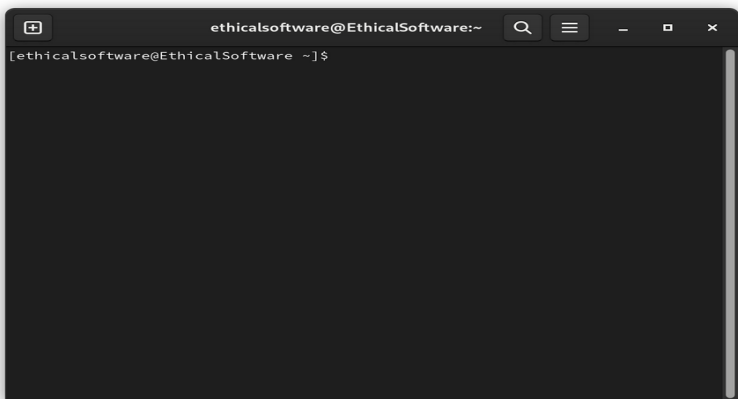
Step 3. Enter the word **“Terminal”**.

Example Output:



Step 4. After Left Clicking on the Terminal Icon. You should see the following terminal pop out.

Example Output:



Step 5. Enter the below command in the terminal for Updating Fedora and enter your user password:

It might take around 10 minutes if it is the first update.

```
sudo dnf upgrade --refresh -y
```

Example Output:

```
ethicalsoftware@localhost-live:~ — sudo dnf upgrade --refresh -y
[ethicalsoftware@localhost-live ~]$ sudo dnf upgrade --refresh -y

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

[sudo] password for ethicalsoftware:
Fedora 36 - x86_64                               12 MB/s | 81 MB     00:06
Fedora 36 openh264 (From Cisco) - x86_64        990 B/s | 2.5 kB    00:02
Fedora Modular 36 - x86_64                      767 kB/s | 2.4 MB   00:03
Fedora 36 - x86_64 - Updates                    1.0 MB/s | 24 MB    00:24
Fedora Modular 36 - x86_64 - Updates            1.5 MB/s | 2.4 MB   00:01
Dependencies resolved.

=====
Package                               Arch   Version                Repo      Size
=====
Installing:
kernel                               x86_64 5.18.13-200.fc36       updates 257 k
kernel-modules                       x86_64 5.18.13-200.fc36       updates 57 M
kernel-modules-extra                 x86_64 5.18.13-200.fc36       updates 3.6 M
Upgrading:
ModemManager                        x86_64 1.18.8-1.fc36          updates 1.1 M
ModemManager-glib                   x86_64 1.18.8-1.fc36          updates 301 k
NetworkManager                      x86_64 1:1.38.2-1.fc36        updates 2.1 M
NetworkManager-adsl                 x86_64 1:1.38.2-1.fc36        updates 26 k
NetworkManager-bluetooth            x86_64 1:1.38.2-1.fc36        updates 53 k
NetworkManager-config-connectivity-fedora noarch 1:1.38.2-1.fc36        updates 12 k
NetworkManager-libnm                x86_64 1:1.38.2-1.fc36        updates 1.7 M
NetworkManager-openconnect          x86_64 1.2.8-2.fc36           updates 542 k
NetworkManager-openconnect-gnome    x86_64 1.2.8-2.fc36           updates 46 k
NetworkManager-ppp                  x86_64 1:1.38.2-1.fc36        updates 35 k
NetworkManager-team                 x86_64 1:1.38.2-1.fc36        updates 30 k
```

Step 6. Enter the below command in the terminal for **Enabling RPM Fusion Free** and enter your user password. Enter the “y” key to confirm installing Rpm Fusion.

```
sudo dnf install
https://download1.rpmfusion.org/free/fedora/rpmfusion-free-
release-$(rpm -E %fedora).noarch.rpm
```

Example Output:

```
ethicalsoftware@localhost-live:~  
[ethicalsoftware@localhost-live ~]$ sudo dnf install https://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-$(rpm -E %fedora).noarch.rpm  
[sudo] password for ethicalsoftware:  
Last metadata expiration check: 0:06:30 ago on Wed 03 Aug 2022 03:48:44 PM HKT.  
rpmfusion-free-release-36.noarch.rpm 11 kB/s | 11 kB 00:01  
Dependencies resolved.  
=====
```

Package	Architecture	Version	Repository	Size
Installing:				
rpmfusion-free-release	noarch	36-1	@commandline	11 k

```
=====
```

Transaction Summary

=====

Install 1 Package

Total size: 11 k
Installed size: 5.6 k
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction

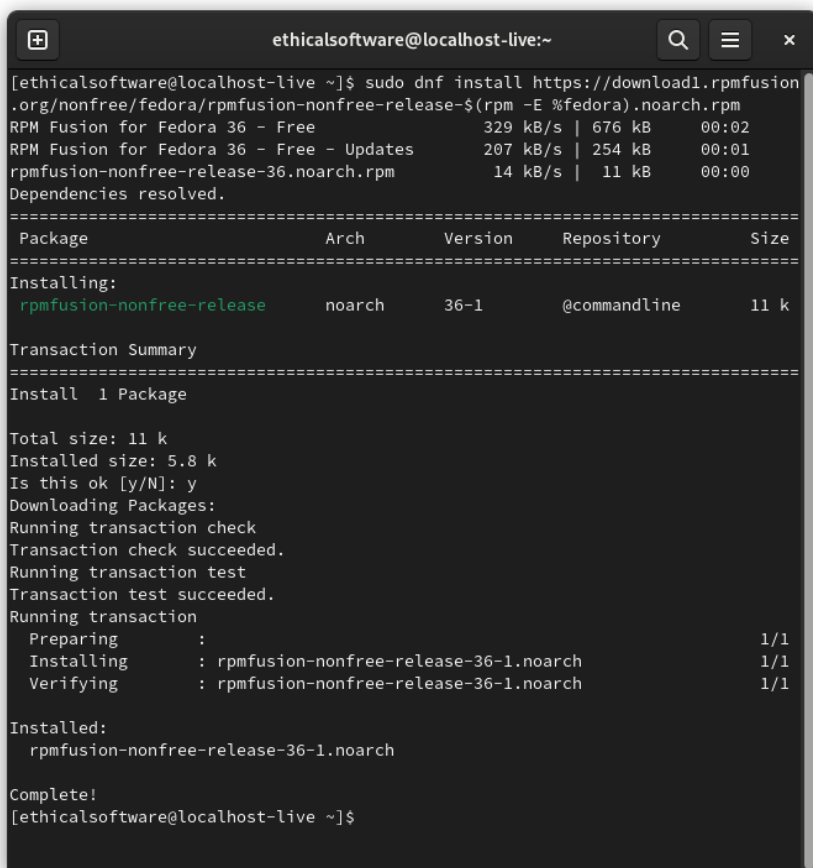
Preparing	:	1/1
Installing	: rpmfusion-free-release-36-1.noarch	1/1
Verifying	: rpmfusion-free-release-36-1.noarch	1/1

```
Installed:  
rpmfusion-free-release-36-1.noarch  
  
Complete!  
[ethicalsoftware@localhost-live ~]$
```

Step 7. Enter the below command in the terminal for **Enabling RPM Fusion Non-Free**. Enter the “y” key to confirm installing Rpm Fusion.


```
sudo dnf install
https://download1.rpmfusion.org/nonfree/fedora/rpmfusion-
nonfree-release-$(rpm -E %fedora).noarch.rpm
```

Example Output:

A terminal window titled 'ethicalsoftware@localhost-live:~' showing the output of the command 'sudo dnf install https://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-\$(rpm -E %fedora).noarch.rpm'. The output displays the download progress for 'RPM Fusion for Fedora 36 - Free' and 'RPM Fusion for Fedora 36 - Free - Updates', followed by 'rpmfusion-nonfree-release-36.noarch.rpm'. It then shows a table of installed packages, a transaction summary, and the final state of the system.

```
[ethicalsoftware@localhost-live ~]$ sudo dnf install https://download1.rpmfusion
.org/nonfree/fedora/rpmfusion-nonfree-release-$(rpm -E %fedora).noarch.rpm
RPM Fusion for Fedora 36 - Free                329 kB/s | 676 kB    00:02
RPM Fusion for Fedora 36 - Free - Updates      207 kB/s | 254 kB    00:01
rpmfusion-nonfree-release-36.noarch.rpm        14 kB/s | 11 kB     00:00
Dependencies resolved.
=====
Package                                Arch      Version      Repository      Size
=====
Installing:
rpmfusion-nonfree-release              noarch    36-1         @commandline    11 k
=====
Transaction Summary
=====
Install 1 Package

Total size: 11 k
Installed size: 5.8 k
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : rpmfusion-nonfree-release-36-1.noarch 1/1
  Verifying      : rpmfusion-nonfree-release-36-1.noarch 1/1

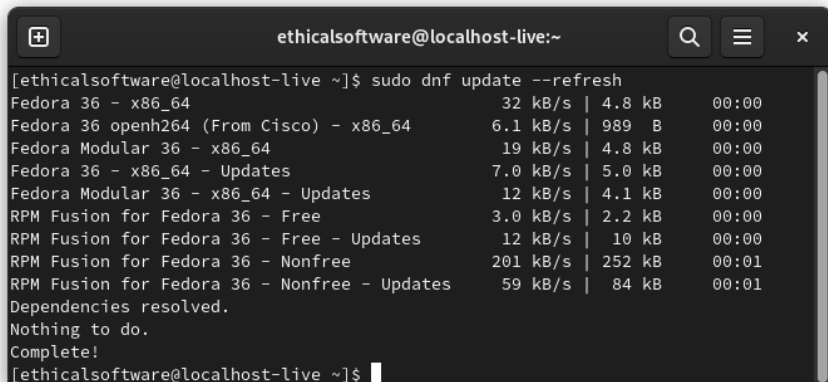
Installed:
rpmfusion-nonfree-release-36-1.noarch

Complete!
[ethicalsoftware@localhost-live ~]$
```

Step 8. Enter the below command in the terminal to refresh your repository list.

```
sudo dnf update --refresh
```

Example Output:



```
ethicalsoftware@localhost-live:~$ sudo dnf update --refresh
Fedora 36 - x86_64                                32 kB/s | 4.8 kB    00:00
Fedora 36 openh264 (From Cisco) - x86_64        6.1 kB/s | 989 B    00:00
Fedora Modular 36 - x86_64                      19 kB/s | 4.8 kB    00:00
Fedora 36 - x86_64 - Updates                    7.0 kB/s | 5.0 kB    00:00
Fedora Modular 36 - x86_64 - Updates             12 kB/s | 4.1 kB    00:00
RPM Fusion for Fedora 36 - Free                  3.0 kB/s | 2.2 kB    00:00
RPM Fusion for Fedora 36 - Free - Updates        12 kB/s | 10 kB     00:00
RPM Fusion for Fedora 36 - Nonfree              201 kB/s | 252 kB    00:01
RPM Fusion for Fedora 36 - Nonfree - Updates     59 kB/s | 84 kB     00:01
Dependencies resolved.
Nothing to do.
Complete!
ethicalsoftware@localhost-live ~]$
```

Now Install NVIDIA Drivers on Fedora

Step 9. Enter the below command in the terminal to install the latest NVIDIA drivers on your Fedora system.

It might take several minutes.

```
sudo dnf install akmod-nvidia -y
```

Example Output:

```
ethicalsoftware@localhost-live: ~ — sudo dnf install akmod-nvi...
[ethicalsoftware@localhost-live ~]$ sudo dnf install akmod-nvidia -y
Last metadata expiration check: 0:03:13 ago on Wed 03 Aug 2022 04:00:28 PM HKT.
Dependencies resolved.
=====
Package                Arch    Version                Repository              Size
=====
Installing:
akmod-nvidia            x86_64  3:515.57-1.fc36       rpmfusion-nonfree-updates 27 k
Installing dependencies:
akmods                  noarch  0.5.7-8.fc36          updates                  28 k
annobin-docs            noarch  10.79-1.fc36          updates                  91 k
annobin-plugin-gcc      x86_64  10.79-1.fc36          updates                  882 k
ansible-srpm-macros     noarch  1-5.fc36              updates                  7.3 k
bison                   x86_64  3.8.2-2.fc36          fedora                   986 k
debugedit               x86_64  5.0-3.fc36            fedora                   77 k
dwz                     x86_64  0.14-4.fc36           updates                  127 k
ed                      x86_64  1.14.2-12.fc36        fedora                   73 k
efi-srpm-macros         noarch  5-5.fc36              fedora                   22 k
egl-gbm                 x86_64  1.1.0-2.fc36          fedora                   20 k
egl-wayland             x86_64  1.1.10-4.20220621git53b6a87.fc36
                                                                    updates                  38 k
elfutils-libelf-devel  x86_64  0.187-4.fc36          updates                  26 k
fakeroot                x86_64  1.29-1.fc36           updates                  88 k
fakeroot-libs           x86_64  1.29-1.fc36           updates                  39 k
flex                    x86_64  2.6.4-10.fc36         fedora                   307 k
fonts-srpm-macros       noarch  1:2.0.5-7.fc36        fedora                   27 k
fpc-srpm-macros         noarch  1.3-5.fc36            fedora                   7.6 k
gcc-plugin-annobin      x86_64  12.1.1-1.fc36         updates                  48 k
ghc-srpm-macros         noarch  1.5.0-6.fc36          fedora                   7.7 k
gnat-srpm-macros        noarch  4-15.fc36             fedora                   8.2 k
go-srpm-macros          noarch  3.0.15-1.fc36         fedora                   26 k
http-parser             x86_64  2.9.4-6.fc36          fedora                   37 k
info                    x86_64  6.8-3.fc36            fedora                   225 k
kernel-devel            x86_64  5.18.13-200.fc36      updates                  16 M
kernel-devel-matched    x86_64  5.18.13-200.fc36      updates                  257 k
kernel-srpm-macros      noarch  1.0-14.fc36           fedora                   9.1 k
kmodtool                noarch  1.1-3.fc36            fedora                   17 k
koji                    noarch  1.29.1-1.fc36         updates                  208 k
```

Step 10. Enter the below command in the terminal to install the **CUDA Driver support** as it can help solve problems if issues persist with the driver.

Enter your password if you are asked to.

Enter the “y” key to confirm installing Rpm Fusion.

```
sudo dnf install xorg-x11-drv-nvidia-cuda
```

Example Output:

```
ethicalsoftware@localhost-live:~  
[ethicalsoftware@localhost-live ~]$ sudo dnf install xorg-x11-drv-nvidia-cuda  
[sudo] password for ethicalsoftware:  
Last metadata expiration check: 0:08:21 ago on Wed 03 Aug 2022 04:00:28 PM HKT.  
Dependencies resolved.  
=====
```

Package	Arch	Version	Repository	Size
Installing:				
xorg-x11-drv-nvidia-cuda	x86_64	3:515.57-1.fc36	rpmfusion-nonfree-updates	1.7 M

```
Installing dependencies:  
nvidia-persistenced x86_64 3:515.57-1.fc36 rpmfusion-nonfree-updates 35 k  
ocl-icd x86_64 2.3.1-1.fc36 updates 67 k  
opencl-filessystem noarch 1.0-15.fc36 fedora 7.4 k
```

```
Transaction Summary  
=====
```

Install 4 Packages			
Total download size: 1.8 M			
Installed size: 4.8 M			
Is this ok [y/N]: y			
Downloading Packages:			
(1/4): opencl-filessystem-1.0-15.fc36.noarch.rpm	49 kB/s	7.4 kB	00:00
(2/4): nvidia-persistenced-515.57-1.fc36.x86_64	153 kB/s	35 kB	00:00
(3/4): ocl-icd-2.3.1-1.fc36.x86_64.rpm	274 kB/s	67 kB	00:00
(4/4): xorg-x11-drv-nvidia-cuda-515.57-1.fc36.x	4.2 MB/s	1.7 MB	00:00
Total		689 kB/s	1.8 MB 00:02

```
Running transaction check  
Transaction check succeeded.  
Running transaction test  
Transaction test succeeded.  
Running transaction  
Preparing : 1/1  
Installing : nvidia-persistenced-3:515.57-1.fc36.x86_64 1/4  
Running scriptlet: nvidia-persistenced-3:515.57-1.fc36.x86_64 1/4  
Installing : ocl-icd-2.3.1-1.fc36.x86_64 2/4  
Installing : opencl-filessystem-1.0-15.fc36.noarch 3/4  
Installing : xorg-x11-drv-nvidia-cuda-3:515.57-1.fc36.x86_64 4/4  
Running scriptlet: xorg-x11-drv-nvidia-cuda-3:515.57-1.fc36.x86_64 4/4
```

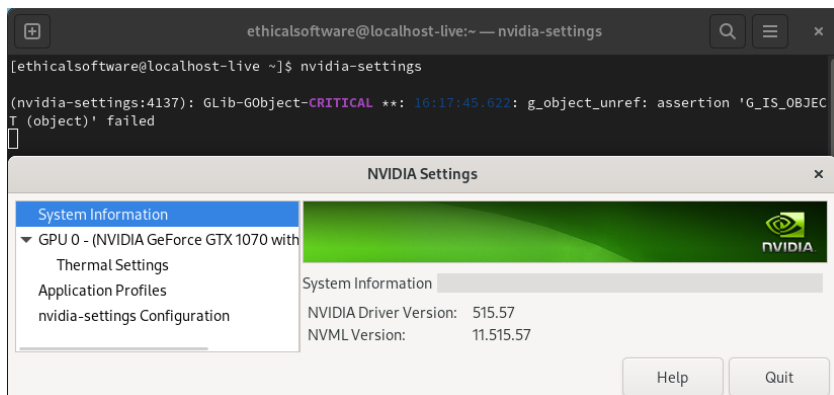
Step 11. Enter the below command in the terminal to reboot your PC

reboot

Step 12. After the PC reboot, repeat **Steps 1- 4** to open a new Terminal. Enter the below command in the terminal to verify whether or not the NVIDIA Drivers are installed.

nvidia-settings

Example Output if no Error:



Please contact the Linux Support Officer for further assistance if you encounter any issues or concerns.

E.N.D