



# DRIVE Platform Installation with NVIDIA SDK Manager

Quickstart Guide  
NVIDIA DRIVE 5.1.6.0



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# 1 DRIVE Platform Installation with NVIDIA SDK Manager

**NVIDIA SDK Manager** is an all-in-one tool that bundles DRIVE Software Development Kits (SDKs) and Platform Development Kits (PDKs), providing an end-to-end development environment setup solution for NVIDIA SDKs.

## Installing the DRIVE Platform Through NVOnline

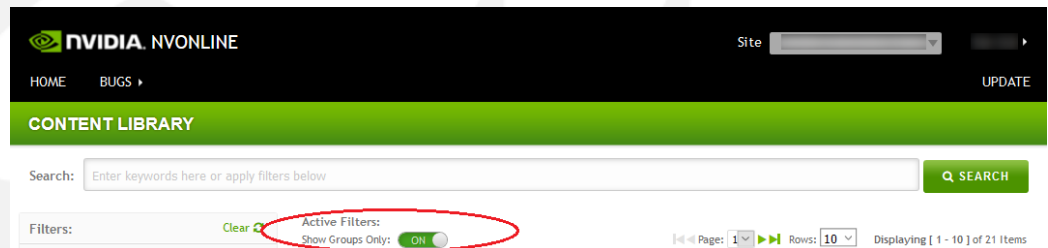
### System Requirements

Category	Requirement
Host machine	<ul style="list-style-type: none"><li>• Ubuntu Desktop 16.04 LTS</li><li>• Minicom must be installed to flash the target platform via USB cable</li><li>• Working Internet connection</li></ul>
Architecture	X86_64
Memory	8GB
Free disk space	A minimum of 40GB and up to 120GB (during flash) free disk space on the system volume is needed for each full (host and target) deployed SDK version.
GUI	X11 must be enabled on the host.

Category	Requirement
Graphics driver	<p>The most recent graphics driver for your GPU needs to be installed on the host system. To update your driver, use one of the following methods:</p> <ul style="list-style-type: none"> <li>• Download the <a href="#">.run file for your particular GPU and OS</a>.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Use the <a href="#">apt-get</a> method.</li> </ul> <p><b>WARNING:</b> Do not mix both the download and apt-get methods, as this is not supported.</p> <p>To see the most current graphics driver for the version of the CUDA toolkit you are installing, see <a href="#">CUDA Toolkit and Compatible Driver Versions</a>.</p>
Target device	<p>The following supported development platform:</p> <ul style="list-style-type: none"> <li>• <a href="#">NVIDIA DRIVE AGX Developer Kit</a></li> </ul>
Additional hardware	A2A USB cable to connect the Linux host to the target

## 2 Download SDK Manager

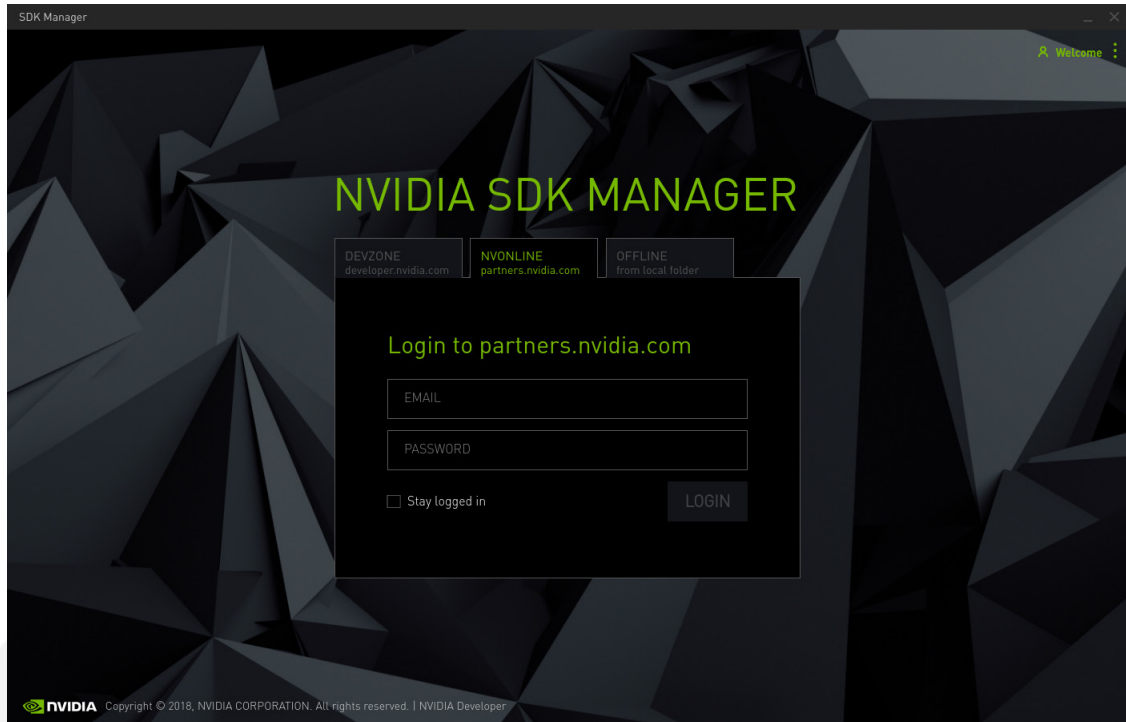
1. Log in to [partners.nvidia.com](https://partners.nvidia.com). If it is your first time logging in, you must accept the NVONLINE CONDITIONS OF USE agreement before proceeding.
2. To locate the SDK Manager package, use one of the two following methods:
  - a. Turn on active filters by enabling the **Show Groups Only** option, then click the hyperlink for **NVIDIA SDK Manager for DRIVE**.



- b. In the search field, type "SDK Manager" and click **Search**. Locate and click the hyperlink for **NVIDIA SDK Manager for DRIVE**.
3. A new tab opens with the available files to download. This includes:
    - o The SDK Manager user guide
    - o The SDK Manager application, named `sdkmanager-[version].[build#].deb`
  4. Download both files to your host machine.
  5. From a terminal, install the Debian package:

```
sudo apt install ./sdkmanager-[version].[build#].deb
```
  6. You can start SDK Manager using one of the following two methods:
    - a. Launch SDK Manager from the Ubuntu launcher.
    - b. Open a terminal and launch SDK Manager with the following command:

```
sdkmanager
```
  7. From the NVIDIA SDK Manager launch screen, select the login tab for **NVOnline | partners.nvidia.com**.
  8. Enter the same NVOnline account credentials that you used to access [partners.nvidia.com](https://partners.nvidia.com), and click **Login**.



For guidance on how to use NVIDIA SDK Manager to set up your development environment, please refer to the **SDK Manager Documentation**:

<https://docs.nvidia.com/sdk-manager/index.html>

