



Mobiliya

Jetson Flashing Guide.

April, 2018

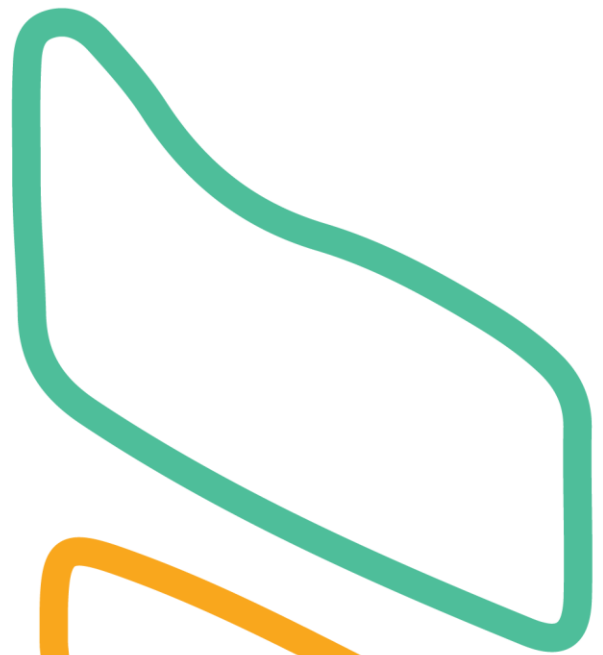


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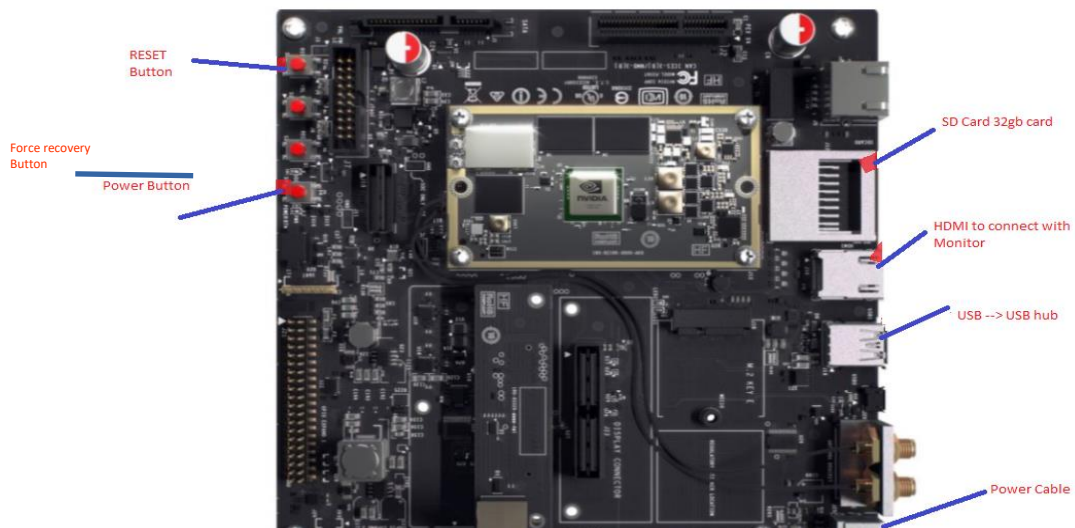
1. Jetson Board Preparation	Error! Bookmark not defined.
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JETSON BOARD PREPARATION.

Please follow the following steps to setup Security and Surveillance Stack.

NOTE: Assumption is Devices are new and blank.

Nvidia Jetson:-



A. Board Preparation:

1. Download Nvidia Jetson **Jetpack** for flashing:

<https://developer.nvidia.com/embedded/jetpack>

2. Create a folder named **jetson_jetpack** for installation of Jetpack libraries.

3. Place the downloaded JetPack-\${VERSION}.run (Eg: **JetPack-L4T-3.1-linux-x64.run**) file in this folder

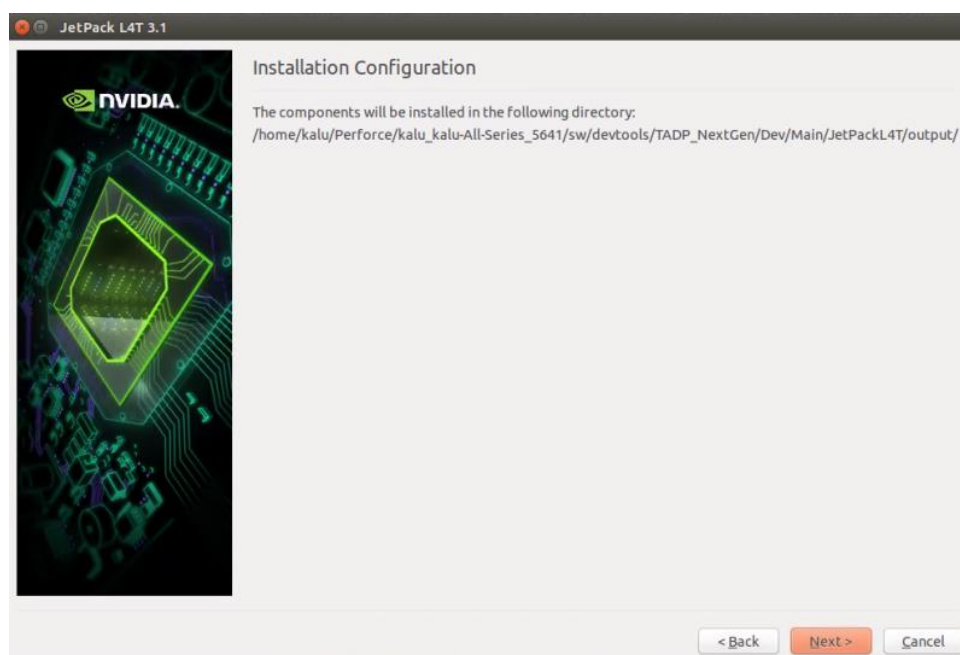
4. Add exec permission for the JetPack-L4T-3.1-linux-x64.run -

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chmod +x JetPack-L4T-3.1-linux-x64.run
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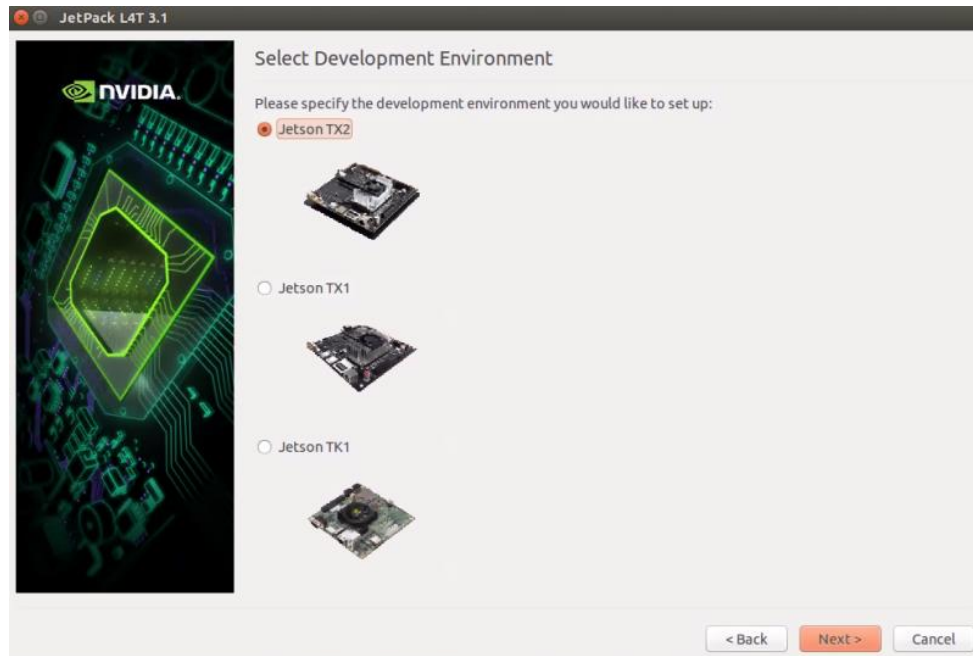
5. Run JetPack-L4T-3.1-linux-x64.run in terminal on your host Ubuntu machine.



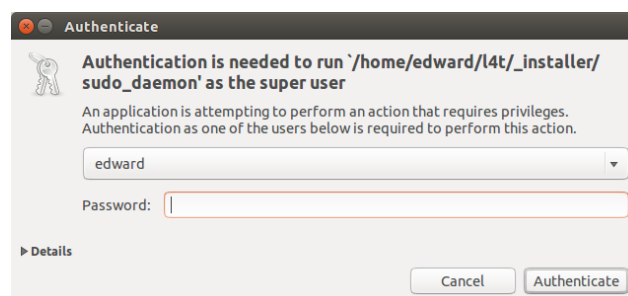
6. Next, the JetPack installer will indicate the installation directory.

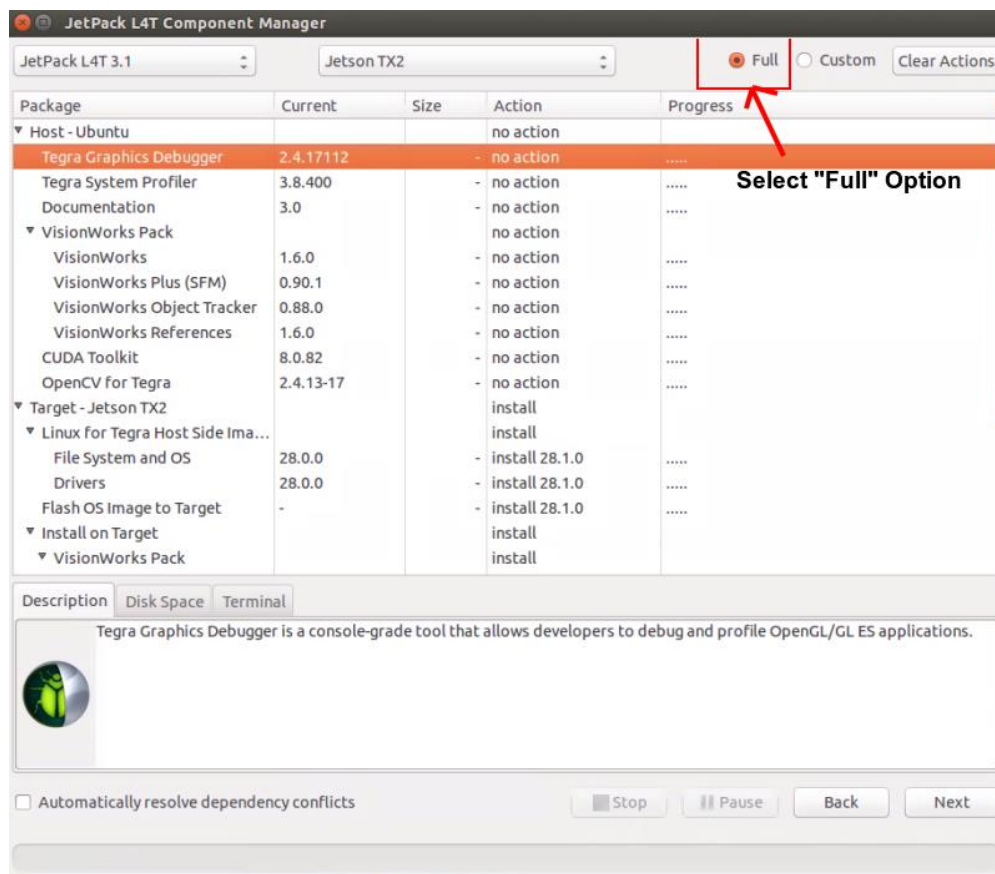


7. Select the development environment to setup.



8. The JetPack installer will pop up a window to ask for permission to use during the installation process; you will need to enter your sudo password here

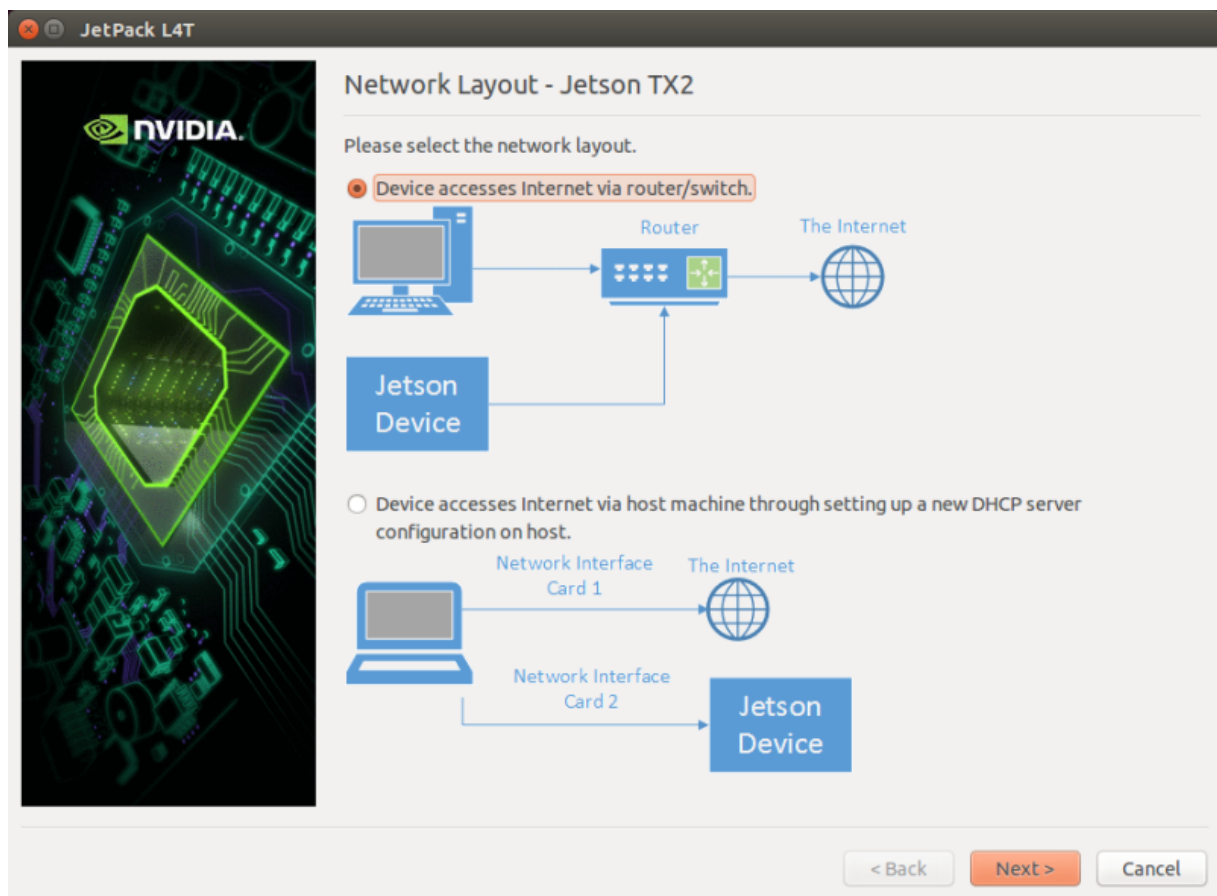




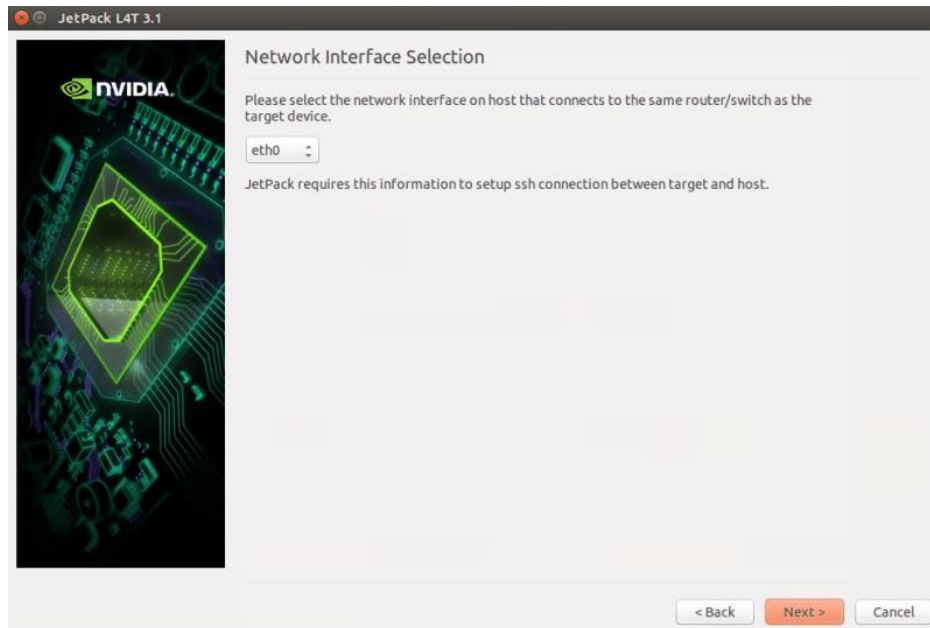
10. Accept the license agreement for the selected components.

11. The Component Manager will proceed with the installation. Once the host installation steps are completed, click the Next button to continue with the installation of target components.

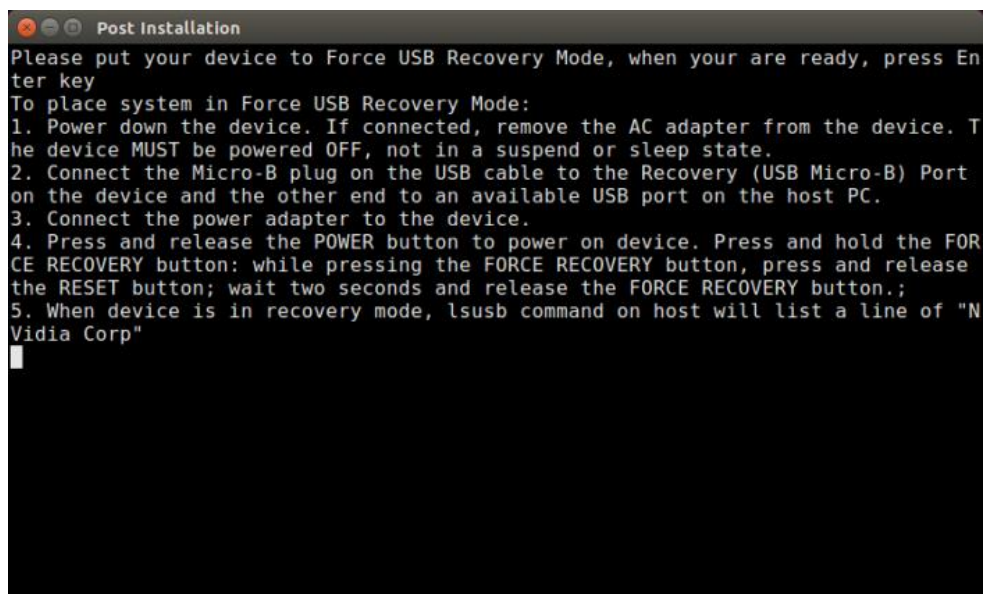
12. You will need to select the network layout for your specific environment.



13. If you selected the **Device access Internet via router/switch** layout, you will be asked to select which interface to use for Internet access.



14. A pop-up window will instruct you to put your device into Force USB Recovery Mode, so you can flash the OS.



Fix for this step:

Substep 4: Long press FORCE RECOVERY button, meanwhile press POWER button and release POWER button after a second. Then release FORCE RECOVERY button.

15. Next the host will try to identify the IP address of Jetson system. If it **gives up**, enter IP manually. (To know IP Jetson: Open Terminal on Jetson machine->**ifconfig**)

16. Make sure you are on **nvidia** user for further installations.

17. After obtaining the IP the host PC will install all the libraries on Jetson device.

18. After all the processing the host PC will give a 'Done Installation' message. Then Jetson is completely flashed .