# Jetson Orin Setup Manual

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**All information is referenced to** [**Jetpack6.2**](https://developer.nvidia.com/embedded/jetpack-sdk-62) **and Jetson Orin with SDK Manager v2.2.0.**

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## Upgrade Jetpack using SDK Manager

### Prepare a host

SDK Manager need to be installed on a separate x86-64(Amd64) host and flash to the Jetson device with a USB Type-C cable.

For Jetpack6.2, Ubuntu 20.04 / 22.04 / 24.04 is supported.

A screenshot of a computer screen

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See <https://developer.nvidia.com/sdk-manager#host_os_comp_matrix>

### Download SDK Manager

* Download **Ubuntu .deb** from [here](https://developer.nvidia.com/sdk-manager).
* Install the SDK Manager with command

“sudo dpkg -i sdkmanager\_2.2.0-12028\_amd64.deb”

### Connect Jetson Orin to host and put the board into Recovery Mode

A close-up of a computer

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### Connect Jetson Orin to host

* Connect a USB Type-C cable to Type C Port(10) of Orin and host.
* Plug in power cable into Type C Port (4) of Orin.

### Put Jetson Orin into Recovery Mode

* Press and hold down the Force Recovery button ( 2 ).
* Press and hold down the Reset button ( 3 ).
* Hold for 1 second.
* Release the Reset button ( 3 ) and then then Force Recovery button ( 2 ).

### (For WSL2 only) Connect USB devices to WSL2

In Window PowerShell, type the following

A screenshot of a computer

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### Confirm if host is successfully connected to Jetson Orin in Recovery Mode

In Ubuntu host, type the following

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### Upgrade using SDK Manager

In host terminal, type “sdkmanager” to open the SDK Manager. Login in and follow steps as shown below.

### Flash OS

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**3**

**1**

**2**

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**2**

**1**

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**2**

**1**

### Login into Jetson Orin and Initialize the OS. Connect Jetson to a Wi-Fi / Ethernet.

* Connect Jetson Orin with a monitor, mouse and keyboard. Login in and initialize the Ubuntu system.
* Connect Jetson Orin to the internet.

### Install Jetson SDK Components through Ethernet using SDK Manager

1. Default IP for installed system is 192.168.55.1

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**1**

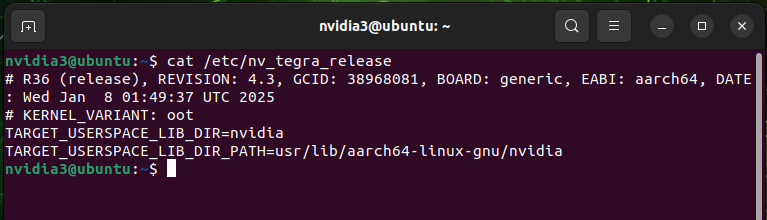
**2**

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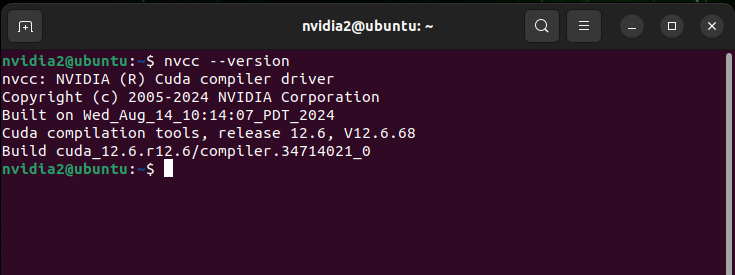
### Check if Jetpack OS is successfully installed

For Jetpakc6.2, **L4T36.4.3** is installed as shown below.



### Check if Jetpack SDK Components are successfully installed

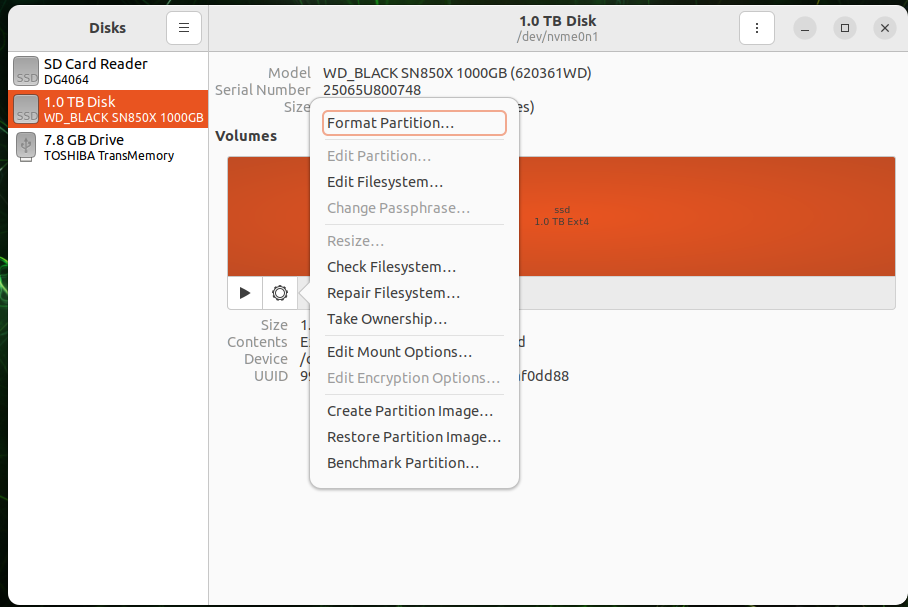
For Jetpack6.2, **Cuda 12.6** is installed as shown.

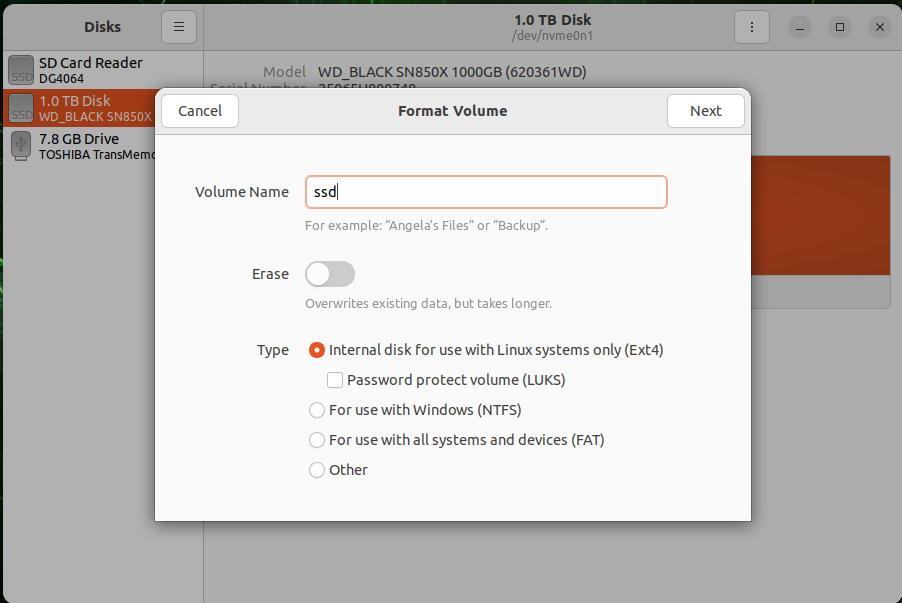


## Configurate Additional SSD

Open Disks from Ubuntu Applications and follow instructions below.

### Formula the SSD





### Change Mount Point

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### Start the SSD

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### Verify SSD Performance

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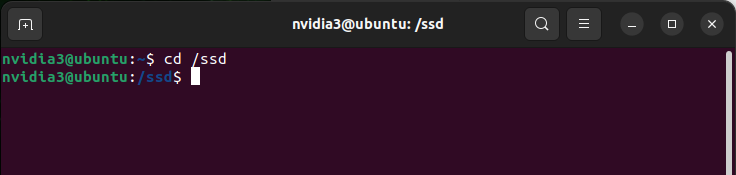
A screen shot of a benchmark

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A screen shot of a graph

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### Access SSD



## Install RT-Kernel

Install RT Kernel using OTA update from [here](https://docs.nvidia.com/jetson/archives/r36.4/DeveloperGuide/SD/Kernel/KernelCustomization.html#real-time-kernel-using-ota-update). Be aware of the release version (i.e. r36.4) in the link.

## Verify if RT-Kernel is installed

### Before installation



### After installation

