- The gemu-user-static package has been installed on the Linux host: sudo apt-get install gemu-user-static docker load -i ./sdkmanager-[version].[build#]-[base OS] docker.tar.gz Example: wnloads\$ sudo docker load -i "./sdkmanager-1.8.0.10363-Ubuntu_18.04_docker (1).tar.gz' [sudo] password for kjw: Loaded image: sdkmanager:1<u>.</u>8.0.10363-Ubuntu_18.04 docker tag sdkmanager: [version].[build#] sdkmanager:latest kjw@concepta:~/Downloads\$ sudo docker tag sdkmanager:1.8.0.10363-Ubuntu_18.04 sdkmanager:test Run a docker container. Will exit so you will need to rerun and enter the imaconcepta:-/Oownloads\$ sudo docker run -it --privileged -v /dev/bus/usb:/dev/bus/usb/ -v /dev:/dev -v /media/\$USER:/media/nvidia:slave --name JetPack_NanoTest --ne sdkmanager --cli install --logintype devzone --product Jetson --target JETSON_NANO --targetos Linux --archivedversions --version 4.4.1 --select 'Jetson OS' --degelec DK Components' --flash skip --license accept --staylogin true --datacollection enable ==== INSTALLATION COMPLETED SUCCESSFULLY. ===== - Drivers for Jetson: Installed - File System and OS: Installed - Device Mode Host Setup in Flash: Skipped - Flash Jetson Nano (Devkit): Skipped - Flash Jetson Nano: Skipped

Restart docker container Enter docker container terminal

```
kjw@concepta:~/Downloads$ sudo docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
kjw@concepta:~/Downloads$ sudo docker start JetPack_NanoTest
JetPack_NanoTest
kjw@concepta:~/Downloads$ sudo docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
433883581ae7 sdkmanager "docker-entrypoint.s..." 14 minutes ago Up 2 seconds JetPack_NanoTest
kjw@concepta:~/Downloads$ sudo docker exec -it JetPack_NanoTest bash
nvidia@concepta:~$ ls
Downloads nvidia
```

Navigate to the flash script and Call the flash.sh specifying the jetson board and dev root

ALT: Can alternatively call massflash with correct argument for flashing multiple

Unpower and repower the Nano, not in recovery mode.

Step though the System Configuration and note the new login credentials Login and not the ip-address Ifconfig \rightarrow eth0 \rightarrow inet

```
kjw@concepta:~$ sudo docker run -it --privileged -v /dev/bus/usb:/dev/bus/usb/ -v /dev:/dev -v /media/$USER:/medi
a/nvidia:slave --name SDK_Tools --network host sdkmanager --cli install --logintype devzone --product Jetson --ta
rget P3448-0002 --targetos Linux --archivedversions --version 4.4.1 --deselect 'Jetson OS' --select 'Jetson SDK C
omponents' --license accept --staylogin true --datacollection enable
```

```
JetPack 4.4.1 Linux for Jetson Nano
 TARGET COMPONENTS

→ Jetson SDK Components

                                                                                  Downloading - 10%
     CUDA
     > CUDA-X AI
                                                                                     Downloading - 6%
     Computer Vision
                                                                                     Downloading - 36%
                                                                                  Download PendingDownload Pending
     NVIDIA Container Runtime
      Multimedia
SDK Manager is about to install SDK components on
                                                                        Terminal Log
                                                                     0.2_arm64.deb to /home/nvidia/Downloads/nvidia/sdkm_do
To install SDK components on your :
                                                                     wnloads/libcudnn8-doc_8.0.0.180-1+cuda10.2_arm64.deb
info: verifying checksum of /home/nvidia/Downloads/nvi
  Options:
                                                                     dia/sdkm_downloads/libcudnn8-doc_8.0.0.180-1+cuda10.2_
  2. Skip
                                                                      arm64.deb
                                                                      info: download /home/nvidia/Downloads/nvidia/sdkm_down
                                                                     loads/libcudnn8-doc_8.0.0.180-1+cuda10.2_arm64.deb
successfully, checksum is correct
                                                                     info: start to download https://developer.nvidia.com/a
ssets/embedded/secure/tools/files/jetpack-sdks/jetpack
-4.4.1/JETPACK_441_b50/NoDLA/libnvinfer7_7.1.3-1+cuda1
                                                                      0.2_arm64.deb to /home/nvidia/Downloads/nvidia/sdkm_do
                                                                     wnloads/libnvinfer7_7.1.3-1+cuda10.2_arm64.deb
```

Select Install > Connect via USB Cable > Choose the connected board that shows up > IPv4 > Change IP address to that of the nano > username and password

Allow all downloading and installation to complete

```
JetPack 4.4.1 Linux for Jetson Nano
  TARGET COMPONENTS

→ Jetson SDK Components
        CUDA

    Install Pending

         > CUDA-X AI
                                                                                                  Install Pending
                                                                                                  Installing - 33%
        Computer Vision
                                                                                               Install PendingInstall Pending
         NVIDIA Container Runtime
         Multimedia
  Terminal Log
info: Selecting previously unselected package python-pytest.
info: Preparing to unpack .../18-python-pytest_3.3.2-2_all.deb ...
info: Unpacking python-pytest (3.3.2-2) ...
info: Setting up libexpat1:arm64 (2.2.5-3ubuntu0.7) ...
info: Setting up python-attr (17.4.0-2) ...
info: Setting up python-pluggy (0.6.0-1) ...
info: Setting up python-pkg-resources (39.0.1-2) ...
info: Setting up python-six (1.11.0-2) ...
info: Setting up python-funcsigs (1.0.2-4) ..
info: Setting up libexpat1-dev:arm64 (2.2.5-3ubuntu0.7) ...
info: Setting up libpython2.7-minimal:arm64 (2.7.17-1~18.04ubuntu1.7) ...
info: Setting up libpython2.7-stdlib:arm64 (2.7.17-1~18.04ubuntu1.7) ...
info: Setting up python2.7-minimal (2.7.17-1~18.04ubuntu1.7) ...
  ==== INSTALLATION COMPLETED SUCCESSFULLY. =====
           - Device Mode Host Setup in Target SDK: Installed

    DateTime Target Setup: Installed

           - CUDA Toolkit for L4T: Installed
           - cuDNN on Target: Installed
           - TensorRT on Target: Installed
```