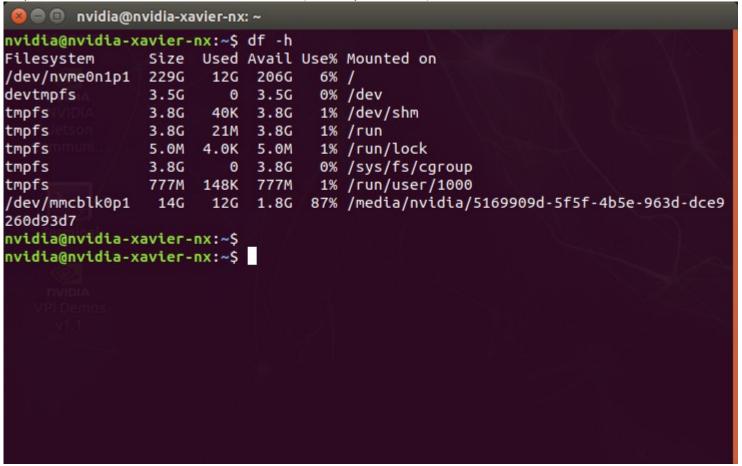
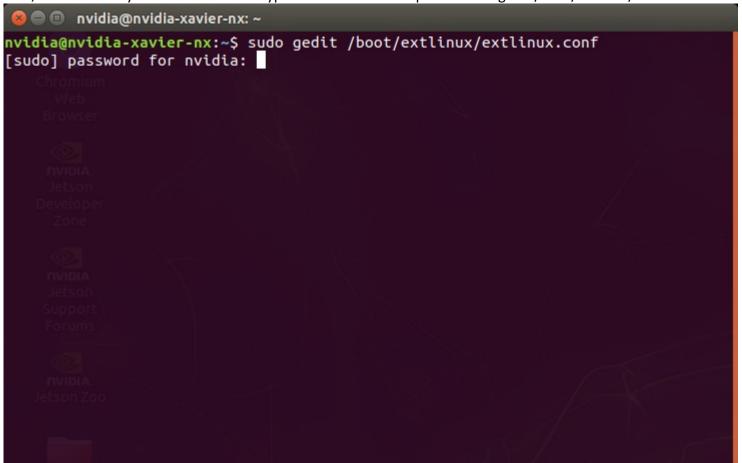
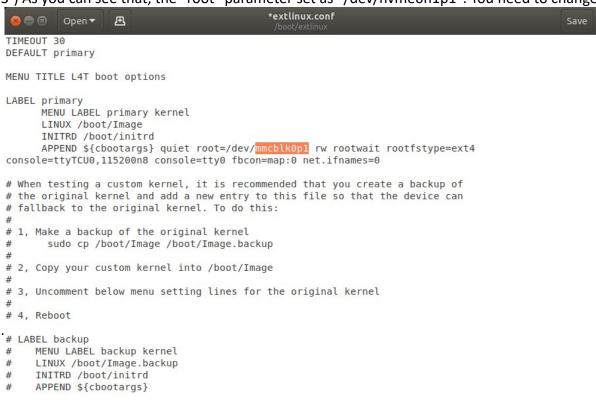
1-) Open a terminal on your Jetson. Then, type "df -h"
As you can see that our SSD connected on "/" (as Filesystem Root)



2-) At this point we need to change two extlinux.conf files which located on boot/extlinux folders both eMMC & SSD. First, we will modify the file at the SSD. Type this command to open it "sudo gedit /boot/extlinux/extlinux.conf"

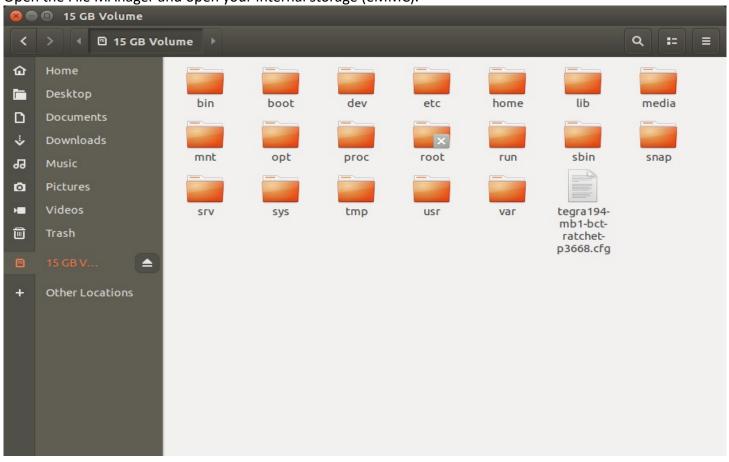


3-) As you can see that, the "root" parameter set as "/dev/nvme0n1p1". You need to change it as "/dev/mmcblk0p1"

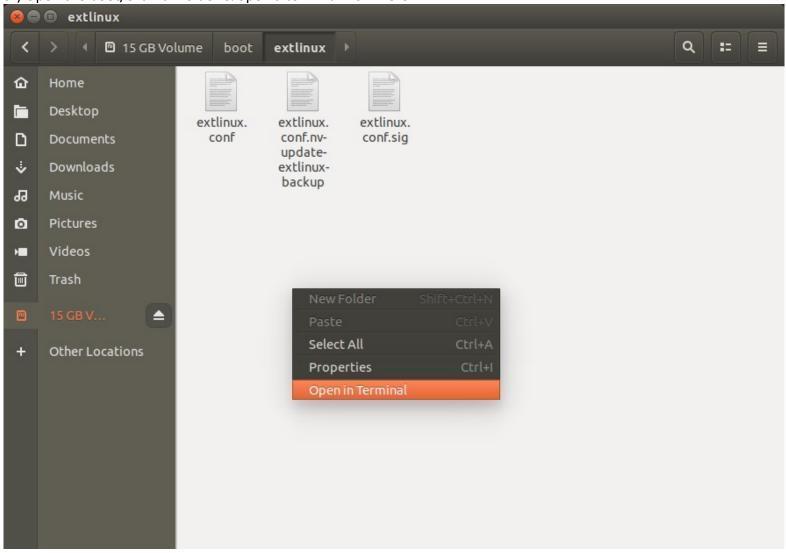


4-)Then, save it and close.

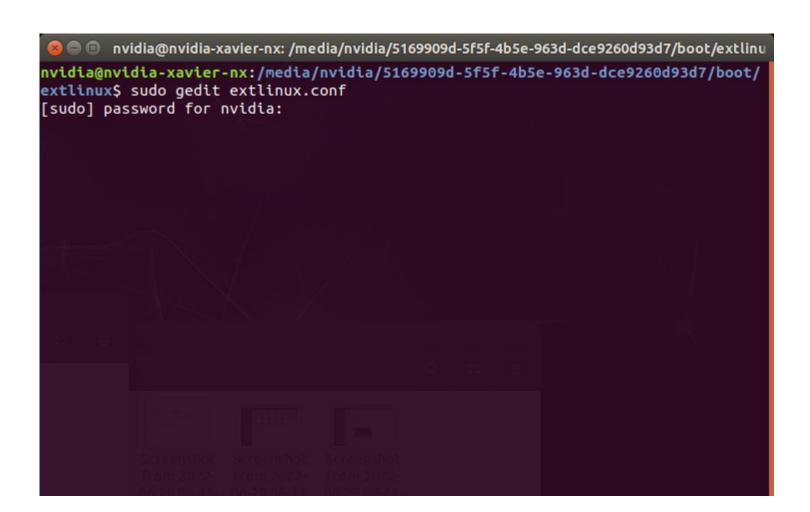
Open the File MAnager and open your internal storage (eMMC).



5-) Open the boot/extlinux folder & open a terminal from here.

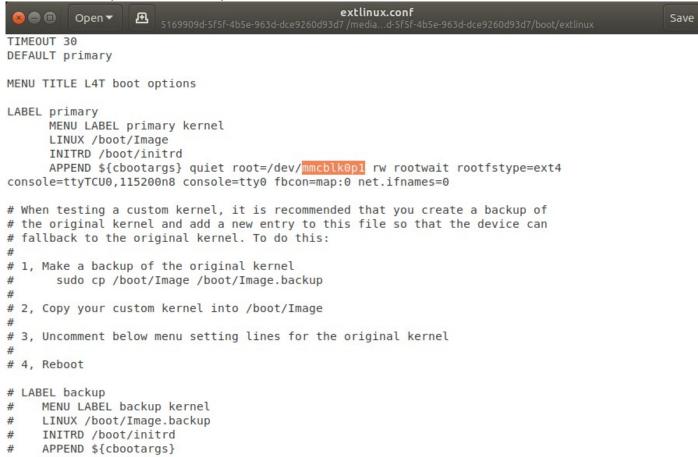


6-) Type this command below to modify the second extlinux.conf file: "sudo gedit extlinux.conf"



7-) You need to do that the same update on this file as well.

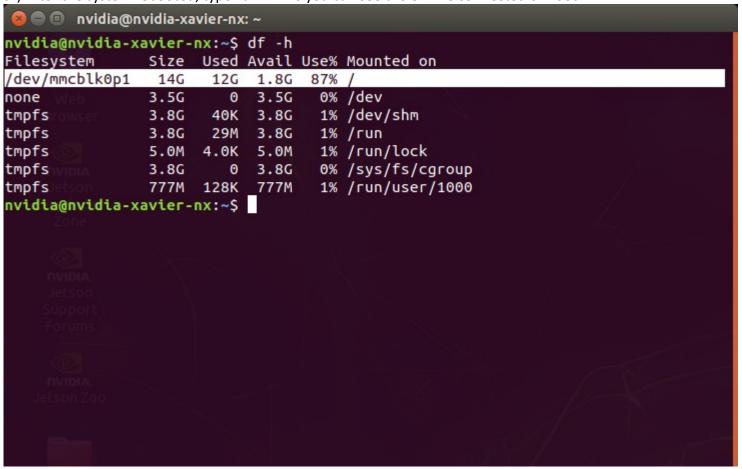
From "nvme0n1p1" to "mmcblk0p1"



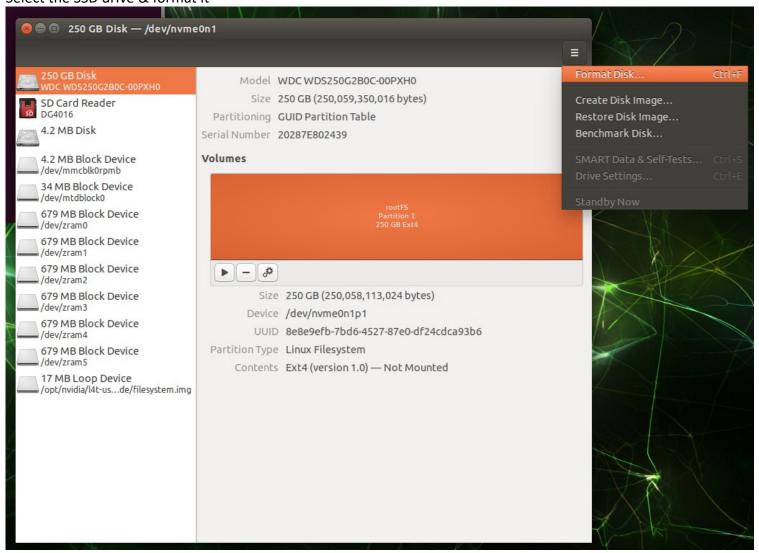
8-) Then, save it & close. Type "sudo reboot" to apply the differences

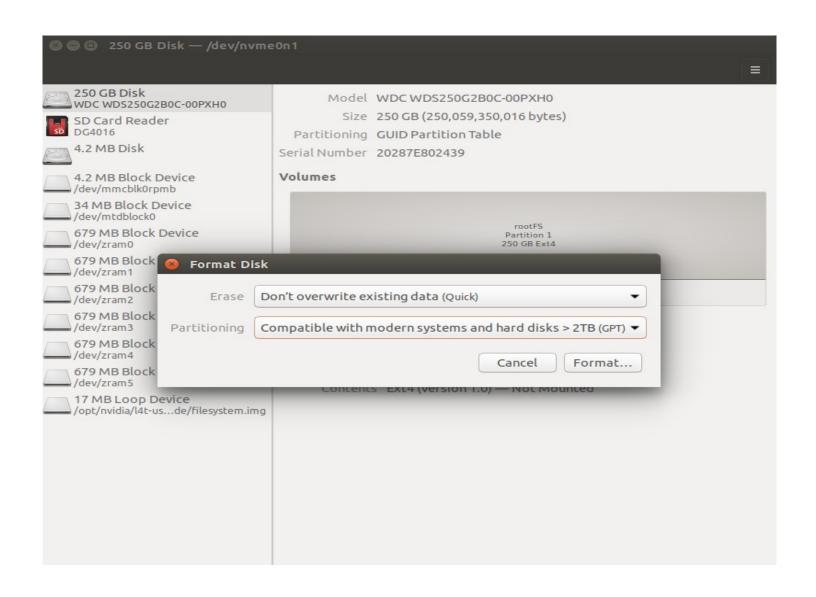
```
🔞 🖨 🗈 nvidia@nvidia-xavier-nx: /media/nvidia/5169909d-5f5f-4b5e-963d-dce9260d93d7/boot/extlinu
nvidia@nvidia-xavier-nx:/media/nvidia/5169909d-5f5f-4b5e-963d-dce9260d93d7/boot/
extlinux$ sudo gedit extlinux.conf
[sudo] password for nvidia:
** (gedit:9242): WARNING **: 08:48:19.731: Set document metadata failed: Setting
 attribute metadata::gedit-spell-language not supported
** (gedit:9242): WARNING **: 08:48:19.732: Set document metadata failed: Setting
 attribute metadata::gedit-encoding not supported
** (gedit:9242): WARNING **: 08:48:26.789: Set document metadata failed: Setting
 attribute metadata::gedit-position not supported
nvidia@nvidia-xavier-nx:/media/nvidia/5169909d-5f5f-4b5e-963d-dce9260d93d7/boot/
extlinux$ sudo reboot
```

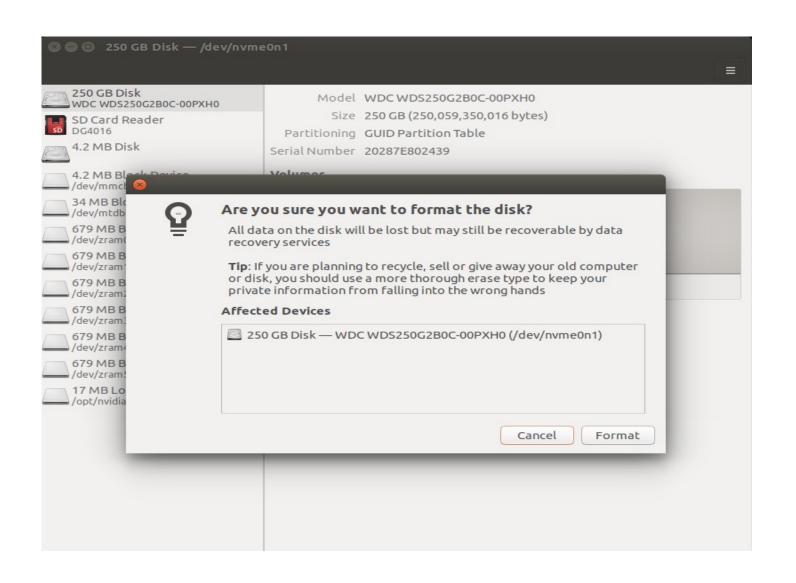
9-) After the system rebooted, type "df -h". As you can see the eMMC connected on root.

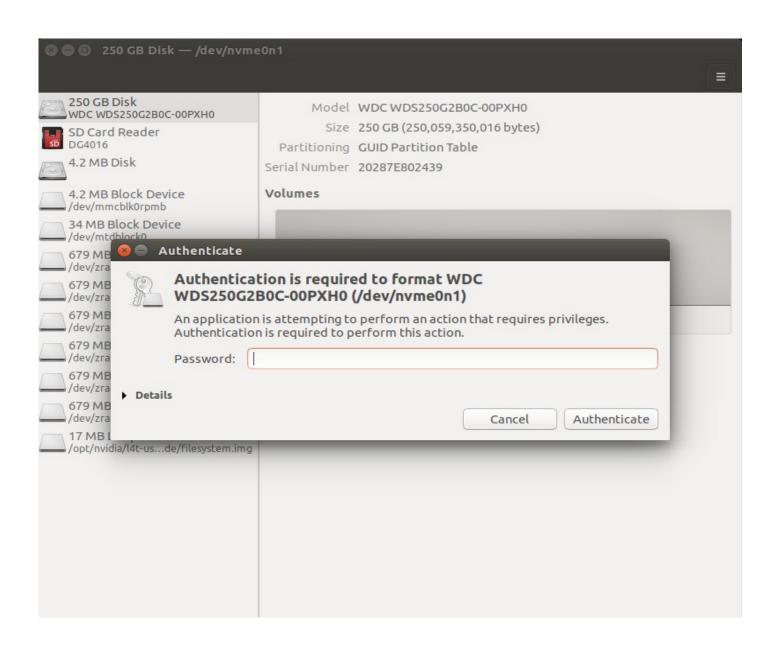


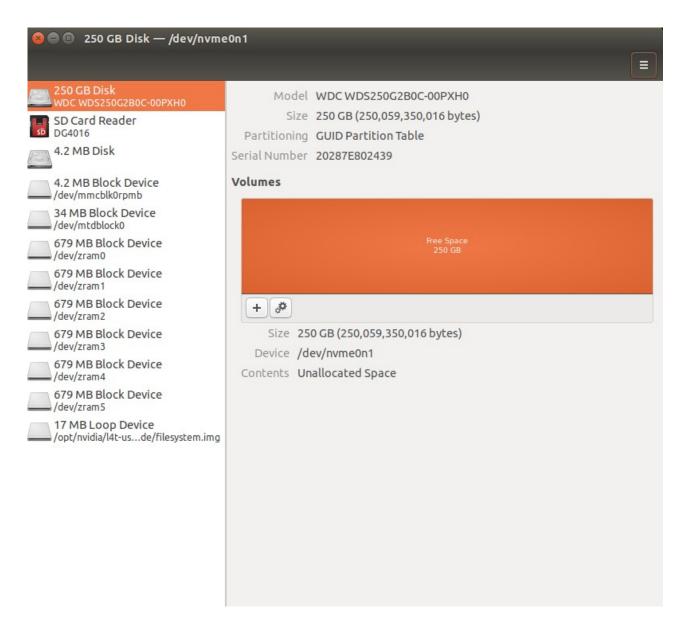
10-) Open the "Disks" application (or type "gnome-disks" from terminal). Select the SSD drive & format it



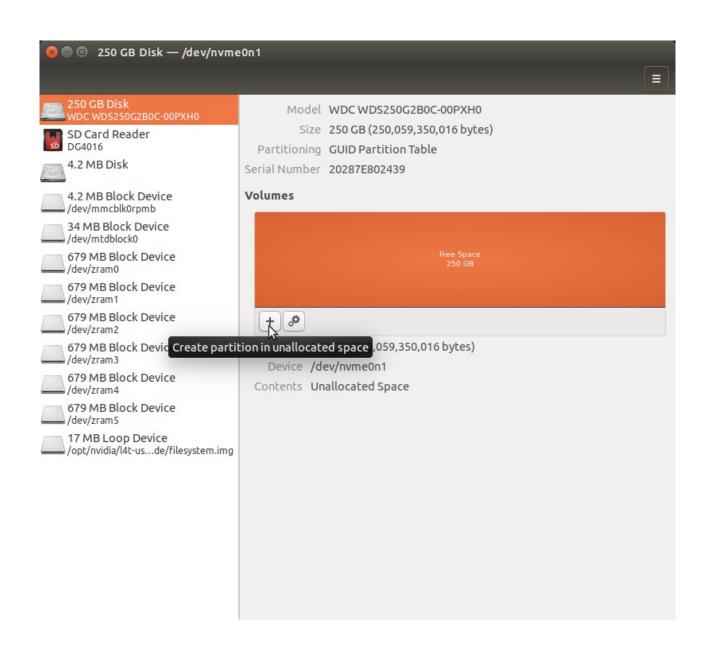


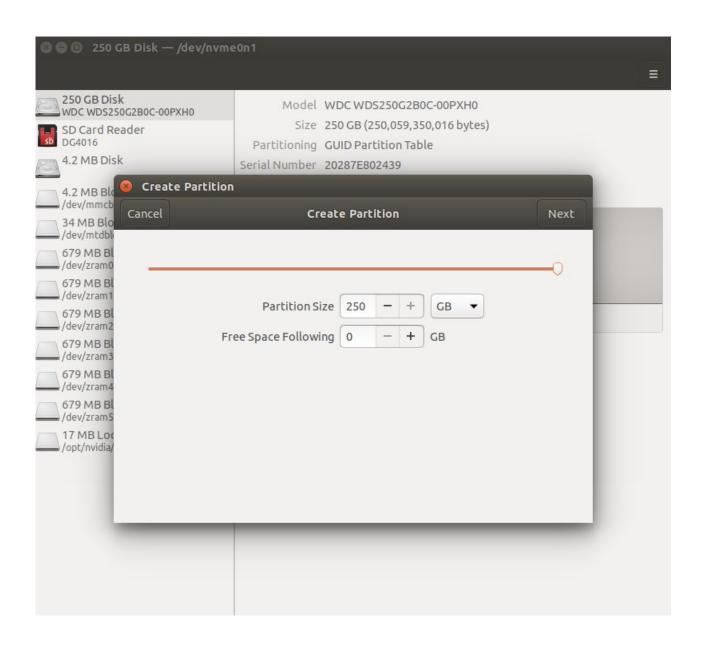


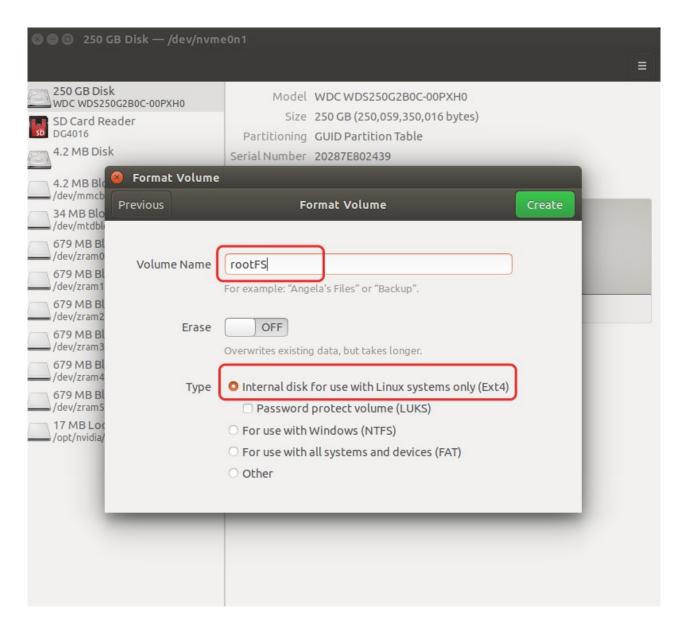




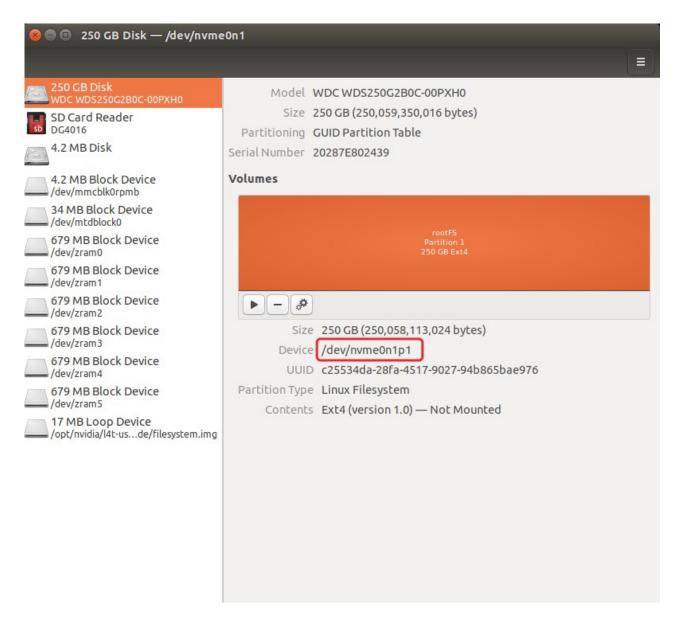
11-) Afterwards, format it as ext4.



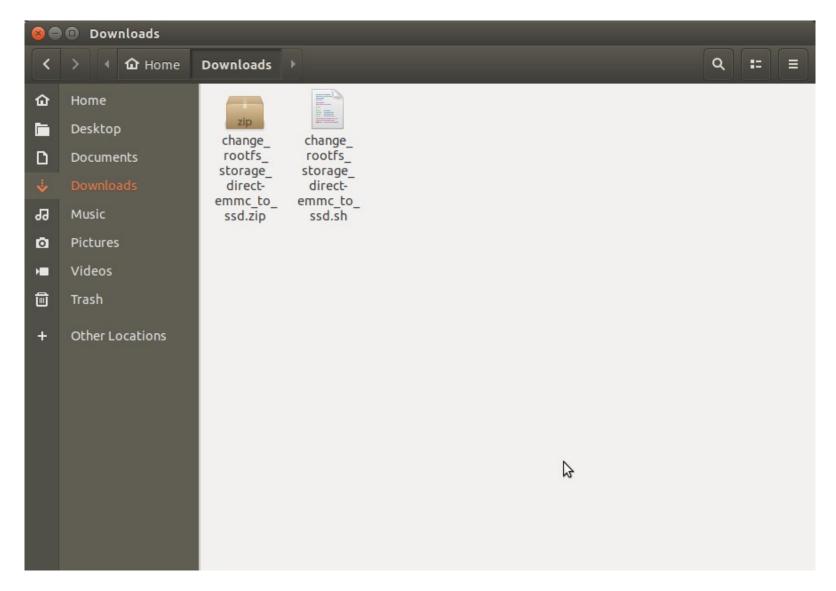




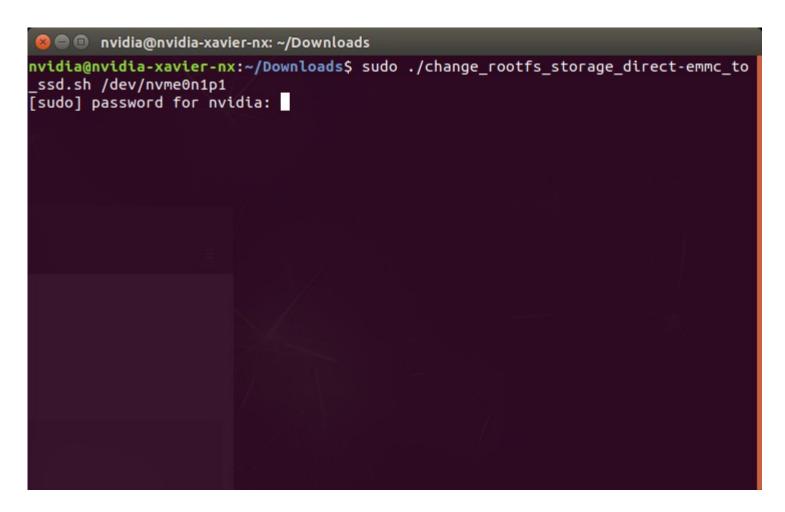
Hint: Note that the SSD Drive's mounting point. We will use it on transferring step.



12-) Download the root file-system transferring script file from here & extract it: https://github.com/mistelektronik/forecr_blog_files/raw/master/change_rootfs_storage_direct-emmc_to_ssd.zip



13-) Open a terminal from this folder and type this command below (our SSD mounted on /dev/nvme0n1p1) "sudo ./change_rootfs_storage_direct-emmc_to_ssd.sh /dev/nvme0n1p1"



14-) After a few minutes later, it completed the steps.

```
🔞 🗐 🗊 nvidia@nvidia-xavier-nx: ~/Downloads
nvidia@nvidia-xavier-nx:~/Downloads$ sudo ./change rootfs storage direct-emmc to
ssd.sh /dev/nvme0n1p1
[sudo] password for nvidia:
Sorry, try again.
[sudo] password for nvidia:
 11,595,407,399 95% 65.46MB/s
                                   0:02:48 (xfr#130603, to-chk=0/190018)
The rootfs have copied to SSD.
                           APPEND ${cbootargs} quiet root=/dev/mmcblk0p1 rw roo
Before extlinux.conf:
twait rootfstype=ext4 console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifna
mes=0
                           APPEND ${cbootargs} quiet root=/dev/nvme0n1p1 rw roo
After extlinux.conf:
twait rootfstype=ext4 console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifna
mes=0
extlinux.conf file updated.
Reboot for changes to take effect.
nvidia@nvidia-xavier-nx:~/Downloads$
```

15-) Then, type "sudo reboot"

```
🔞 🗐 🗊 nvidia@nvidia-xavier-nx: ~/Downloads
nvidia@nvidia-xavier-nx:~/Downloads$ sudo ./change rootfs storage direct-emmc to
ssd.sh /dev/nvme0n1p1
[sudo] password for nvidia:
Sorry, try again.
[sudo] password for nvidia:
 11,595,407,399 95%
                                    0:02:48 (xfr#130603, to-chk=0/190018)
                      65.46MB/s
The rootfs have copied to SSD.
Before extlinux.conf:
                            APPEND ${cbootargs} quiet root=/dev/mmcblk0p1 rw roo
twait rootfstype=ext4 console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifna
mes=0
After extlinux.conf:
                           APPEND ${cbootargs} quiet root=/dev/nvme0n1p1 rw roo
twait rootfstype=ext4 console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifna
mes=0
extlinux.conf file updated.
Reboot for changes to take effect.
nvidia@nvidia-xavier-nx:~/Downloads$ sudo reboot
```

16-) Afteer the JEtson opened successfully, type "df -h" again to check the SSD mounted as root file-system

