1. Install rootOnNVME software

Open the NX terminal and enter the following command in the user directory.

git clone https://github.com/jetsonhacks/rootOnNVMe.git

Enter rootOnNVME directory and view the files.

cd rootOnNVMe/

ls

```
jetson@jetson-nx:~$ git clone https://github.com/jetsonhacks/rootOnNVMe.git
Cloning into 'rootOnNVMe'...
remote: Enumerating objects: 34, done.
remote: Counting objects: 100% (34/34), done.
remote: Compressing objects: 100% (30/30), done.
remote: Total 34 (delta 12), reused 17 (delta 3), pack-reused 0
Unpacking objects: 100% (34/34), done.
jetson@jetson-nx:~$ cd rootOnNVMe/
jetson@jetson-nx:~/rootOnNVMe$ ls
copy-rootfs-ssd.sh  data  LICENSE  README.md  setup-service.sh
jetson@jetson-nx:~/rootOnNVMe$
```

2. Copy system files

Enter the following command to copy the files to the M.2 SSD.

```
jetson@jetson-nx:~/rootOnNVMe$ ./copy-rootfs-ssd.sh
[sudo] password for jetson:
    119,177,774  98%    83.88MB/s    0:00:01 (xfr#1142, ir-chk=1202/2777)
```

3. Start the service, enter the NX password after running, and press the Enter key to confirm.

If you see the following information, it means that the system has been successfully moved to the M.2 SSD.

./setup-service.sh

```
jetson@jetson-nx:~/rootOnNVMe$ ./setup-service.sh
==== AUTHENTICATING FOR org.freedesktop.systemd1.reload-daemon ===
Authentication is required to reload the systemd state.
Authenticating as: jetson,,, (jetson)
Password:
==== AUTHENTICATION COMPLETE ===
Created symlink /etc/systemd/system/default.target.wants/setssdroot.service → /e
tc/systemd/system/setssdroot.service.
Service to set the rootfs to the SSD installed.
Make sure that you have copied the rootfs to SSD.
Reboot for changes to take effect.
jetson@jetson-nx:~/rootOnNVMe$
```

4. Restart the NX system.

sudo reboot

```
jetson@jetson-nx:~/rootOnNVMe$ sudo reboot
```

5. Open the NX terminal and enter the following command to view the storage space.

df -h

```
jetson@jetson-nx:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
none            3,5G     0  3,5G   0% /dev
tmpfs           3,8G   40K  3,8G   1% /dev/shm
tmpfs           3,8G   30M  3,8G   1% /run
tmpfs           5,0M  4,0K  5,0M   1% /run/lock
tmpfs           3,8G     0  3,8G   0% /sys/fs/cgroup
/dev/nvme0n1p1  117G   13G   99G  12% /
tmpfs           778M   12K  778M   1% /run/user/120
tmpfs           778M  116K  778M   1% /run/user/1000
/dev/mmcblk0p1   14G   13G  701M  95% /media/jetson/6f1f5ce0-dc15-4aae-a9c8-f3a4
d36fb7f2
jetson@jetson-nx:~$
```

We can see that the M.2 SSD will be automatically mounted on the root directory when it is powered on.

Opening the file manager can also see that the system space has become larger.