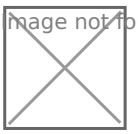
Get the “/dev/disk/by-id” information for FSTab from the udevadm command

To start with, you will need to use the disk name **only** without the partition name. When you go into */dev/disk/by-id* and investigate the names, it will be named “part-1, part-2” etc at the end of the ID name. Ignore these for now. Do fdisk -l and get the disk name.



Run the below command:

udevadm info -q symlink --path=/sys/block/<DRIVE-NAME> | awk '{print "/dev/" $1}'





Repeat this command until you have **“nvme-eui.ID”** or **"sci-ID"** as the first time you run it, it may list the **“by-path/”** statement which isn't helpful or the actual **“by-id/DISKNAME”** which is what we want.

Once you've found the ID, go to /dev/disk/by-id and look for the partition you want from fdisk -l. Use this to correlate the lists together.

```
Device       Start         End     Sectors  Size Type
/dev/sda1     2048        4095        2048    1M BIOS boot
/dev/sda2     4096     4198399     4194304    2G Linux filesystem
/dev/sda3  4198400 41023266815 41019068416 19.1T Linux filesystem
```

```
root@node1:/dev/disk/by-id# ls
dm-name-ubuntu--vg-ubuntu--lv
dm-uuid-LVM-0x2FJev1XxGIiK3hSYv9017LUdAdPuC0C7WnLnUXTD1eieg1Rq1WLxNTCcUsThAv
lvm-pv-uuid-cLhLmV-G8rW-mNOc-ly8B-zqL0-AGkF-XYPJLc
nvme-CT4000P3PSSD8_2323E6DFEEFA
nvme-CT4000P3PSSD8_2323E6DFEEFA-part1
nvme-CT4000P3PSSD8_2323E6DFEF05
nvme-CT4000P3PSSD8_2323E6DFEF05-part1
nvme-eui.6479a77bf000006d
nvme-eui.6479a77bf000006d-part1 <-
nvme-eui.6479a77bf000009b
nvme-eui.6479a77bf000009b-part1 <-
scsi-331402ec0154ab8d0
scsi-331402ec0154ab8d0-part1 <-
scsi-331402ec0154ab8d0-part2 <-
scsi-331402ec0154ab8d0-part3 <-
scsi-SATA_CT1000MX500SSD1_2321E6DBA73F
scsi-SATA_CT1000MX500SSD1_2321E6DBA73F-part1
scsi-SATA_CT1000MX500SSD1_2321E6DBA73F-part2
scsi-SATA_CT1000MX500SSD1_2321E6DBA73F-part3
wwn-0x31402ec0154ab8d0
wwn-0x31402ec0154ab8d0-part1
wwn-0x31402ec0154ab8d0-part2
wwn-0x31402ec0154ab8d0-part3
```

For example, /dev/sda3 is going to be **"part-3"** from the ID list.

```
Disk /dev/nvme0n1: 3.64 TiB, 4000787030016 bytes, 7814037168 sectors
Disk model: CT4000P3PSSD8
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: E939BE4A-F338-A847-BF08-15941DFD4C6F

Device         Start        End    Sectors  Size Type
/dev/nvme0n1p1  2048 7814037134 7814035087  3.6T Linux filesystem Part1


Disk /dev/nvme1n1: 3.64 TiB, 4000787030016 bytes, 7814037168 sectors
Disk model: CT4000P3PSSD8
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: EFF4E460-A8D8-534D-9231-7677EA87C983

Device         Start        End    Sectors  Size Type
/dev/nvme1n1p1  2048 7814037134 7814035087  3.6T Linux filesystem Part1


Disk /dev/sda: 931.51 GiB, 1000204886016 bytes, 1953525168 sectors
Disk model: CT1000MX500SSD1
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: gpt
Disk identifier: 484598C5-0B95-44E5-86D2-305FBA1E4BF8

Device       Start        End    Sectors   Size Type
/dev/sda1     2048    2203647    2201600     1G EFI System Part1
/dev/sda2  2203648    6397951    4194304     2G Linux filesystem Part2
/dev/sda3  6397952 1953521663 1947123712 928.5G Linux filesystem Part3
```

DO NOT IGNORE THIS WARNING. IT IS CRUCIAL TO READ.

Note: Make sure you set the drive to ext4 before rebooting so it actually knows how to handle the partition. If you don't, the partition won't actually mount and when you reboot you will get put into **initramfs**, so have rescue mode on standby with a KVM!

```
root@node1:/dev/disk/by-id# mkfs.ext4 /dev/nvme0n1p1
```

Go into nano /etc/fstab and add the /dev/disk/by-id/IDNAME-PARTX into the FSTab. Example below for **nvme0n1p1's part 1**, **the partition for the datastore**, **ext4**, **defaults**, **0**, **1**.

```
# NVMe Drives
/dev/disk/by-id/nvme-eui.6479a77bf000006d-part1 /srv/datastore1 ext4 defaults 0 1
/dev/disk/by-id/nvme-eui.6479a77bf000009b-part1 /srv/datastore2 ext4 defaults 0 1
```

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