开机安装完host端的doca环境,使用 dmesg -1 err 发现错误:

之后使用doca comm channel的连接例子程序:

提示device未发现, 之后再使用 dmesg -1 err:

```
[25373.624751] NNT Driver:: function name:create file name mft, line:142 | MFT device name created: id: 41686, slot id: 0, device
name: /dev/mst/mt41686_pciconf0 domain: 0x0 bus: 0x3b
[25373.624869] NNT Driver:: function name:create file name mft, line:142 | MFT device name created: id: 41686, slot id: 1, device
name: /dev/mst/mt41686 pciconf1 domain: 0x0 bus: 0x3b
[31796.525311] PKCS#7 signature not signed with a trusted key
[33735.698239] mlx5 core 0000:3b:00.0: mlx5 enter error state:121:(pid 2272): start
[33735.698326] mlx5_core 0000:3b:00.0: mlx5_enter_error_state:128:(pid 2272): end
[33736.210258] mlx5_core 0000:3b:00.1: mlx5_enter_error_state:121:(pid 1022): start
[33736.210336] mlx5 core 0000:3b:00.1: mlx5 enter error state:128:(pid 1022): end
[33850.384644] mlx5_core 0000:3b:00.0: starting health recovery flow
[33903.632697] mlx5_core 0000:3b:00.1: starting health recovery flow
[34120.468363] mlx5 core 0000:3b:00.1: mlx5 enter error state:121:(pid 1022): start
[34120.468460] mlx5_core 0000:3b:00.1: mlx5_enter_error_state:128:(pid 1022): end
[34123.028382] mlx5_core 0000:3b:00.0: mlx5_enter_error_state:121:(pid 68619): start
[34123.028473] mlx5_core 0000:3b:00.0: mlx5_enter_error_state:128:(pid 68619): end
[34235.413436] mlx5_core 0000:3b:00.1: starting health recovery flow
[34288.661804] mlx5_core 0000:3b:00.0: starting health recovery flow
```

然后我搜索关于 mlx5_core 的问题,在一篇blog (关于Infiniband网卡安装、使用) 上发现命令 sudo hca_self_test.ofed:

```
oroot@node138:/opt/mellanox/doca/samples/doca comm channel/cc client# sudo hca self test.ofed
 ---- Performing Adapter Device Self Test ----
 Number of CAs Detected ..... 2
 PCI Device Check ...... PASS
 Kernel Arch ..... x86_64
 Host Driver Version ...... OFED-internal-5.8-1.0.1: 4.15.0-197-generic
 Host Driver RPM Check ...... PASS
 Firmware on CA #0 HCA ..... v24.35.1012
 Firmware on CA #1 HCA ...... v24.35.1012
 Host Driver Initialization ..... FAIL
 Number of CA Ports Active ..... NA
 Error Counter Check ...... NA
 Kernel Syslog Check ...... NA
 Node GUID on CA #0 (HCA) ...... 04:3f:72:03:00:a0:d8:17
 Node GUID on CA #1 (HCA) ..... 04:3f:72:03:00:a0:d8:16
 ----- DONE -----
```

这里可以看出 Host Driver Initialization 是处于FAIL状态的,这说明Device是有问题的。

上面那篇blog上有两个命令我看着好像是重启相关系统,上面的Infiniband网卡安装过程也需要用到,我就尝试着使用了以下两个命令

```
sudo /etc/init.d/openibd restart
sudo /etc/init.d/opensmd restart
```

之后再使用 sudo hca_self_test.ofed 查看:

```
• root@node138:/opt/mellanox/doca/samples/doca comm channel/cc client# sudo hca self test.ofed
 ---- Performing Adapter Device Self Test ----
 Number of CAs Detected ...... 2
 PCI Device Check ...... PASS
 Kernel Arch ..... x86 64
 Host Driver Version ...... OFED-internal-5.8-1.0.1: 4.15.0-197-generic
 Host Driver RPM Check ...... PASS
 Firmware on CA #0 HCA ...... v24.35.1012
 Firmware on CA #1 HCA ...... v24.35.1012
 Host Driver Initialization ..... PASS
 Number of CA Ports Active ..... 0
 Port State of Port #1 on CA #0 (HCA)..... DOWN (InfiniBand)
 Port State of Port #1 on CA #1 (HCA).... DOWN (InfiniBand)
 Error Counter Check on CA #0 (HCA)..... PASS
 Error Counter Check on CA #1 (HCA)..... PASS
 Kernel Syslog Check ...... PASS
 Node GUID on CA #0 (HCA) ..... 04:3f:72:03:00:a0:d8:16
 Node GUID on CA #1 (HCA) ...... 04:3f:72:03:00:a0:d8:17
 ----- DONE -----
```

发现 Host Driver Initialization 已经成功,之后在运行cc例子程序,成功运行。

```
    root@node138:/opt/mellanox/doca/samples/doca_comm_channel/cc_client# ./build/doca_cc_client
[13:43:57:547971][DOCA][INF][CC_CLIENT:130]: Connection to server was established successfully
[13:43:57:548169][DOCA][INF][CC_CLIENT:168]: Server response: Message_from the server
```

以上解决问题的blog网址为: Infiniband网卡安装、使用总结_abin在路上的博客-CSDN博客_infiniband网卡配置