

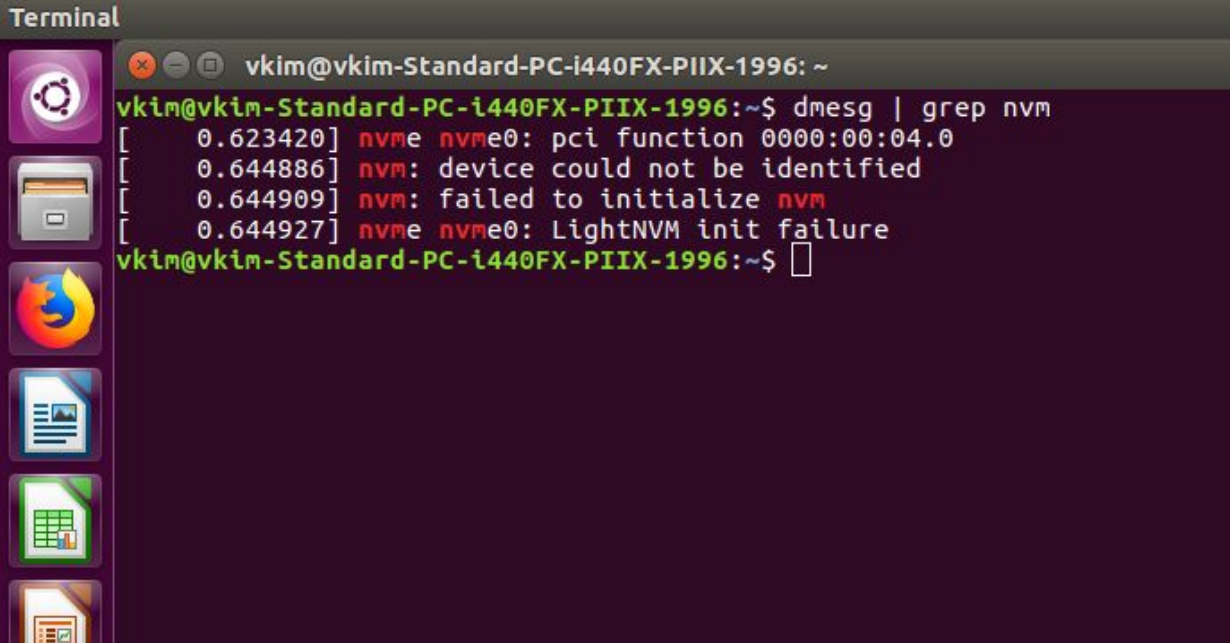
## Open Channel SSD Status

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1. Install qemu-nvme
2. install guest-os (ubuntu 16.04)
3. change kernel. (4.4, 4.7, 4.16)
  - a. I have done kernel compile several times. But nothing works well.
4. execute

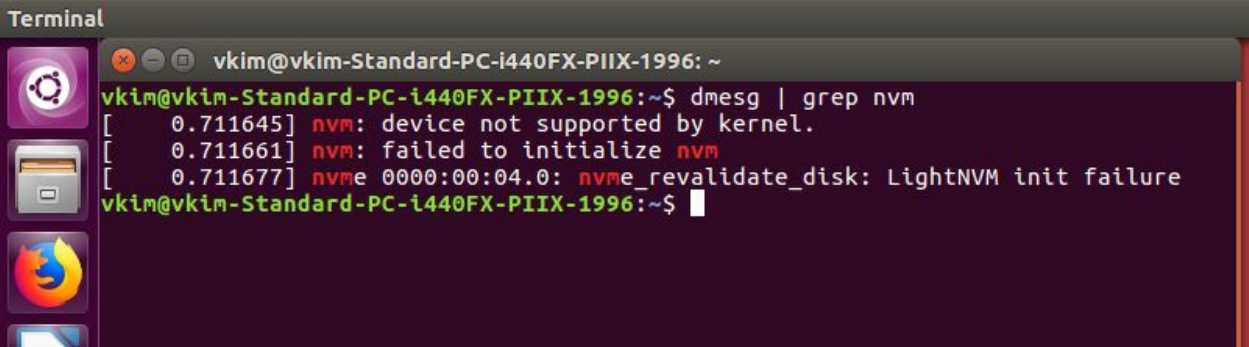
```
./bin/qemu-system-x86_64 -hda ubuntu.img --enable-kvm -m 4G -smp 2 -drive \
file=./ocssd_backend.img,format=raw,if=none,id=mynvme -device \
nvme,drive=mynvme,serial=deadbeef,namespaces=1,lnum_pu=4,lstrict=1,meta=1
6,mc=3,\ id=nvme0n1
```

5. Error  
kernel version 4.16

A terminal window titled "Terminal" showing the output of the command "dmesg | grep nvme". The output displays four lines of kernel messages: "[ 0.623420] nvme nvme0: pci function 0000:00:04.0", "[ 0.644886] nvme: device could not be identified", "[ 0.644909] nvme: failed to initialize nvme", and "[ 0.644927] nvme nvme0: LightNVm init failure". The prompt is "vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~\$".

```
Terminal
vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~$ dmesg | grep nvme
[ 0.623420] nvme nvme0: pci function 0000:00:04.0
[ 0.644886] nvme: device could not be identified
[ 0.644909] nvme: failed to initialize nvme
[ 0.644927] nvme nvme0: LightNVm init failure
vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~$
```

- kernel version 4.4

A terminal window titled "Terminal" showing the output of the command "dmesg | grep nvme". The output displays three lines of kernel messages: "[ 0.711645] nvme: device not supported by kernel.", "[ 0.711661] nvme: failed to initialize nvme", and "[ 0.711677] nvme 0000:00:04.0: nvme\_revalidate\_disk: LightNVm init failure". The prompt is "vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~\$".

```
Terminal
vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~$ dmesg | grep nvme
[ 0.711645] nvme: device not supported by kernel.
[ 0.711661] nvme: failed to initialize nvme
[ 0.711677] nvme 0000:00:04.0: nvme_revalidate_disk: LightNVm init failure
vkim@vkim-Standard-PC-i440FX-PIIX-1996: ~$
```