



SR-IOV Troubleshooting

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Unable to create VFs

1. Please make sure that SR-IOV is enabled in BIOS.
2. Verify SRIOV_EN is true and NUM_OF_VFS bigger than 1. Run:

```
# mlxconfig -d /dev/mst/mt41686_pciconf0 -e q | grep -i "SRIOV_EN\|num_of_vf"
Configurations:      Default      Current      Next Boot
*   NUM_OF_VFS      16          16          16
*   SRIOV_EN        True(1)     True(1)     True(1)
```

3. Verify that GRUB_CMDLINE_LINUX="iommu=pt intel_iommu=on pci=assign-busses".

No traffic between VF to external host

1. Please verify creation of representors for VFs inside the NVIDIA® BlueField® networking platform (DPU or SuperNIC). Run:

```
# /opt/mellanox/iproute2/sbin/rdma link | grep -i up
...
link mlx5_0/2 state ACTIVE physical_state LINK_UP netdev pf0vf0
...
```

2. Make sure the representors of the VFs are added to the bridge. Run:

```
# ovs-vsctl add-port <bridge_name> pf0vf0
```

3. Verify VF configuration. Run:

```
$ ovs-vsctl show
bb993992-7930-4dd2-bc14-73514854b024
    Bridge ovsbr1
        Port pf0vf0
```

```
Interface pf0vf0
  type: internal
Port pf0hpf
  Interface pf0hpf
Port pf0sf0
  Interface pf0sf0
Port p0
  Interface p0
Bridge ovsbr2
  Port ovsbr2
    Interface ovsbr2
      type: internal
Port pf1sf0
  Interface pf1sf0
Port p1
  Interface p1
Port pf1hpf
  Interface pf1hpf
ovs_version: "2.14.1"
```

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