

# Configuring: How do I create an InfiniBand subinterface?

*How do I create an IB subinterface?*

Subinterfaces divide primary (parent) interfaces to provide traffic isolation. Partition assignments distinguish subinterfaces from parent interfaces. Subinterface creation and removal is discussed in the Linux kernel documentation (see <https://www.kernel.org/doc/Documentation/infiniband/ipoib.txt>).

## Method 1

1. Make sure that the software image which is used to provision the nodes has the required kernel modules to load the IB interface on startup and add them if these modules are missing:

```
# cmsg
```

```
% softwareimage kernelmodules <software-image>
```

```
% list
```

```
[...]
```

```
ib_ipoib
```

```
rdma_ucm
```

```
ib_ucm
```

```
ib_uverbs
```

```
ib_umad
```

```
rdma_cm
```

```
ib_cm
```

```
iw_cm
```

```
ib_addr
```

```
ib_sa
```

```
ib_qib
```

```
ib_mad
```

```
ib_core
```



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```
# vim /cm/images/cuda-rc/etc/rc.local
```

```
[...]
```

```
echo 0x8002 > /sys/class/net/ib0/create_child
```

```
[...]
```

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