



Using the Cisco IMC CLI to Configure the RoCEv2 Interface

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Configuring RoCEv2 Interface Using Cisco IMC CLI

Use the following steps to configure RoCEv2 interface using Cisco IMC CLI interface.

Before you begin

- Ensure that you are familiar with Cisco IMC CLI interface.
- You must log in with admin privileges.

SUMMARY STEPS

1. `server # scope chassis`
2. `server/chassis # scope adapter index_number`
3. `server/chassis/adapter # create host-eth-if vNIC_name`
4. `server/chassis/adapter/host-eth-if ## set rocev2 enabled`
5. `server/chassis/adapter/host-eth-if ## set rdma-cos 5`
6. `server/chassis/adapter/host-eth-if ## set rdma_mr 131072`
7. `server/chassis/adapter/host-eth-if ## set rdma_qp 1024`
8. `server/chassis/adapter/host-eth-if ## set rdma_resgrp 8`
9. `server/chassis/adapter/host-eth-if ## scope comp-queue`
10. `server/chassis/adapter/host-eth-if/comp-queue ## set cq-count 2`
11. `server/chassis/adapter/host-eth-if/comp-queue ## exit`
12. `server/chassis/adapter/host-eth-if ## scope trans-queue`
13. `server/chassis/adapter/host-eth-if/trans-queue ## set wq-count 1`
14. `server/chassis/adapter/host-eth-if/trans-queue ## set wq-ring-size 256`
15. `server/chassis/adapter/host-eth-if/trans-queue ## exit`
16. `server/chassis/adapter/host-eth-if ## scope interrupt`
17. `server/chassis/adapter/host-eth-if/interrupt ## set interrupt-count 256`

18. server/chassis/adapter/host-eth-if/interrupt **## set interrupt-mode MSIx**
19. server/chassis/adapter/host-eth-if/interrupt **## commit**

DETAILED STEPS

| | Command or Action | Purpose |
|----------------|--|---|
| Step 1 | server # scope chassis | Enters chassis command mode. |
| Step 2 | server/chassis # scope adapter <i>index_number</i> | Enters the command mode for the adapter card at the PCI slot number specified by <i>index_number</i> . Note Ensure that the server is powered on before you attempt to view or change adapter settings. To view the <i>index</i> of the adapters configured on you server, use the show adapter command. |
| Step 3 | server/chassis/adapter # create host-eth-if <i>vNIC_name</i> | Creates a vNIC. |
| Step 4 | server/chassis/adapter/host-eth-if ## set rocev2 enabled | Enables RoCEv2 on vNIC. |
| Step 5 | server/chassis/adapter/host-eth-if ## set rdma-cos 5 | Sets RDMA CoS 5 for RoCEv2 vNIC. |
| Step 6 | server/chassis/adapter/host-eth-if ## set rdma_mr 131072 | Sets RDMA Memory Region as 131072 for RoCEv2 vNIC. |
| Step 7 | server/chassis/adapter/host-eth-if ## set rdma_qp 1024 | Sets RDMA Queue Pairs as 1024 for RoCEv2 vNIC. |
| Step 8 | server/chassis/adapter/host-eth-if ## set rdma_resgrp 8 | Sets RDMA Resource Groups as 8 for RoCEv2 vNIC. |
| Step 9 | server/chassis/adapter/host-eth-if ## scope comp-queue | Enters the Completion Queue command mode. |
| Step 10 | server/chassis/adapter/host-eth-if/comp-queue ## set cq-count 2 | Sets Completion Queue Count as 2 for vNIC. |
| Step 11 | server/chassis/adapter/host-eth-if/comp-queue ## exit | Exits to host Ethernet interface command mode. |
| Step 12 | server/chassis/adapter/host-eth-if ## scope trans-queue | Enters the Transmit Queue command mode. |
| Step 13 | server/chassis/adapter/host-eth-if/trans-queue ## set wq-count 1 | Sets Transmit Queue Count as 1 for vNIC. |
| Step 14 | server/chassis/adapter/host-eth-if/trans-queue ## set wq-ring-size 256 | Sets Transmit Queue Ring Buffer Size as 256 for vNIC. |
| Step 15 | server/chassis/adapter/host-eth-if/trans-queue ## exit | Exits to host Ethernet interface command. |
| Step 16 | server/chassis/adapter/host-eth-if ## scope interrupt | Enters Interrupt command mode. |
| Step 17 | server/chassis/adapter/host-eth-if/interrupt ## set interrupt-count 256 | Sets Interrupt Count as 256 for vNIC. |
| Step 18 | server/chassis/adapter/host-eth-if/interrupt ## set interrupt-mode MSIx | Sets the Interrupt Mode as MSIx |

| | Command or Action | Purpose |
|---------|--|--|
| Step 19 | server/chassis/adapter/host-eth-if/interrupt *# commit | Commits the transaction to the system configuration. Note The changes take effect when the server is rebooted. |

Example

```
server# scope chassis
server/chassis # scope adapter 1
server/chassis/adapter # create host-eth-if vNIC_Test
server/chassis/adapter/host-eth-if *# set rocev2 enabled
server/chassis/adapter/host-eth-if *# set rdma-cos 5
server/chassis/adapter/host-eth-if *# set rdma_mr 131072
server/chassis/adapter/host-eth-if *# set rdma_qp 1024
server/chassis/adapter/host-eth-if *# set rdma_resgrp 8
server/chassis/adapter/host-eth-if *# scope comp-queue
server/chassis/adapter/host-eth-if/comp-queue *# set cq-count 2
server/chassis/adapter/host-eth-if/comp-queue *# exit
server/chassis/adapter/host-eth-if *# scope trans-queue
server/chassis/adapter/host-eth-if/trans-queue *# set wq-count 1
server/chassis/adapter/host-eth-if/trans-queue *# set wq-ring-size 256
server/chassis/adapter/host-eth-if/trans-queue *# exit
server/chassis/adapter/host-eth-if *# scope interrupt
server/chassis/adapter/host-eth-if/interrupt *# set interrupt-count 256
server/chassis/adapter/host-eth-if/interrupt *# set interrupt-mode MSIx
server/chassis/adapter/host-eth-if/interrupt *# commit
```

Deleting RoCEv2 Interface Using Cisco IMC CLI

SUMMARY STEPS

1. server # **scope chassis**
2. server/chassis # **scope adapter** *index_number*
3. server/chassis/adapter # **scope host-eth-if** *vNIC_name*
4. server/chassis/adapter/host-eth-if # **set rocev2 disabled**
5. server/chassis/adapter/host-eth-if *# **commit**

DETAILED STEPS

| | Command or Action | Purpose |
|--------|---|--|
| Step 1 | server # scope chassis | Enters the chassis command mode. |
| Step 2 | server/chassis # scope adapter <i>index_number</i> | Enters the command mode for the adapter card at the PCI slot number specified by <i>index_number</i> . |

| | Command or Action | Purpose |
|---------------|---|---|
| | | <p>Note Ensure that the server is powered on before you attempt to view or change adapter settings. To view the <i>index</i> of the adapters configured on your server, use the show adapter command.</p> |
| Step 3 | server/chassis/adapter # scope host-eth-if vNIC_name | Enters the command mode for the vNIC specified by <i>vNIC_name</i> . |
| Step 4 | server/chassis/adapter/host-eth-if # set rocev2 disabled | Disables RoCE properties on the vNIC. |
| Step 5 | server/chassis/adapter/host-eth-if *# commit | Commits the transaction to the system configuration. <p>Note The changes take effect when the server is rebooted.</p> |

Example

```
server# scope chassis
server/chassis # scope adapter 1
server/chassis/adapter # scope host-eth-if vNIC_Test
server/chassis/adapter/host-eth-if # set rocev2 disabled
server/chassis/adapter/host-eth-if *# commit
```