



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 your 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
Step 19	server/chassis/adapter/host-eth-if/interrupt ## commit	Commits the transaction to the system configuration.

	Command or Action	Purpose
		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> . 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.

	Command or Action	Purpose
Step 3	server/chassis/adapter # scope host-eth-if <i>vNIC_name</i>	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. Note The changes take effect when the server is rebooted.

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
```