Using the UCS Manager CLI to Configure the RoCEv2 Interface

Configure Windows SMBDirect RoCEv2 Interface using UCS Manager CLI

Use the following steps to configure the RoCEv2 interface in the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	Purpose

Step 1	**Example:**
	`UCS-A # scope service-profile server chassis-id /`
	`blade-id or rack_server-id`
		Enter the service profile for the specified chassis, blade or UCS managed rack server ID.

Step 2	**Example:** `UCS-A /org/service-profile # show vnic`	Display the vNICs available on the server.
Step 3	**Example:** `UCS-A /org/service-profile # scope vnic vnic name`	Enter the vnic mode for the specified vNIC.
Step 4	To configure Windows SMBDirect RoCEv2 Mode 1: **Example:**	Specifies a Windows SMBDirect RoCEv2 adapter policy for RoCEv2 Mode 1.

	Command or Action	Purpose
| | ```
 UCS-A /org/service-profile/vnic # set
adapter-policy Win-HPN-SMBd
``` | |
| Step 5 | To configure Windows SMBDirect RoCEv2 Mode 2:<br><br>**Example:**<br><br>```
 UCS-A# scope org
UCS-A /org # create vmq-conn-policy policy name
UCS-A /org/vmq-conn-policy* # set multi-queue
enabled
UCS-A /org/vmq-conn-policy* # set
vmmq-sub-vnic-count 64
UCS-A /org/vmq-conn-policy* # set
vmmq-adaptor-profile-name MQ-SMBd
UCS-A /org/vmq-conn-policy* # commit-buffer
UCS-A /org/vmq-conn-policy #
``` | Configures Windows Mode 2, after creating a VMQ connection policy and assigning the adapter policy **MQ-SMBd**: |
| Step 6 | **Example:**<br><br>```
 UCS-A /org/service-profile/vnic* # commit-buffer
``` | Commit the transaction to the system configuration. |

This example shows how to configure the RoCEv2 Win-HPN-SMBd adapter policy:

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:

Name     Fabric ID       Dynamic MAC Addr  Virtualization Preference
--------   -------------       ---------------------------
-----------------------------------
eth00        A B              00:25:B5:3A:84:00         NONE
eth01        A                00:25:B5:3A:84:01          NONE
eth02        B                00:25:B5:3A:84:02          NONE


UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy Win-HPN-SMBd
UCS-A /org/service-profile/vnic* # commit-buffer
UCS-A /org/service-profile/vnic #
```

Configuring the Linux RoCEv2 Interface Using the UCS Manager CLI

Use the following steps to configure the RoCEv2 interface for Linux in the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	Purpose
Step 1	**Example:** `UCS-A # scope service-profile server chassis-id / blade-id or rack_server-id`	Enter the service profile for the specified chassis, blade or UCS managed rack server ID.
Step 2	**Example:** `UCS-A /org/service-profile # show vnic`	Display the vNICs available on the server.
Step 3	**Example:** `UCS-A /org/service-profile # scope vnic vnic name`	Enter the vnic mode for the specified vNIC.
Step 4	**Example:** `UCS-A /org/service-profile/vnic # set adapter-policy Linux-NVMe-RoCE`	Specify Linux-NVMe-RoCE as the adapter policy for the vNIC that you want to use for NVMeoF.
Step 5	**Example:** `UCS-A /org/service-profile/vnic* # commit-buffer`	Commit the transaction to the system configuration.

This example shows how to configure the RoCEv2 Linux adapter policy on the eth01 vNIC:

Example

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:
    Name               Fabric ID Dynamic MAC Addr   Virtualization Preference
    ------------------ --------- ------------------ -------------------------
    eth00              A B       00:25:B5:3A:84:00  NONE
    eth01              A         00:25:B5:3A:84:01  NONE
    eth02              B         00:25:B5:3A:84:02  NONE
UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy Linux-NVMe-RoCE
UCS-A /org/service-profile/vnic* # commit-buffer
UCS-A /org/service-profile/vnic #
```

Deleting the Windows RoCEv2 Interface Using the CLI for UCS Manager

Use the following steps to delete the Windows RoCEv2 interface in the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	Purpose
Step 1	**Example:** UCS-A # scope service-profile server *chassis-id /* *blade-id or rack_server-id*	Enter the service profile for the specified chassis, blade or UCS managed rack server ID.
Step 2	**Example:** UCS-A /org/service-profile # show vnic	Display the vNICs available on the server.
Step 3	**Example:** UCS-A /org/service-profile # scope vnic *vnic name*	Enter the vnic mode for the specified vNIC.
Step 4	**Example:** UCS-A /org/service-profile/vnic # set adapter-policy *Windows*	Removes the Windows RoCEv2 adapter policy by setting the default Windows adapter policy.
Step 5	**Example:** UCS-A /org/service-profile/vnic* # commit-buffer	Commit the transaction to the system configuration.

What to do next

This example shows how to remove the RoCEv2 interface on the eth01 vNIC on Windows.

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:

Name     Fabric ID      Dynamic MAC Addr  Virtualization Preference
--------   -------------      ---------------------------
----------------------------------
eth00        A B            00:25:B5:3A:84:00        NONE
eth01        A              00:25:B5:3A:84:01          NONE
eth02        B              00:25:B5:3A:84:02          NONE


UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy Windows
UCS-A /org/service-profile/vnic* # commit-buffer
UCS-A /org/service-profile/vnic #
```

Deleting the Linux RoCEv2 Interface Using the UCS Manager CLI

Use the following steps to delete the Linux RoCEv2 interface in the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	Purpose
Step 1	**Example:** `UCS-A # scope service-profile server chassis-id / blade-id or rack_server-id`	Enter the service profile for the specified chassis, blade or UCS managed rack server ID.
Step 2	**Example:** `UCS-A /org/service-profile # show vnic`	Display the vNICs available on the server.
Step 3	**Example:** `UCS-A /org/service-profile # scope vnic vnic name`	Enter the vnic mode for the specified vNIC.
Step 4	**Example:** `UCS-A /org/service-profile/vnic # set adapter-policy Linux`	Removes Linux-NVMe-RoCE policy by setting the default Linux adapter policy.
Step 5	**Example:** `UCS-A /org/service-profile/vnic* # commit-buffer`	Commit the transaction to the system configuration.

This example shows how to remove the RoCEv2 interface on the eth01 vNIC on Linux.

Example

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:
    Name               Fabric ID Dynamic MAC Addr   Virtualization Preference
    ------------------ --------- ------------------ -------------------------
    eth00              A B       00:25:B5:3A:84:00  NONE
    eth01              A         00:25:B5:3A:84:01  NONE
    eth02              B         00:25:B5:3A:84:02  NONE
UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy Linux
UCS-A /org/service-profile/vnic* # commit-buffer
```

Configuring the RoCEv2 VMware ESXi Interface Using the UCS Manager CLI

Use the following steps to configure the RoCEv2 interface for VMware ESXi in the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	Purpose
Step 1	**Example:** UCS-A # scope service-profile server *chassis-id / blade-id or rack_server-id*	Enter the service profile for the specified chassis, blade or UCS managed rack server ID.
Step 2	**Example:** UCS-A /org/service-profile # show *vnic*	Display the vNICs available on the server.
Step 3	**Example:** UCS-A /org/service-profile # scope vnic *vnic name*	Enter the vnic mode for the specified vNIC.
Step 4	**Example:** UCS-A /org/service-profile/vnic # set adapter-policy *VMWareNVMeRoCEv2*	Specify VMWareNVMeRoCEv2 as the adapter policy for the vNIC that you want to use for NVMeoF.
Step 5	**Example:** UCS-A /org/service-profile/vnic* # commit-buffer	Commit the transaction to the system configuration.

This example shows how to configure the RoCEv2 VMware adapter policy on the eth01 vNIC:

Example

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:
    Name              Fabric ID Dynamic MAC Addr   Virtualization Preference
    ----------------- --------- ----------------- -------------------------
    eth00             A B       00:25:B5:3A:84:00  NONE
    eth01             A         00:25:B5:3A:84:01  NONE
    eth02             B         00:25:B5:3A:84:02  NONE
UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy VMWareNVMeRoCEv2
UCS-A /org/service-profile/vnic* # commit-buffer
UCS-A /org/service-profile/vnic #
```

Deleting the ESXi RoCEv2 Interface Using the UCS Manager CLI

Use the following steps to delete the ESXi RoCEv2 interface using the Cisco UCS Manager CLI.

Before you begin

You must log in with admin privileges.

Procedure

	Command or Action	**Purpose**
Step 1	**Example:** UCS-A # scope service-profile server *chassis-id /* *blade-id or rack_server-id*	Enter the service profile for the specified chassis, blade or UCS managed rack server ID.
Step 2	**Example:** UCS-A /org/service-profile # show vnic	Display the vNICs available on the server.
Step 3	**Example:** UCS-A /org/service-profile # scope vnic *vnic name*	Enter the vnic mode for the specified vNIC.
Step 4	**Example:** UCS-A /org/service-profile/vnic # set adapter-policy *VMWare*	Removes VMWareNVMeRoCEv2 policy by setting the default ESXi adapter policy.
Step 5	**Example:** UCS-A /org/service-profile/vnic* # commit-buffer	Commit the transaction to the system configuration.

This example shows how to remove the RoCEv2 interface on the eth01 vNIC on ESXi.

Example

```
UCS-A# scope service-profile server 1/1
UCS-A /org/service-profile # show vnic

vNIC:
    Name                Fabric ID Dynamic MAC Addr   Virtualization Preference
    ------------------ --------- ----------------- -------------------------
    eth00              A B       00:25:B5:3A:84:00  NONE
    eth01              A         00:25:B5:3A:84:01  NONE
    eth02              B         00:25:B5:3A:84:02  NONE
UCS-A /org/service-profile # scope vnic eth01
UCS-A /org/service-profile/vnic # set adapter-policy ESXi
UCS-A /org/service-profile/vnic* # commit-buffer
```