Using the UCS Manager CLI to Configure the RoCEv2 Interface

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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: **Example:** 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:** 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
```