Managing Remote Presence

This chapter includes the following sections:

Managing the Virtual KVM

KVM Console

The KVM console is an interface accessible from the CIMC that emulates a direct keyboard, video, and mouse connection to the server. The KVM console allows you to connect to the server from a remote location. Instead of using CD/DVD or floppy drives physically connected to the server, the KVM console uses virtual media, which are actual disk drives or disk image files that are mapped to virtual CD/DVD or floppy drives. You can map any of the following to a virtual drive:

- CD/DVD or floppy drive on your computer
- Disk image files (ISO or IMG files) on your computer
- USB flash drive on your computer

You can use the KVM console to install an operating system or hypervisor on the server and to do the following:

- Access the BIOS setup menu by pressing **F2** during bootup.
- Access the CIMC Configuration Utility by pressing **F8** during bootup.

  > **Note**   The CIMC Configuration Utility is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

- Access the WebBIOS to configure RAID, by pressing **Ctrl-H** during bootup.

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Java Requirements to Launch the KVM Console

To launch the KVM console, you must have Java release 1.6 or later installed in your system.

If the KVM console fails to launch because the certificate is revoked by Java, you must change your Java settings. Do the following:

1 Access the Java control panel.

2 Click the **Advanced** tab

3 Under **Perform certificate revocation on**, choose the **Do not check (not recommended)** radio button. For more information, see http://www.java.com/en/download/help/revocation_options.xml.
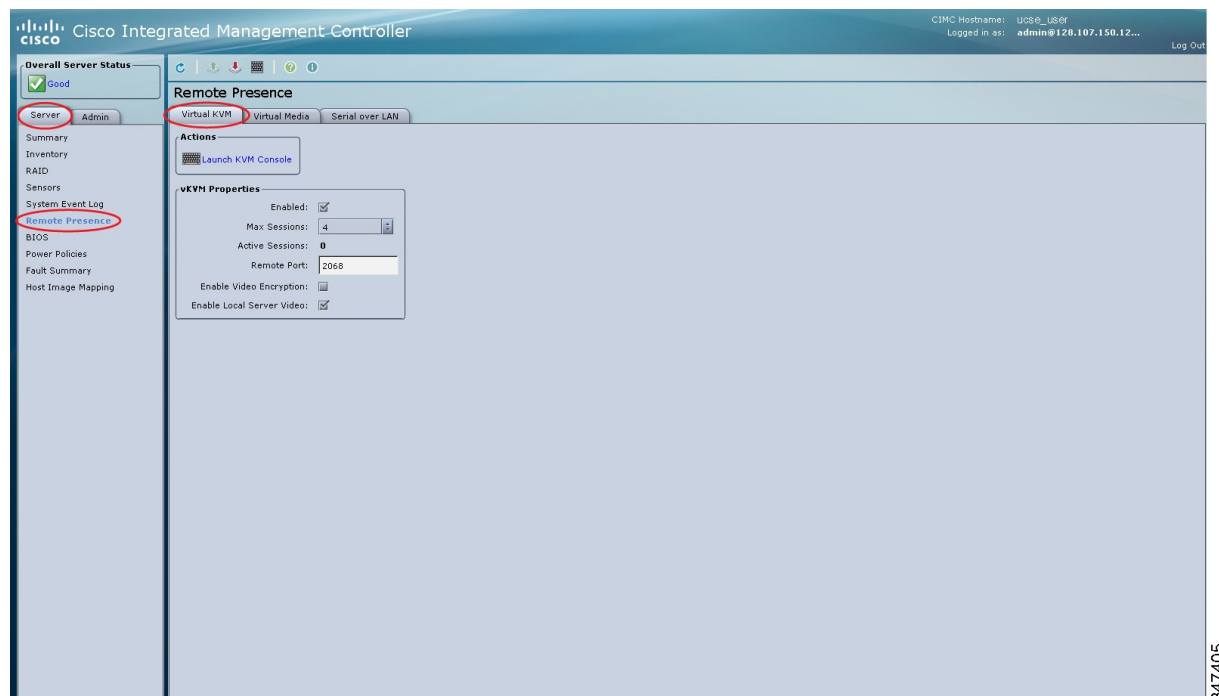
Configuring the Virtual KVM

Before You Begin

You must log in as a user with admin privileges to configure the virtual KVM.

Procedure

Step 1 In the **Navigation** pane, click the **Server** tab.

Step 2 On the **Server** tab, click **Remote Presence**.

Step 3 In the **Remote Presence** pane, click the **Virtual KVM** tab.

Figure 1: Virtual KVM Tab

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Step 4 In the **vKVM Properties** area, complete the following fields:

Name	Description
Enabled check box	If checked, the virtual KVM is enabled.
	Note The virtual media viewer is accessed through the KVM. If you disable the KVM console, CIMC also disables access to all virtual media devices attached to the host.
Max Sessions drop-down list	The maximum number of concurrent KVM sessions allowed. You can select any number between 1 and 4.
Active Sessions field	The number of KVM sessions running on the server.
Remote Port field	The port used for KVM communication.
Enable Video Encryption check box	If checked, the server encrypts all video information sent through the KVM.
Enable Local Server Video check box **Note** Not displayed for the EHWIC E-Series NCE.	If checked, the KVM session is also displayed on any monitor attached to the server.

Step 5 Click **Save Changes**.

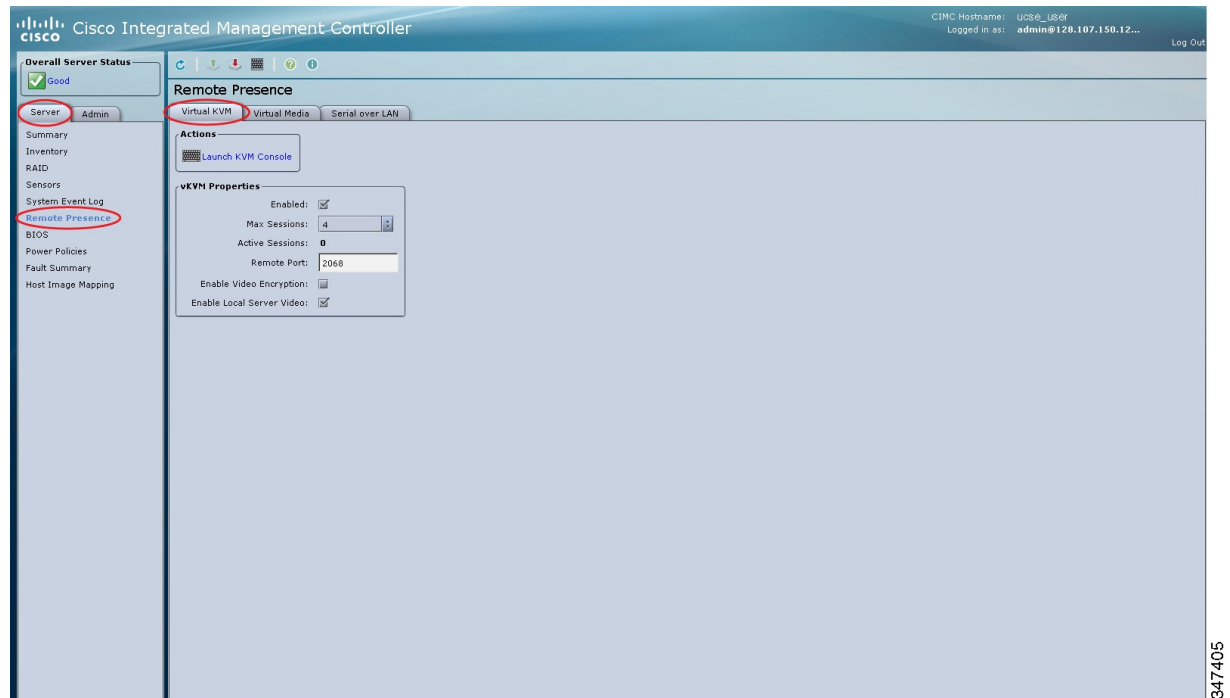# Enabling the Virtual KVM

Before You Begin

You must log in as a user with admin privileges to enable the virtual KVM.

Procedure

Step 1 In the **Navigation** pane, click the **Server** tab.

Step 2 On the **Server** tab, click **Remote Presence**.

Step 3 In the **Remote Presence** pane, click the **Virtual KVM** tab.

Figure 2: Virtual KVM Tab

Step 4 In the **vKVM Properties** area, check the **Enabled** check box.

Step 5 Click **Save Changes**.

Disabling the Virtual KVM

Before You Begin

You must log in as a user with admin privileges to disable the virtual KVM.

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Procedure

Step 1 In the **Navigation** pane, click the **Server** tab.

Step 2 On the **Server** tab, click **Remote Presence**.

Step 3 In the **Remote Presence** pane, click the **Virtual KVM** tab.

Figure 3: Virtual KVM Tab
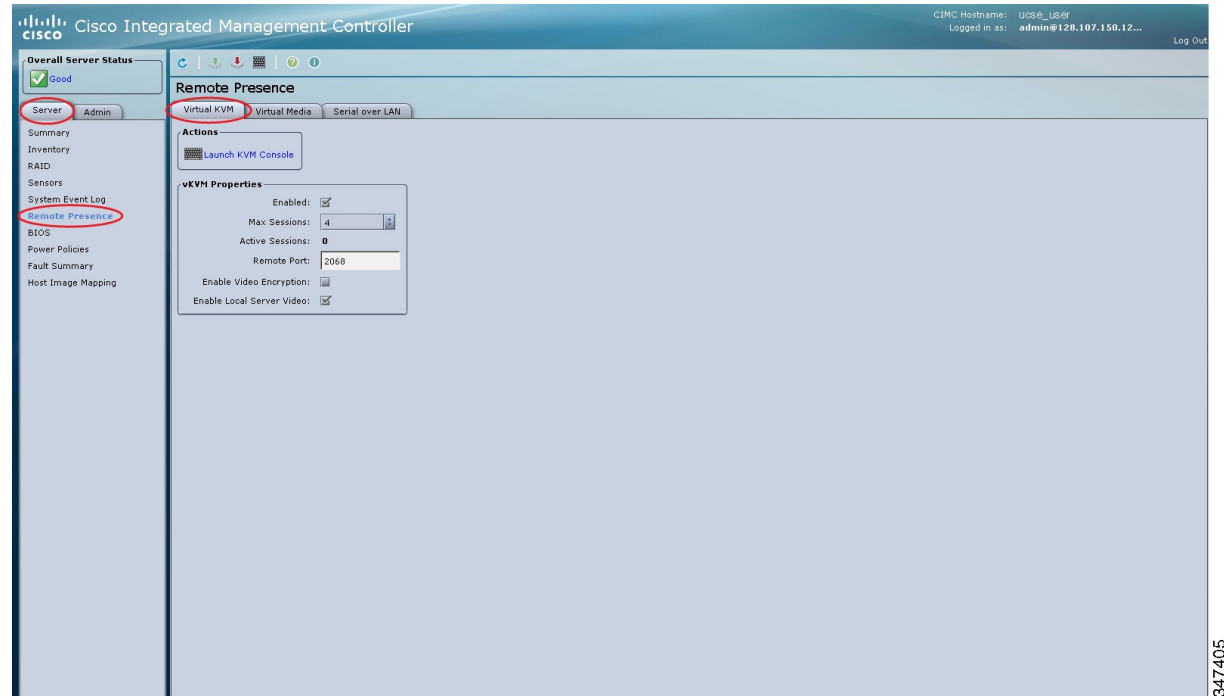
Step 4 In the **vKVM Properties** area, uncheck the **Enabled** check box.

Step 5 Click **Save Changes**.
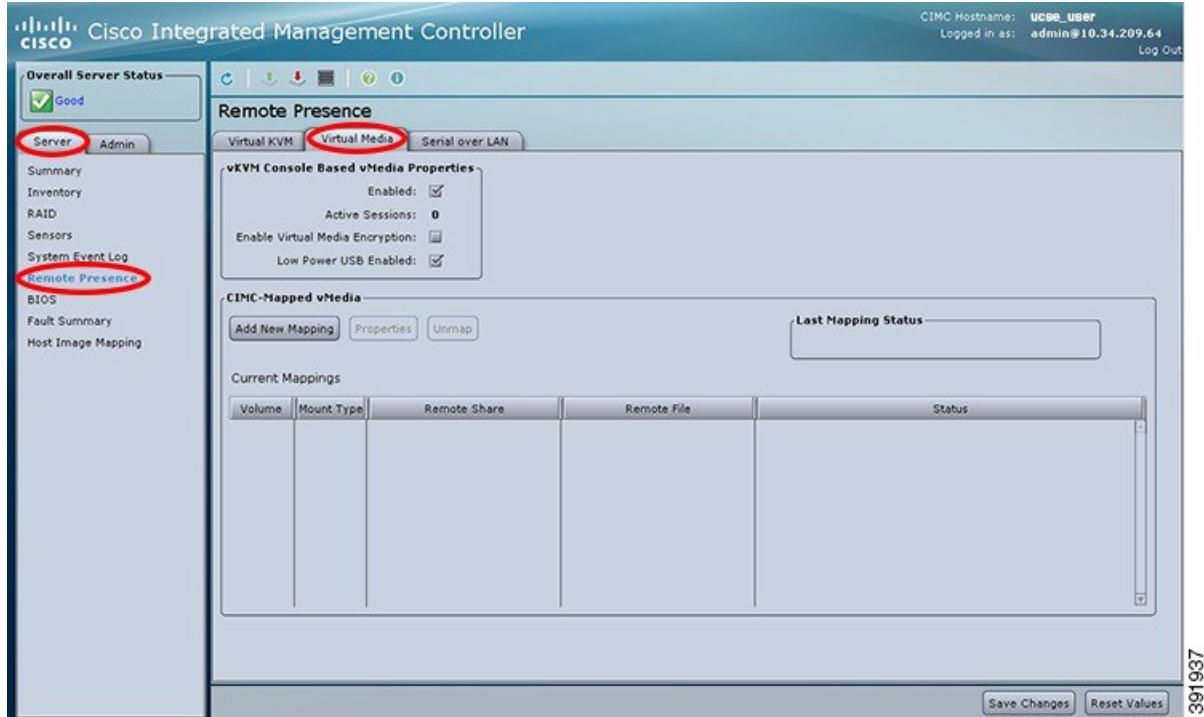
Configuring Virtual Media

Before You Begin

You must log in as a user with admin privileges to perform this task.

Procedure

Step 1   In the **Navigation** pane, click the **Server** tab.

Step 2   On the **Server** tab, click **Remote Presence**.

Step 3   In the **Remote Presence** pane, click the **Virtual Media** tab.

Figure 4: Virtual Media Tab

Step 4   In the **Virtual Media Properties** area, update the following properties:

Name	Description
Enabled check box	If checked, virtual media is enabled. **Note** If you clear this check box, all virtual media devices are automatically detached from the host.
Active Sessions field	The number of virtual media sessions that are currently running.
Enable Virtual Media Encryption check box	If checked, all virtual media communications are encrypted.

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Name	Description
Low Power USB enabled check box	If checked, low power USB is enabled. If the low power USB is enabled, after mapping the ISO and rebooting the host, the virtual drives appear on the boot selection menu. But, while mapping an ISO to a server that has a UCS VIC P81E card and the NIC is in Cisco Card mode, this option must be disabled for the virtual drives to appear on the boot selection menu.

Step 5   Click **Save Changes**.

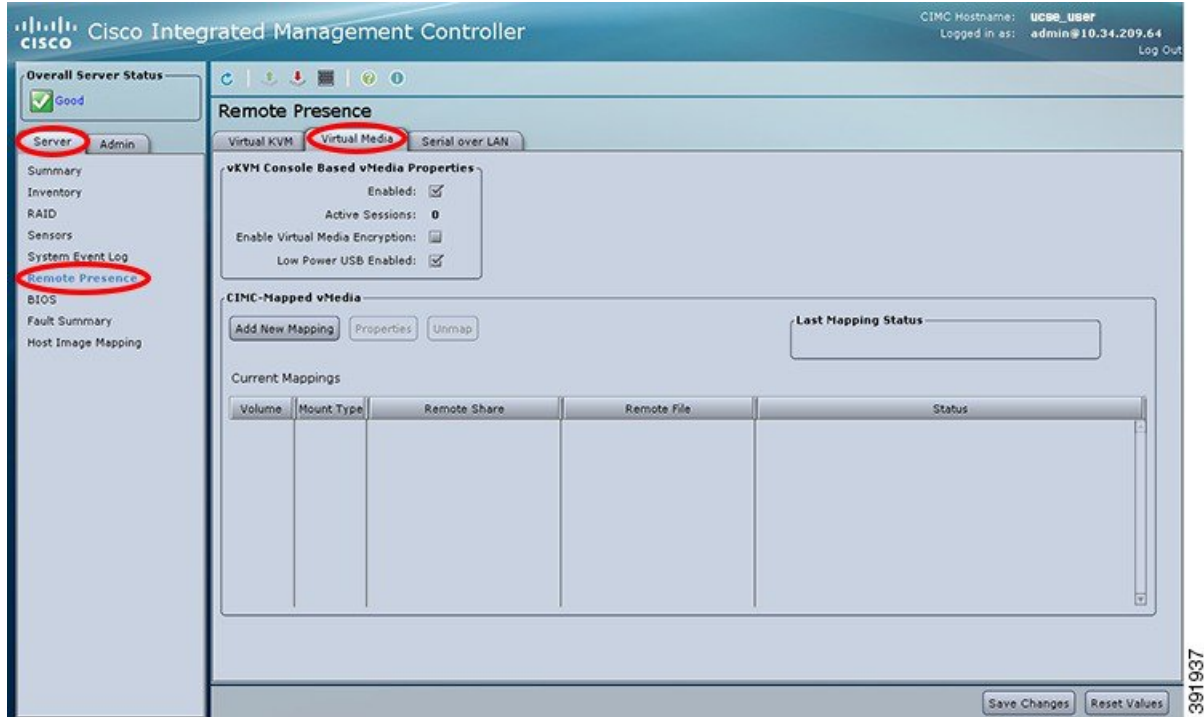# Creating a CIMC-Mapped vMedia Volume

Before You Begin

You must log in as a user with admin privileges to perform this task.

Procedure

Step 1   In the **Navigation** pane, click the **Server** tab.

Step 2   On the **Server** tab, click **Remote Presence**.

Step 3   In the **Remote Presence** pane, click the **Virtual Media** tab.

Figure 5: Virtual Media Tab

Step 4   In the **CIMC-Mapped vMedia** area, click **Add New Mapping**.

Step 5   In the **CIMC-Mapped vMedia** dialog box, update the following fields:

Name	Description
Volume field	The identity of the image mounted for mapping.
Mount Type drop-down list	The type of mapping. This can be one of the following: • **NFS**—Network File System. • **CIFS**—Common Internet File System. • **WWW(HTTP/HTTPS)**—HTTP-based or HTTPS-based system.

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Name	Description
Remote Share field	The URL of the image to be mapped. The format depends on the selected **Mount Type**: • **NFS**—Use serverip:/share. • **CIFS**—Use //serverip/share. • **WWW(HTTP/HTTPS)**—Use http[s]://serverip/share.
Remote File field	The name and location of the .iso or .img file in the remote share.
Mount Options field	Industry-standard mount options entered in a comma separated list. The options vary depending on the selected **Mount Type**. If you are using **NFS**, leave the field blank or enter one or more of the following: • ro • rw • nolock • noexec • soft • port=VALUE • timeo=VALUE • retry=VALUE If you are using **CIFS**, leave the field blank or enter one or more of the following: • soft • nounix • noserverino • guest • username=VALUE—ignored if guest is entered. • password=VALUE—ignored if guest is entered. If you are using **WWW(HTTP/HTTPS)**, leave the field blank or enter the following: • noauto
User Name field	The username for the specified **Mount Type**, if required.
Password field	The password for the selected username, if required.

Step 6   Click **Save**.

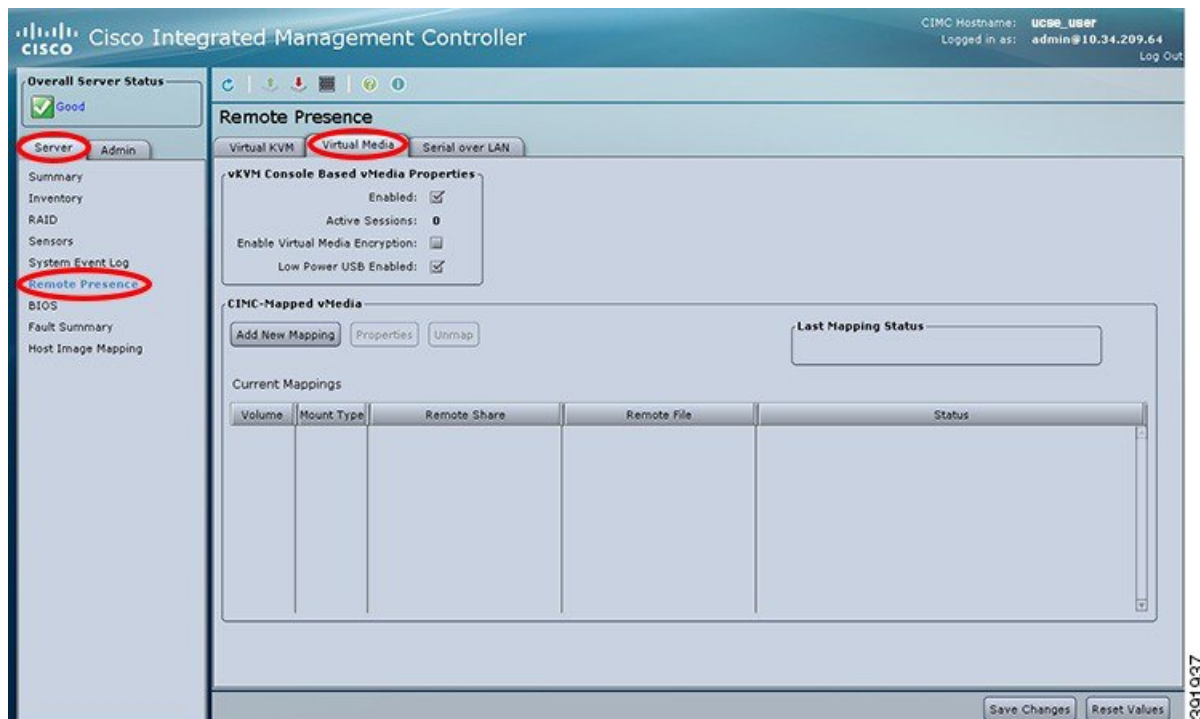# Viewing CIMC-Mapped vMedia Volume Properties

Before You Begin

You must log in as a user with admin privileges to perform this task.

Procedure

Step 1   In the **Navigation** pane, click the **Server** tab.

Step 2   On the **Server** tab, click **Remote Presence**.

Step 3   In the **Remote Presence** pane, click the **Virtual Media** tab.

Figure 6: Virtual Media Tab

Step 4   In the **CIMC-Mapped vMedia** area, select a row from the **Current Mappings** table.

Step 5   Click **Properties** and review the following information:

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Name	Description
Volume field	The identity of the image mounted for mapping.
Mount Type drop-down list	The type of mapping. This can be one of the following: • **NFS**—Network File System. • **CIFS**—Common Internet File System. • **WWW(HTTP/HTTPS)**—HTTP-based or HTTPS- based system.
Remote Share field	The URL of the image to be mapped.
Remote File field	The name and location of the .iso or .img file in the remote share.
Mount Options field	The selected mount options.
User Name field	The username, if any.
Password field	The password for the selected username, if any.

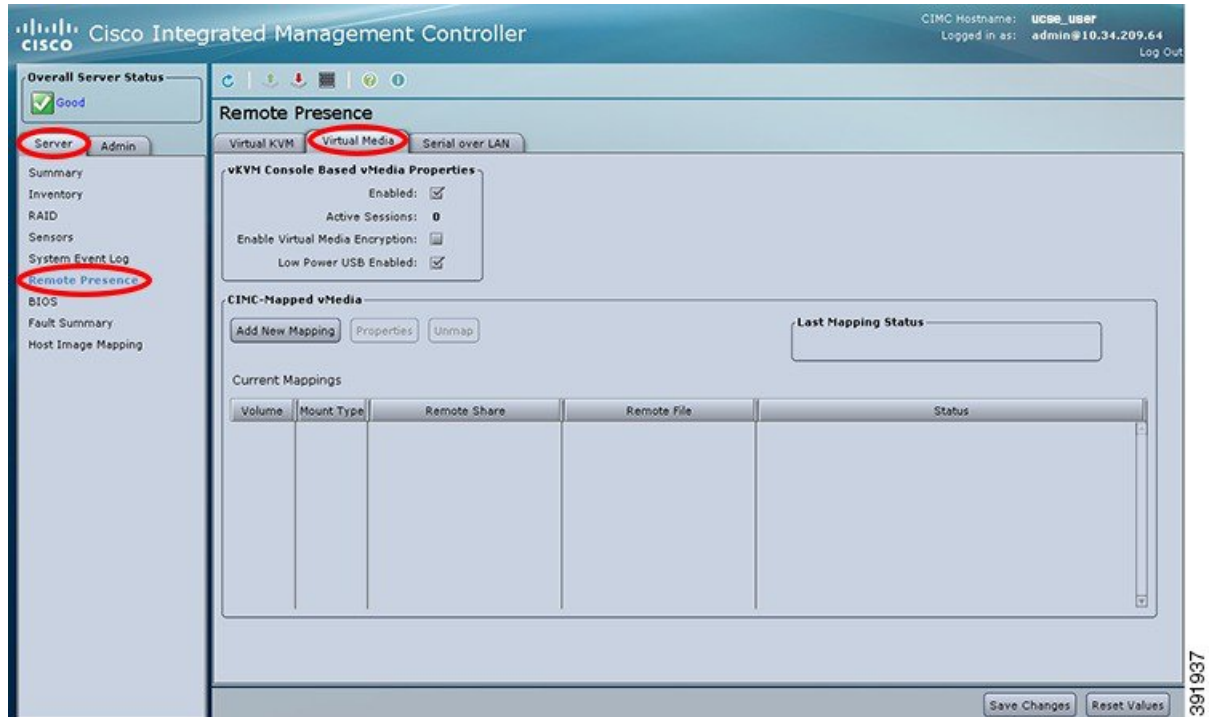# Removing a CIMC-Mapped vMedia Volume

Before You Begin

You must log in as a user with admin privileges to perform this task.

Procedure

Step 1   In the **Navigation** pane, click the **Server** tab.

Step 2   On the **Server** tab, click **Remote Presence**.

Step 3   In the **Remote Presence** pane, click the **Virtual Media** tab.

Figure 7: Virtual Media Tab

Step 4   In the **CIMC-Mapped vMedia** area, click **Unmap**.

Configuring Serial Over LAN

Serial over LAN enables the input and output of the serial port of a managed system to be redirected over IP. Configure and use serial over LAN on your server when you want to reach the host console with CIMC.

> **Note**   Some operating systems, such as Red Hat Enterprise Linux, require extra configuration to redirect the serial console.

Before You Begin

You must log in as a user with admin privileges to configure serial over LAN.

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Procedure

Step 1 In the **Navigation** pane, click the **Server** tab.

Step 2 On the **Server** tab, click **Remote Presence**.

Step 3 In the **Remote Presence** pane, click the **Serial over LAN** tab.

Step 4 In the **Serial over LAN Properties** area, update the following properties:

Name	Description
Enabled check box	If checked, Serial over LAN is enabled on this server.
Baud Rate drop-down list	The baud rate the system uses for Serial over LAN communication. You can select one of the following: • **9600 bps** • **19.2 kbps** • **38.4 kbps** • **57.6 kbps** • **115.2 kbps**

Step 5 Click **Save Changes**.

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