



Managing Remote Presence

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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 Cisco IMC.

Before You Begin

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

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 (SoL) is enabled on this server.

Name	Description
Baud Rate drop-down list	<p>The baud rate the system uses for SoL communication. This can be one of the following:</p> <ul style="list-style-type: none"> • 9600 bps • 19.2 kbps • 38.4 kbps • 57.6 kbps • 115.2 kbps
Com Port drop-down list	<p>The serial port through which the system routes SoL communication.</p> <p>Note This field is only available on some C-Series servers. If it is not available, the server always uses COM port 0 for SoL communication.</p> <p>You can select one of the following:</p> <ul style="list-style-type: none"> • com0—SoL communication is routed through COM port 0, an externally accessible serial port that supports either a physical RJ45 connection to an external device or a virtual SoL connection to a network device. <p>If you select this option, the system enables SoL and disables the RJ45 connection, which means that the server can no longer support an external serial device.</p> <ul style="list-style-type: none"> • com1—SoL communication is routed through COM port 1, an internal port accessible only through SoL. <p>If you select this option, you can use SoL on COM port 1 and the physical RJ45 connection on COM port 0.</p> <p>Note Changing the Com Port setting disconnects any existing SoL sessions.</p>

Step 5 Click **Save Changes**.

Configuring Virtual Media

Before You Begin

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

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.
- 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.
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 Cisco IMC-Mapped vMedia Volume

Before You Begin

You must log in 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.
- Step 4** In the **Cisco IMC-Mapped vMedia** area, click **Add New Mapping**.
- Step 5** In the **Cisco IMC-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: <ul style="list-style-type: none"> • 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. The format depends on the selected Mount Type : <ul style="list-style-type: none"> • 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.

Name	Description
Mount Options field	<p>Industry-standard mount options entered in a comma separated list. The options vary depending on the selected Mount Type.</p> <p>If you are using NFS, leave the field blank or enter one or more of the following:</p> <ul style="list-style-type: none"> • ro • rw • nolock • noexec • soft • port=VALUE • timeo=VALUE • retry=VALUE <p>If you are using CIFS, leave the field blank or enter one or more of the following:</p> <ul style="list-style-type: none"> • soft • nounix • noserverino • guest • username=VALUE—ignored if guest is entered. • password=VALUE—ignored if guest is entered. <p>If you are using WWW(HTTP/HTTPS), leave the field blank or enter the following:</p> <ul style="list-style-type: none"> • 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 Cisco IMC-Mapped vMedia Volume Properties

Before You Begin

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

Procedure

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- 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.
- Step 4** In the **Cisco IMC-Mapped vMedia** area, select a row from the **Current Mappings** table.
- Step 5** Click **Properties** and review the following information:

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: <ul style="list-style-type: none"> • 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 Cisco IMC-Mapped vMedia Volume

Before You Begin

You must log in 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.
 - Step 4** In the **Cisco IMC-Mapped vMedia** area, click **Unmap**.
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KVM Console

The KVM console is an interface accessible from Cisco IMC that emulates a direct keyboard, video, and mouse (KVM) 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
- CD/DVD or floppy drive on the network
- Disk image files (ISO or IMG files) on the network
- USB flash drive on the network

You can use the KVM console to install an OS on the server.

**Note**

When launching the KVM Console from Internet Explorer 6 SP1 on Windows Server 2003, the browser will report that it cannot download a required file. If this occurs, click the browser Tools menu and select Internet Options. Click the Advanced tab and, in the Security section, uncheck the checkbox for "Do not save encrypted pages to disk." Launch the KVM Console again.

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.
- Step 4** On the **Virtual KVM** tab, 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, Cisco IMC 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	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.
- Step 4** On the **Virtual KVM** tab, 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.

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.
 - Step 4** On the **Virtual KVM** tab, uncheck the **Enabled** check box.
 - Step 5** Click **Save Changes**.
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