



Managing Remote Presence

- [Managing the Virtual KVM, on page 1](#)
- [Configuring Virtual Media, on page 7](#)
- [Configuring Serial Over LAN, on page 14](#)

Managing the Virtual KVM

vKVM Console

The vKVM console is an interface accessible from that emulates a direct keyboard, video, and mouse (KVM) connection to the server. The vKVM console allows you to connect to the server from a remote location and to map physical locations to virtual drives that can be accessed by the server during a vKVM session.

Instead of using CDs/DVDs physically connected to the server, the vKVM console uses virtual media, which are actual disk drives or disk image files that are mapped to virtual drives. You can map any of the following to a virtual drive:

- Disk image files (ISO files) on your computer
- USB flash drive on your computer
- Disk image files (ISO files) on the network
- USB flash drive on the network

You can use the KVM console to install an operating system 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.

Launching vKVM

Before you begin

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

Procedure

- Step 1** To launch the console from **CIMC Home** page, click the **Launch vKVM** link in the toolbar.
- Step 2** Alternatively, in the **Navigation** pane, click the **Compute** menu.
- Step 3** In the **Compute** menu work pane, click the **RemoteManagement** tab.
- Step 4** In the **Remote Management** pane, click the **Virtual KVM** tab.
- Step 5** In the **Virtual KVM** tab, click the **Launch v KVM** link.
- Step 6** Click the URL link displayed in the pop-up window (HTML based KVM console only) to load the client application.

Note You must click the link every time you launch the KVM console.

Step 7

vKVM Navigation

Before you begin

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

Procedure

In the vKVM UI, view the available navigation menus. The following menus are available:

Table 1: Toolbar Menu

| Name | Description |
|--------------------|---|
| Session User List | Displays the list of users in the current session. |
| Help | Launches the help pop-up. |
| Language drop-down | Provides a list of available languages for the user to choose from. |

| Name | Description |
|---------------------|---|
| Profile menu | Provides the user’s profile settings, including: <ul style="list-style-type: none"> • Role • Server • Settings <ul style="list-style-type: none"> • Maintain Aspect Ration • Mouse Mode • Video Inactivity Timeout • Number of Terminal Scrollback Lines • Theme • Sign Out |

Table 2: Console Menu

| Name | Description |
|---------------------|---|
| KVM | The SOL (Serial Over Lan) console provides console access to the host. |
| Activate SOL | Use the following configuration to activate the SOL: <pre> device# device # scope sol device /sol # set enabled yes device /sol *# commit show detail device /sol # show detail Serial Over LAN: Enabled: yes Baud Rate(bps): 115200 Com Port: com0 SOL SSH Port: 2400 device /sol # </pre> |

Table 3: File Menu

| Name | Description |
|-----------------------------|---|
| Paste Clipboard Text | Opens the Paste Clipboard text dialog box with the following fields: <ul style="list-style-type: none"> • When an unsupported character is found in pasted text dropdown • Enter Text to Paste field |

| Name | Description |
|-----------------|--|
| Capture to File | Saves the current screen as a JPG image in the local Downloads folder. |

Table 4: View Menu

| Name | Description |
|-------------------|--|
| Refresh | Updatesthe console display with the server's current video output. |
| Video Quality | Provides the dropdown list for video quality options: <ul style="list-style-type: none"> • High • Medium • Low • Ultra Low |
| Clear SOL Console | Clears the SOL console. |
| Full Screen | Expands the KVM console so that it fills the entire screen. |

Table 5: Macros Menu

| Name | Description |
|---------------|--|
| Static Macros | Displays a predefined set of macros. |
| Manage Macros | Opens the Manage Macros dialog box, which allows you to create and manage macros. System-defined macros cannot be deleted. |

Table 6: Tools Menu

| Name | Description |
|-------------------|--|
| Stats | Opens the KVM Stats dialog box. |
| Session User List | Opens the Session User List dialog box that shows all the user IDs that have an active KVM session. |
| Keyboard | Opens the virtual keyboard pop-up. |
| USB Reset | Provides a dropdown list to reset: <ul style="list-style-type: none"> • Keyboard and mouse • Virtual media |

Table 7: Power Menu

| Name | Description |
|---------------------------|---|
| Power On System | Powers on the system. This option is disabled when the system is powered on and it is enabled when the system is not powered. |
| Power Off System | Powers off the system from the virtual console session. This option is enabled when the system is powered on and disabled when the system is not powered on. |
| Reset System | Reboots the system without powering it off. This option is enabled when the system is powered on and disabled when the system is not powered on. |
| Power Cycle System | Turns off system and then back on. This option is enabled when the system is powered on and disabled when the system is not powered on. |

Table 8: Boot Device Menu

| Name | Description |
|--------------------|--|
| Boot Device | Choose a one-time boot device. The boot device selected will be used once, on the next boot. The configured boot device will be used for subsequent boots. |

Table 9: Virtual Media Menu

| Name | Description |
|-------------------------|--|
| Create Image | Create a .iso image, and manage virtual media devices. |
| vKVM-Mapped vDVD | Maps the selected image file as vKVM mapped vDVD |
| vKVM-Mapped vHDD | Maps the selected image file as vKVM mapped vHDD |
| vKVM-Mapped vFDD | Maps the selected image file as vKVM mapped vFDD |
| CIMC-Mapped vDVD | Maps the selected image file as CIMC mapped vDVD |
| CIMC-Mapped vHDD | Maps the selected image file as CIMC mapped vHDD |
| Host-Mapped vDVD | Maps the selected image file as Host-Image mapped vDVD |
| Host-Mapped vHDD | Maps the selected image file as Host-Image mapped vHDD |

Table 10: Chat Menu

| Name | Description |
|------|--|
| Chat | Opens the Chat box to communicate with other users. |

Configuring the Virtual KVM

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 **Compute** menu.
- Step 2** In the **Compute** menu work pane, click the **RemoteManagement** tab.
- Step 3** In the **RemoteManagement** 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, CIMC also disables access to all virtual media devices attached to the host. |
| Max Sessions drop-down | The maximum number of concurrent KVM sessions allowed. You can choose 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 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** to save your changes, or **Reset Values** to reset the parameters to previous values.

Enabling or Disabling the Virtual KVM

Before you begin

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

Procedure

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- Step 1** In the **Remote Management** pane, click the **Virtual KVM** tab.
 - Step 2** In the **Virtual KVM** tab, check or uncheck the **Enabled** check box.
 - Step 3** Click **Save Changes** to save your changes, or **Reset Values** to reset the parameters to previous values.
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Configuring Virtual Media

Before you begin

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

Procedure

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- Step 1** In the **Navigation** pane, click the **Compute** menu.
 - Step 2** In the **Compute** menu work pane, click the **RemoteManagement** tab.
 - Step 3** In the **Remote Management** pane, click the **Virtual Media** tab.
 - Step 4** In the **vKM Console Based vMedia 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. |

- Step 5** Click **Save Changes** to save your changes, or **Reset Values** to reset the parameters to previous values.
-

Viewing CIMC-Mapped vMedia Properties

Procedure

- Step 1** In the **Navigation** pane, click the **Compute** menu.
- Step 2** In the **Compute** menu work pane, click the **Remote Management** tab.
- Step 3** In the **Remote Management** pane, click the **Virtual Media** tab.
- Step 4** In the **Cisco IMC-Mapped vMedia** area, review the **Last Mapping Status**.
- Step 5** Choose a row from the **Current Mappings** table.
- Step 6** Click **Properties** and review the following information:

| Name | Description |
|---------------------------|---|
| Add New Mapping button | Opens a dialog box that allows you to add a new image. |
| Properties button | Opens a dialog box that allows you to view or change the properties for the chosen image. |
| Unmap button | Unmaps the mounted vMedia. |
| Last Mapping Status field | The status of the last mapping attempted. |
| Volume column | The identity of the image. |
| Mount Type drop down | The type of mapping. |
| Remote Share field | The URL of the image. |
| Remote File field | The exact file location of the image. |
| Status field | The current status of the map. This can be one of the following: <ul style="list-style-type: none"> • OK—The mapping is successful. • InProgress—The mapping is in progress. • Stale—displays a text string with the reason why the mapping is stale. • Error—displays a text string with the reason for the error. |

Creating a CIMC-Mapped vMedia

Before you begin

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

Procedure

- Step 1** In the **Navigation** pane, click the **Compute** menu.
- Step 2** In the **Compute** menu work pane, click the **Remote Management** tab.
- Step 3** In the **Remote Management** pane, click the **Virtual Media** tab.
- Step 4** In the **Current Mappings** area, click **Add New Mapping**.
- Step 5** In the **Add New Mapping** dialog box, update the following fields:

| Name | Description |
|-----------------------------|---|
| Volume field | The identity of the image mounted for mapping. |
| Mount Type drop-down | <p>The type of mapping. This can be one of the following:</p> <p>Note Ensure that the communication port of the mount type that you choose is enabled on the switch. For example, when you are using CIFS as your mount type, ensure port 445 (which is its communication port) is enabled on the switch. Similarly, enable ports 80 for HTTP, 443 for HTTPS and 2049 for NFS when you use them.</p> <ul style="list-style-type: none"> • NFS—Network File System. • CIFS—Common Internet File System. • WWW(HTTP/HTTPS)—HTTP-based or HTTPS-based system. <p>Note Before mounting the virtual media, tries to verify reachability to the end server by pinging the server.</p> |
| Remote Share field | <p>The URL of the image to be mapped. The format depends on the chosen Mount Type:</p> <ul style="list-style-type: none"> • NFS—Use <code>serverip:/share</code> • CIFS—Use <code>//serverip/share</code> • WWW(HTTP/HTTPS)—Use <code>http[s]://serverip/share</code> |

| Name | Description |
|-------------------|---|
| Remote File field | The name and location of the .iso or .img file in the remote share. |

| Name | Description |
|---------------------|-------------|
| Mount Options field | |

| Name | Description |
|------|---|
| | <p>Industry-standard mount options entered in a comma separated list. The options vary depending on the chosen Mounty 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 <code>guest</code> is entered. • password=VALUE—ignored if <code>guest</code> is entered. • sec=VALUE <p>The protocol to use for authentication when communicating with the remote server. Based on the configuration of CIFS share, the VALUES can be one of the following:</p> <ul style="list-style-type: none"> • None—No authentication is used • Ntlm—NT LAN Manager (NTLM) security protocol. • Ntlmi—NTLMI security protocol. • Ntlmssp—NT LAN Manager Security Support Provider (NTLMSSP) protocol. • Ntlmsspi—NTLMSSPi protocol. • Ntlmv2—NTLMv2 security protocol. Use this |

| Name | Description |
|----------------|--|
| | <p>option only with Samba Linux.</p> <p>If you are using WWW(HTTP/HTTPS), leave the field blank or enter the following:</p> <ul style="list-style-type: none"> • noauto <p>Note Before mounting the virtual media,tries to verify reachability to the end server by pinging the server.</p> <ul style="list-style-type: none"> • username=VALUE • password=VALUE |
| Username field | The username for the specified Mount Type , if required. |
| Password field | The password for the chosen username, if required. |

Step 6 Click **Save**.

Unmapping a CIMC-Mapped vMedia

Before you begin

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

Procedure

- Step 1** In the **Navigation** pane, click the **Compute** menu.
- Step 2** In the **Compute** menu work pane, choose a server.
- Step 3** In the **Compute** menu work pane, click the **Remote Management** tab.
- Step 4** In the **Remote Management** pane, click the **Virtual Media** tab.
- Step 5** Choose a row from the **Current Mappings** table, and click **Unmap**. The selected media is unmapped.

Remapping a CIMC-Mapped vMedia

Before you begin

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

Procedure

- Step 1** In the **Navigation** pane, click the **Compute** menu.
 - Step 2** In the **Compute** menu work pane, choose a server.
 - Step 3** In the **Compute** menu work pane, click the **Remote Management** tab.
 - Step 4** In the **Remote Management** pane, click the **Virtual Media** tab.
 - Step 5** Choose a row from the **Current Mappings** table, and click **Remap**.
The selected media is remapped.
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Deleting a CIMC-Mapped vMedia

Before you begin

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

Procedure

- Step 1** In the **Navigation** pane, click the **Compute** menu.
 - Step 2** In the **Compute** menu work pane, choose a server.
 - Step 3** In the **Compute** menu work pane, click the **Remote Management** tab.
 - Step 4** In the **Remote Management** pane, click the **Virtual Media** tab.
 - Step 5** Choose a row from the **Current Mappings** table, and click **Delete**.
The selected media is deleted.
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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 CIMC.

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 **Compute** menu.
- Step 2** In the work pane, click the **Remote Management** tab.
- Step 3** In the **Remote Management** pane, click the **Serial over LAN** tab.
- Step 4** In the **Serial over LAN Properties** area, update the following properties:

| Name | Description |
|-----------------------------------|---|
| <p>Enabled check box</p> | <p>If checked, Serial over LAN (SoL) is enabled on the server.</p> |
| <p>Baud Rate drop down</p> | <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 • 115.2kbps |
| <p>Com Port drop down</p> | <p>The serial port through which the system routes SoL communication.</p> <p>You can choose 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 choose 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 choose 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> |
| <p>SSH Port field</p> | <p>The port through which you can access Serial over LAN directly. The port enables you to by-pass the Cisco IMC shell to provide direct access to SoL.</p> <p>The valid range is 1024 to 65535. The default value is 2400.</p> <p>Note Changing the SSH Port setting disconnects any existing SSH sessions.</p> |

Step 5 Click **Save Changes** to save your changes, or **Reset Values** to reset the parameters to previous values.
