



# Managing User Accounts

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## Configuring Local Users

The Cisco IMC now implements a strong password policy wherein you are required to follow guidelines and set a strong password when you first log on to the server for the first time. The **Local User** tab displays a **Disable Strong Password** button which allows you to disable the strong password policy and set a password of your choice by ignoring the guidelines. Once you disable the strong password, an **Enable Strong Password** button is displayed. By default, the strong password policy is enabled.

### Before you begin

You must log in as a user with admin privileges to configure or modify local user accounts.

### Procedure

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- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **Local User Management** tab.
- Step 4** To configure or modify a local user account, click a row in the **Local User Management** pane and click **Modify User**.
- Step 5** In the **Modify User Details** dialog box, update the following properties:

Name	Description
ID field	The unique identifier for the user.
Username field	The username for the user. Enter between 1 and 16 characters.
Role Played field	<p>The role assigned to the user. This can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>read-only</b>—A user with this role can view information but cannot make any changes.</li> <li>• <b>user</b>—A user with this role can perform the following tasks: <ul style="list-style-type: none"> <li>• View all information</li> <li>• Manage the power control options such as power on, power cycle, and power off</li> <li>• Launch the vKVM console and virtual media</li> <li>• Clear all logs</li> <li>• Ping</li> </ul> </li> <li>• <b>admin</b>—A user with this role can perform all actions available through the GUI, CLI, and IPMI.</li> </ul> <p><b>Note</b> Any user with admin role will not have the option of <b>Change Password</b> from the right top corner in <b>Settings</b> drop-down menu.</p> <p>To change password as a non-admin user, select <b>read-only</b> or <b>user</b> role and not the <b>admin</b> role.</p>
Enabled check box	If checked, the user is enabled on Cisco IMC.
Change Password check box	Enable this check box if you want to change the password.

Name	Description
New Password field	<p>The password for this user name.</p> <p>Click the <b>Suggest</b> button to get a system generated password that you may want to use.</p> <p>When you move the mouse over the help icon beside the field, the following guidelines to set the password are displayed:</p> <ul style="list-style-type: none"> <li>• The password must have a minimum of 8 and a maximum of 20 characters.</li> <li>• The password must not contain the user's name.</li> <li>• The password must contain characters from three of the following four categories: <ul style="list-style-type: none"> <li>• English uppercase characters (A through Z).</li> <li>• English lowercase characters (a through z).</li> <li>• Base 10 digits (0 through 9).</li> <li>• Non-alphabetic characters (!, @, #, \$, %, ^, &amp;, *, -, _, +, =).</li> </ul> </li> </ul> <p>These guidelines are meant to define a strong password for the user, for security reasons. However, if you want to set a password of your choice ignoring these guidelines, click the <b>Disable Strong Password</b> button on the <b>Local User Management</b> tab. While setting a password when the strong password option is disabled, you can use between 1- 20 characters.</p>
Confirm Password field	The password repeated for confirmation.

**Step 6** Enter password information.

**Step 7** Click **Save Changes**.

## Changing Password as a Non-Admin User



**Note** To perform this task, you must first login as admin and add a user with read-only or user privileges. Only then, you will be able to login as a non-admin user to change the password.

### Procedure

**Step 1** Login as an admin user.

**Step 2** In the **Navigation** pane, click the **Admin** menu.

- Step 3** In the **Admin** menu, click **User Management**.
- Step 4** In the **User Management** pane, click the **Local User Management** tab.
- Step 5** To configure or add a local user account, click a row in the **Local User Management** pane and click **Add User**.
- Step 6** In the **Add User** dialog box, update the following properties by adding a user with read-only or user privileges:

Name	Description
ID field	The unique identifier for the user.
Username field	The username for the user. Enter between 1 and 16 characters.
Role Played field	<p>The role assigned to the user. This can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>read-only</b>—A user with this role can view information but cannot make any changes.</li> <li>• <b>user</b>—A user with this role can perform the following tasks: <ul style="list-style-type: none"> <li>• View all information</li> <li>• Manage the power control options such as power on, power cycle, and power off</li> <li>• Launch the KVM console and virtual media</li> <li>• Clear all logs</li> <li>• Toggle the locator LED</li> <li>• Set time zone</li> <li>• Ping</li> </ul> </li> <li>• <b>admin</b>—A user with this role can perform all actions available through the GUI, CLI, and IPMI.</li> </ul> <p><b>Note</b> To change password select <b>read-only</b> or <b>user</b> role and not the <b>admin</b> role.</p>
Enabled check box	If checked, the user is enabled on the Cisco IMC.
Change Password check box	If checked, the user is enabled to change the password.

Name	Description
<b>New Password</b>	<p>Enter the new password for this username.</p> <p>Click the <b>Suggest</b> button to get a system generated password that you may want to use.</p> <p>When you move the mouse over the help icon beside the field, the following guidelines to set the password are displayed:</p> <ul style="list-style-type: none"> <li>• The password must have a minimum of 8 and a maximum of 14 characters.</li> <li>• The password must not contain the User's Name.</li> <li>• The password must contain characters from three of the following four categories: <ul style="list-style-type: none"> <li>• English uppercase characters (A through Z).</li> <li>• English lowercase characters (a through z).</li> <li>• Base 10 digits (0 through 9).</li> <li>• Non-alphabetic characters (!, @, #, \$, %, ^, &amp;, *, -, _ , =, ").</li> </ul> </li> </ul> <p>These guidelines are meant to define a strong password for the user, for security reasons. However, if you want to set a password of your choice ignoring these guidelines, click the <b>Disable Strong Password</b> button on the <b>Local User Management</b> tab. While setting a password when the strong password option is disabled, you can use between 1- 20 characters.</p>
<b>Confirm Password</b> field	The password repeated for confirmation.

**Step 7** Click **Save Changes**.

**Note** On changing the password, you will be logged out of Cisco IMC.

**Step 8** After creating a new user with read-only or user privileges, logout as admin.

**Step 9** Now, login with the newly created read-only or user role. **Change Password** option is available in the right top corner in **Settings** drop-down menu.

When you click on the **Settings** icon, the drop-down lists the **Change Password** option. This option is visible only if you are logged in as a non-admin user.

If you do not see the **Change Password** option in the drop-down list, login as a non-admin user with read-only or user privileges.

You can now use the **Change Password** option to change your password. As soon as the password is changed, you will be logged out automatically and will be prompted to login with the new password.

## Password Expiry

You can set a shelf life for a password, after which it expires. As an administrator, you can set this time in days. This configuration would be common to all users. Upon password expiry, the user is notified on login and would not be allowed to login unless the password is reset.



**Note** When you downgrade to an older database, existing users are deleted. The database returns to default settings. Previously configured users are cleared and the database is empty, that is, the database has the default username - 'admin' and password - 'password'. Since the server is left with the default user database, the change default credential feature is enabled. This means that when the 'admin' user logs on to the database for the first time after a downgrade, the user must mandatorily change the default credential.

### Password Set Time

A 'Password set time' is configured for every existing user, to the time when the migration or upgrade occurred. For new users (users created after an upgrade), the Password Set time is configured to the time when the user was created, and the password is set. For users in general (new and existing), the Password Set Time is updated whenever the password is changed.

## Configuring Password Expiry Duration

### Before you begin

- You must enable password expiry.

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **Local User Management** pane (opens by default), click **Password Expiration Details**.
- Step 4** In the **Password Expiration Details** dialog box, update the following fields:

Name	Description
<b>Enable Password Expiry</b> check box	Checking this box allows you to configure the <b>Password Expiry Duration</b> . Uncheck the check box to disable it.

Name	Description
<b>Password Expiry Duration</b> field	The time period that you can set for the existing password to expire (from the time you set a new password or modify an existing one). The range is between 1 to 3650 days.  <b>Note</b> Password expiry once set by the admin is applicable for all users that are subsequently created.
<b>Password History</b> field	The number of occurrences when a password was entered. When this is enabled, you cannot repeat a password. Enter a value between 0 to 5. Entering 0 disables this field.
<b>Notification Period</b> field	Notifies the time by when the password expires. Enter a value between 0 to 15 days. Entering 0 disables this field.  <b>Note</b> The notification period time must be lesser than the password expiry duration.
<b>Grace Period</b> field	Time period till when the existing password can still be used, after it expires. Enter a value between 0 to 5 days. Entering 0 disables this field.  <b>Note</b> The grace period time must be lesser than the password expiry duration.

**Note** The valid **Password Expiry Duration** must be greater than the **Notification Period** and the **Grace Period**. If otherwise, you will see an **User Password Expiry Policy configuration error**.

**Step 5** Click **Save Changes**.

**Step 6** Optionally, click **Reset Values** to clear the text fields and reset the values you entered. Click **Restore Defaults** to revert to the default settings.

## Enabling Password Expiry

### Before you begin

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **Local User Management** pane (opens by default), click **Password Expiration Details**.
- Step 4** In the **Password Expiration Details** dialog box, check the **Enable Password Expiry** check box.

The **Password Expiry Duration** text field becomes editable and you can configure the duration by entering a number in days.

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#### What to do next

Configure password expiry duration.

## Resetting User Credentials to Factory Default Values



#### Caution

You may lose current IP address settings, NIC port settings, NIC redundancy after performing this procedure. Cisco recommends that you make a note of your current server settings before performing this procedure.

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#### Before you begin

Ensure that your management Ethernet cable is plugged into the dedicated management port.

#### Procedure

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- Step 1** Login as an admin user.
- Step 2** In the **Navigation** pane, click the **Chassis** menu.
- Step 3** In the **Chassis** menu, click **Summary**.
- Step 4** From the tool bar, click **Launch KVM**.
- Step 5** Alternatively, in the **Navigation** pane, click the **Compute** menu.
- In the **Compute** menu, select a server.
  - In the work pane, click the **Remote Management** tab.
  - In the **Remote Management** pane, click the **Virtual KVM** tab.
  - In the **Virtual KVM** tab, click **Launch HTML based KVM console**.
- Step 6** From the **Power** menu, select **Reset System**.
- Step 7** When prompted, press **F8** to enter the Cisco IMC Configuration Utility. This utility opens in the KVM console window.
- Step 8** Check the **Factory Default** check box, the server reverts to the factory defaults.
- Step 9** Press **F5** to refresh the settings that you made. You might have to wait about 45 seconds until the new settings appear and the message **Network settings configured** is displayed before you reboot the server in the next step.
- Step 10** Press **F10** to save your settings and reboot the server.
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# LDAP Servers

Cisco IMC supports directory services that organize information in a directory, and manage access to this information. Cisco IMC supports Lightweight Directory Access Protocol (LDAP), which stores and maintains directory information in a network. In addition, Cisco IMC supports Microsoft Active Directory (AD). Active Directory is a technology that provides a variety of network services including LDAP-like directory services, Kerberos-based authentication, and DNS-based naming. The Cisco IMC utilizes the Kerberos-based authentication service of LDAP.

When LDAP is enabled in the Cisco IMC, user authentication and role authorization is performed by the LDAP server for user accounts not found in the local user database. The LDAP user authentication format is `username@domain.com`.

By checking the Enable Encryption check box in the **LDAP Settings** area, you can require the server to encrypt data sent to the LDAP server.

## Configuring the LDAP Server

The Cisco IMC can be configured to use LDAP for user authentication and authorization. To use LDAP, configure users with an attribute that holds the user role and locale information for the Cisco IMC. You can use an existing LDAP attribute that is mapped to the Cisco IMC user roles and locales or you can modify the LDAP schema to add a new custom attribute, such as the CiscoAVPair attribute, which has an attribute ID of 1.3.6.1.4.1.9.287247.1.



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**Important**

For more information about altering the schema, see the article at <http://technet.microsoft.com/en-us/library/bb727064.aspx>.

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**Note**

This example creates a custom attribute named CiscoAVPair, but you can also use an existing LDAP attribute that is mapped to the Cisco IMC user roles and locales.

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If you are using Group Authorization on the Cisco IMC LDAP configuration, then you can skip Steps 1-4 and perform the steps listed in the *Configuring LDAP Settings and Group Authorization in Cisco IMC* section.

The following steps must be performed on the LDAP server.

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**Procedure**

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- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click **LDAP**.
- Step 4** Ensure that the LDAP schema snap-in is installed.
- Step 5** Using the schema snap-in, add a new attribute with the following properties:

Properties	Value
Common Name	CiscoAVPair
LDAP Display Name	CiscoAVPair
Unique X500 Object ID	1.3.6.1.4.1.9.287247.1
Description	CiscoAVPair
Syntax	Case Sensitive String

**Step 6** Add the CiscoAVPair attribute to the user class using the snap-in:

- a) Expand the **Classes** node in the left pane and type **U** to select the user class.
- b) Click the **Attributes** tab and click **Add**.
- c) Type **C** to select the CiscoAVPair attribute.
- d) Click **OK**.

**Step 7** Add the following user role values to the CiscoAVPair attribute, for the users that you want to have access to Cisco IMC:

Role	CiscoAVPair Attribute Value
admin	shell:roles="admin"
user	shell:roles="user"
read-only	shell:roles="read-only"

**Note** For more information about adding values to attributes, see the article at <http://technet.microsoft.com/en-us/library/bb727064.aspx>.

### What to do next

Use the Cisco IMC to configure the LDAP server.

## Configuring LDAP Settings and Group Authorization in Cisco IMC

### 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 **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click **LDAP**.

**Step 4** In the **LDAP Settings** area, update the following properties:

Name	Description
<b>Enable LDAP</b> check box	If checked, user authentication and role authorization is performed first by the LDAP server, followed by user accounts that are not found in the local user database.
<b>Base DN</b> field	Base Distinguished Name. This field describes where to load users and groups from.  It must be in the <b>dc=domain,dc=com</b> format for Active Directory servers.
<b>Domain</b> field	The IPv4 domain that all users must be in.  This field is required unless you specify at least one Global Catalog server address.
<b>Enable Encryption</b> check box	If checked, the server encrypts all information it sends to the LDAP server.
<b>Enable Binding CA Certificate</b> check box	If checked, allows you to bind the LDAP CA certificate.
<b>Timeout (0 - 180) seconds</b>	The number of seconds the Cisco IMC waits until the LDAP search operation times out.  If the search operation times out, Cisco IMC tries to connect to the next server listed on this tab, if one is available.  <b>Note</b> The value you specify for this field could impact the overall time.
<b>User Search Precedence</b> drop-down list	Allows you to specify the order of search between the local user database and LDAP user database. This can be one of the following: <ul style="list-style-type: none"> <li>• <b>Local User Database</b> (Default setting)</li> <li>• <b>LDAP User Database</b></li> </ul>

**Note** If you check the **Enable Encryption** and the **Enable Binding CA Certificate** check boxes, enter the fully qualified domain name (FQDN) of the LDAP server in the **LDAP Server** field. To resolve the FQDN of the LDAP server, configure the preferred DNS of Cisco IMC network with the appropriate DNS IP address.

**Step 5** In the **Configure LDAP Servers** area, update the following properties:

Name	Description
<b>Pre-Configure LDAP Servers</b> radio button	If checked, the Active Directory uses the pre-configured LDAP servers.

Name	Description
<b>LDAP Servers</b> fields	
<b>Server</b>	<p>The IP address of the 6 LDAP servers.</p> <p>If you are using Active Directory for LDAP, then servers 1, 2 and 3 are domain controllers, while servers 4, 5 and 6 are Global Catalogs. If you are not Active Directory for LDAP, then you can configure a maximum of 6 LDAP servers.</p> <p><b>Note</b> You can provide the IP address of the host name as well.</p>
<b>Port</b>	<p>The port numbers for the servers.</p> <p>If you are using Active Directory for LDAP, then for servers 1, 2 and 3, which are domain controllers, the default port number is 389. For servers 4, 5 and 6, which are Global Catalogs, the default port number is 3268.</p> <p>LDAPS communication occurs over the TCP 636 port. LDAPS communication to a global catalog server occurs over TCP 3269 port.</p>
<b>Use DNS to Configure LDAP Servers</b> radio button	If checked, you can use DNS to configure access to the LDAP servers.
<b>DNS Parameters</b> fields	
<b>Source</b> drop-down list	<p>Specifies how to obtain the domain name used for the DNS SRV request. It can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Extracted</b>—specifies using domain name extracted-domain from the login ID</li> <li>• <b>Configured</b>—specifies using the configured-search domain.</li> <li>• <b>Configured-Extracted</b>—specifies using the domain name extracted from the login ID than the configured-search domain.</li> </ul>
<b>Domain to Search</b>	<p>A configured domain name that acts as a source for a DNS query.</p> <p>This field is disabled if the source is specified as <b>Extracted</b>.</p>
<b>Forest to Search</b>	<p>A configured forest name that acts as a source for a DNS query.</p> <p>This field is disabled if the source is specified as <b>Extracted</b>.</p>

**Step 6** In the **Binding Parameters** area, update the following properties:

Name	Description
<b>Method</b> drop-down list	<p>It can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Anonymous</b>—requires NULL username and password. If this option is selected and the LDAP server is configured for Anonymous logins, then the user can gain access.</li> <li>• <b>Configured Credentials</b>—requires a known set of credentials to be specified for the initial bind process. If the initial bind process succeeds, then the distinguished name (DN) of the user name is queried and re-used for the re-binding process. If the re-binding process fails, then the user is denied access.</li> <li>• <b>Login Credentials</b>—requires the user credentials. If the bind process fails, the user is denied access.</li> </ul> <p>By default, the <b>Login Credentials</b> option is selected.</p>
<b>Binding DN</b>	The distinguished name (DN) of the user. This field is editable only if you have selected <b>Configured Credentials</b> option as the binding method.
<b>Password</b>	The password of the user. This field is editable only if you have selected <b>Configured Credentials</b> option as the binding method.

**Step 7** In the **Search Parameters** area, update the following fields:

Name	Description
<b>Filter Attribute</b>	<p>This field must match the configured attribute in the schema on the LDAP server.</p> <p>By default, this field displays <b>sAMAccountName</b>.</p>
<b>Group Attribute</b>	<p>This field must match the configured attribute in the schema on the LDAP server.</p> <p>By default, this field displays <b>memberOf</b>.</p>

Name	Description
<b>Attribute</b>	<p>An LDAP attribute that contains the role and locale information for the user. This property is always a name-value pair. The system queries the user record for the value that matches this attribute name.</p> <p>The LDAP attribute can use an existing LDAP attribute that is mapped to the Cisco IMC user roles and locales, or can modify the schema such that a new LDAP attribute can be created. For example, <b>CiscoAvPair</b>.</p>
<b>Nested Group Search Depth (1-128)</b>	Parameter to search for an LDAP group nested within another defined group in an LDAP group map. The parameter defines the depth of a nested group search.

**Step 8** (Optional) In the **Group Authorization** area, update the following properties:

Name	Description
<b>LDAP Group Authorization</b> check box	<p>If checked, user authentication is also done on the group level for LDAP users that are not found in the local user database.</p> <p>If you check this box, Cisco IMC enables the <b>Configure Group</b> button.</p>
<b>Group Name</b> column	The name of the group in the LDAP server database that is authorized to access the server.
<b>Group Domain</b> column	The LDAP server domain the group must reside in.
<b>Role</b> column	<p>The role assigned to all users in this LDAP server group. This can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>read-only</b>—A user with this role can view information but cannot make any changes.</li> <li>• <b>user</b>—A user with this role can perform the following tasks: <ul style="list-style-type: none"> <li>• View all information</li> <li>• Manage the power control options such as power on, power cycle, and power off</li> <li>• Launch the KVM console and virtual media</li> <li>• Clear all logs</li> <li>• Ping</li> </ul> </li> <li>• <b>admin</b>—A user with this role can perform all actions available through the GUI, CLI, and IPMI.</li> </ul>

Name	Description
Configure button	Opens the <b>Configure LDAP Group</b> window for an active directory group with the same <b>Group Name</b> , <b>Group Domain</b> , and <b>Role</b> options listed above.  Once configured, click <b>Save Changes</b> .
Delete button	Deletes an existing LDAP group.

**Step 9** Click **Save Changes**.

## Setting User Search Precedence

### 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 **Admin** menu.
- Step 2** On the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **LDAP** tab.
- Step 4** In the **LDAP Settings** area's **User Search Precedence** field, select **Local User Database** or **LDAP User Database**.

This field allows you to specify the order of search between the above options. **Local User Database** is the default option.

## LDAP Certificates Overview

Cisco S3260 C-series servers allow an LDAP client to validate a directory server certificate against an installed CA certificate or chained CA certificate during an LDAP binding step. This feature is introduced in the event where anyone can duplicate a directory server for user authentication and cause a security breach due to the inability to enter a trusted point or chained certificate into the Cisco IMC for remote user authentication.

An LDAP client needs a new configuration option to validate the directory server certificate during the encrypted TLS/SSL communication.

## Viewing LDAP CA Certificate Status

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.

- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **LDAP** tab.
- Step 4** In the **Certificate Status** area, view the following fields:

Name	Description
<b>Download Status</b>	This field displays the status of the LDAP CA certificate download.
<b>Export Status</b>	This field displays the status of the LDAP CA certificate export.

## Exporting an LDAP CA Certificate

### Before you begin

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

You should have downloaded a signed LDAP CA Certificate before you can export it.

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **LDAP** tab.
- Step 4** Click the **Export LDAP CA Certificate** link.
- The **Export LDAP CA Certificate** dialog box appears.

Name	Description
<p><b>Export to Remote Location</b></p>	<p>Selecting this option allows you to choose the certificate from a remote location and export it. Enter the following details:</p> <ul style="list-style-type: none"> <li>• <b>TFTP Server</b></li> <li>• <b>FTP Server</b></li> <li>• <b>SFTP Server</b></li> <li>• <b>SCP Server</b></li> <li>• <b>HTTP Server</b></li> </ul> <p><b>Note</b> If you chose SCP or SFTP as the remote server type while performing this action, a pop-up window is displayed with the message <i>Server (RSA) key fingerprint is &lt;server_finger_print_ID&gt; Do you wish to continue?</i>. Click Yes or No depending on the authenticity of the server fingerprint.</p> <p>The fingerprint is based on the host's public key and helps you to identify or verify the host you are connecting to.</p> <ul style="list-style-type: none"> <li>• <b>Server IP/Hostname</b> field — The IP address or hostname of the server on which the LDAP CA certificate file should be exported. Depending on the setting in the <b>Download Certificate from</b> drop-down list, the name of the field may vary.</li> <li>• <b>Path and Filename</b> field — The path and filename Cisco IMC should use when downloading the certificate from the remote server.</li> <li>• <b>Username</b> field — The username the system should use to log in to the remote server. This field does not apply if the protocol is TFTP or HTTP.</li> <li>• <b>Password</b> field — The password for the remote server username. This field does not apply if the protocol is TFTP or HTTP.</li> </ul>
<p><b>Export to Local Desktop</b></p>	<p>Selecting this option allows you to choose the certificate stored on a drive that is local to the computer and export it.</p>

**Step 5** Click **Export Certificate**.

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## Downloading an LDAP CA Certificate

### Before you begin

- You must log in as a user with admin privileges to perform this action.
- You must enable Binding CA Certificate to perform this action.



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**Note** Only CA certificates or chained CA certificates must be used in Cisco IMC. By default, CA certificate is in .cer format. If it is a chained CA certificate, then it needs to be converted to .cer format before downloading it to Cisco IMC.

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### Procedure

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

**Step 2** In the **Admin** menu, click **User Management**.

**Step 3** In the **User Management** pane, click the **LDAP** tab.

**Step 4** Click the **Download LDAP CA Certificate** link.

The **Download LDAP CA Certificate** dialog box appears.

Name	Description
Download <b>from remote location</b> radio button	<p>Selecting this option allows you to choose the certificate from a remote location and Download it. Enter the following details:</p> <ul style="list-style-type: none"> <li>• <b>TFTP Server</b></li> <li>• <b>FTP Server</b></li> <li>• <b>SFTP Server</b></li> <li>• <b>SCP Server</b></li> <li>• <b>HTTP Server</b></li> </ul> <p><b>Note</b> If you chose SCP or SFTP as the remote server type while performing this action, a pop-up window is displayed with the message <i>Server (RSA) key fingerprint is &lt;server_finger_print_ID&gt; Do you wish to continue?.</i> Click Yes or No depending on the authenticity of the server fingerprint.</p> <p>The fingerprint is based on the host's public key and helps you to identify or verify the host you are connecting to.</p> <ul style="list-style-type: none"> <li>• <b>Server IP/Hostname</b> field — The IP address or hostname of the server on which the LDAP CA certificate file should be stored. Depending on the setting in the Download <b>Certificate from</b> drop-down list, the name of the field may vary.</li> <li>• <b>Path and Filename</b> field — The path and filename Cisco IMC should use when downloading the file to the remote server.</li> <li>• <b>Username</b> field — The username the system should use to log in to the remote server. This field does not apply if the protocol is TFTP or HTTP.</li> <li>• <b>Password</b> field — The password for the remote server username. This field does not apply if the protocol is TFTP or HTTP.</li> </ul>
Download <b>through browser client</b> radio button	<p>Selecting this option allows you to navigate to the certificate stored on a drive that is local to the computer running the Cisco IMC GUI.</p> <p>When you select this option, Cisco IMC GUI displays a <b>Browse</b> button that lets you navigate to the file you want to import.</p>
<b>Paste Certificate content</b> radio button	<p>Selecting this option allows you to copy the entire content of the signed certificate and paste it in the <b>Paste certificate content</b> text field.</p> <p><b>Note</b> Ensure the certificate is signed before uploading.</p>
Download <b>Certificate</b> button	Allows you to Download the certificate to the server.

## Testing LDAP Binding

### Before you begin

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



**Note** If you checked the **Enable Encryption** and the **Enable Binding CA Certificate** check boxes, enter the fully qualified domain name (FQDN) of the LDAP server in the LDAP Server field. To resolve the FQDN of the LDAP server, configure the preferred DNS of Cisco IMC network with the appropriate DNS IP address.

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **LDAP** tab.
- Step 4** Click the **Test LDAP Binding** link.

The **Test LDAP CA Certificate Binding** dialog box appears.

Name	Description
<b>Username</b> field	Enter the user name.
<b>Password</b> field	Enter the corresponding password.

- Step 5** Click **Test**.

## Deleting an LDAP CA Certificate

### Before you begin

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

### Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click the **LDAP** tab.
- Step 4** Click the **Delete LDAP CA Certificate** link and click **OK** to confirm.

# Viewing User Sessions

## Procedure

- Step 1** In the **Navigation** pane, click the **Admin** menu.
- Step 2** In the **Admin** menu, click **User Management**.
- Step 3** In the **User Management** pane, click **Session Management**.
- Step 4** In the **Sessions** pane, view the following information about current user sessions:

Name	Description
<b>Terminate Session</b> button	If your user account is assigned the <b>admin</b> user role, this option enables you to force the associated user session to end. <b>Note</b> You cannot terminate your current session from this tab.
<b>Session ID</b> column	The unique identifier for the session.
<b>BMC Session ID</b>	The identifier for the BMC session.
<b>User Name</b> column	The username for the user.
<b>IP Address</b> column	The IP address from which the user accessed the server. If this is a serial connection, it displays <b>N/A</b> .
<b>Session Type</b> column	The type of session the user chose to access the server. This can be one of the following: <ul style="list-style-type: none"><li>• <b>webgui</b>— indicates the user is connected to the server using the web UI.</li><li>• <b>CLI</b>— indicates the user is connected to the server using CLI.</li><li>• <b>serial</b>— indicates the user is connected to the server using the serial port.</li></ul>

