



# Getting Started

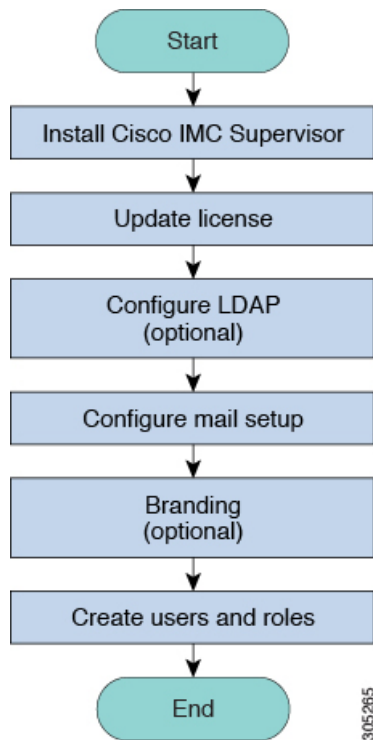
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## Overview

The following figure illustrates the workflow to setup your environment using Cisco IMC Supervisor:



## Launching Cisco IMC Supervisor

Cisco IMC Supervisor should have been successfully installed, with a correctly configured IP address.

### Before you begin

- Verify if Cisco IMC Supervisor is installed successfully.
- Ensure you have the IP address configured during the Cisco IMC Supervisor installation.

### Procedure

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Type the Cisco IMC Supervisor IP address in any browser URL and log in with the following credentials:

- User Name - **admin**
- Password - **admin**

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Once you have logged in, Cisco IMC Supervisor will launch. You will see the default dashboard view of Cisco IMC Supervisor.

# Licensing Tasks

You can use the **License** menu to view the license details and the usage of resources. The following licensing procedures are available from **Administration > License** menu.

Tab	Description
<b>License Keys</b>	This tab displays the details of the license used in Cisco IMC Supervisor. You can also use this tab to update, replace and migrate the license. You can update the license when a new version of Cisco IMC Supervisor is available.
<b>License Utilization</b>	This tab shows the licenses in use and details about each license, including license limit, available quantity, status, and remarks. License audits can also be run from this page.  <b>Note</b> Licenses for Cisco IMC Supervisor is based on the number of servers. Cisco UCS S3260 chassis is a 2-server node. As a result, in Cisco IMC Supervisor, the license utilization for this chassis is considered as 2 servers.
<b>Resource Usage Data</b>	This tabs displays the details of the various resources used.
<b>Deactivated Licenses</b>	This tab displays a list of deactivated licenses.

## Updating the License

You must perform the following procedure to update the license before you start using Cisco IMC Supervisor. For the list of valid licenses, see [About Licenses](#). You must generate a license key, claim and register the Product Access Key. After installing Cisco IMC Supervisor, the license is validated and you can start using Cisco IMC Supervisor.

### Before you begin

If you received a zipped license file by email, extract and save the **.lic** file to your local machine.

### Procedure

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- Step 1** Choose **Administration > License**.
- Step 2** On the **License** page, choose **License Keys**.
- Step 3** On the **License Keys** page, click **Update License**.
- Step 4** On the **Update License** screen, do one of the following:
- To upload a **.lic** file, click **Browse**, navigate to and select the **.lic** file, then click **Upload**.
  - For a license key, check the **Enter License Text** check box then copy and paste the license key only into the **License Text** field. The license key is typically at the top of the file, after Key ->.
- You can also copy and paste the full text of a license file into the **License Text** field.

- Step 5** Click **Submit**.  
The license file is processed, and a message appears confirming the successful update.
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## Replacing a License

You can use this procedure to replace a license in the system. This action will deactivate all other existing licenses on the systems.

### Procedure

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- Step 1** Choose **Administration > License**.
- Step 2** On the **License** page, choose **License Keys**.
- Step 3** Choose **Replace License**.
- Step 4** In the **Upload License** field, you can either drag and drop a PAK file or click **Select a File** to browse and select a file.
- Step 5** (Optional) Check **Enter License Text** to copy and paste the license text.
- Step 6** Click **Submit**.
- All existing licenses are replaced with the new license.
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## Viewing Deactivated Licenses

You can view the list of deactivated licenses from the user interface. You can view the following information on deactivated licenses:

- PAK file name
- File ID
- License Entry
- Licence Value
- Expiry Date
- Deactivated Time
- Name of user who deactivated the license

### Procedure

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- Step 1** Choose **Administration > License**.
- Step 2** On the **License** page, choose **Deactivated Licenses**.

- Step 3** Review the information displayed for all the deactivated licenses.
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## Migrating a License

Cisco IMC Supervisor allows you to migrate a license using the graphical user interface. For example, you can migrate from a perpetual license to a subscription license.

### Procedure

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- Step 1** Choose **Administration > License**.
- Step 2** On the **License** page, choose **License Keys**.
- Step 3** On the **License Keys** page, click **Migrate License**.
- Step 4** In the **Upload License** field, you can either drag and drop a PAK file or click **Select a File** to browse and select a file.
- Step 5** (Optional) Check **Enter License Text** to copy and paste the license text.
- Step 6** Click **Submit**.
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## Running License Audit

Perform this procedure when you want run license audits.

### Before you begin

The license should be updated. To upgrade the license, refer [Updating the License, on page 3](#).

### Procedure

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- Step 1** Choose **Administration > License**.
- Step 2** On the **License** page, click **License Utilization**.
- Step 3** From the **More Actions** drop-down list, choose **Run License Audit**.
- Step 4** On the **Run License Audit** screen, click **Submit**.  
This process takes some time to complete.
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# Managing User Access Profiles

## Multi-Role Access Profiles

A user can be assigned to more than one role, which is reflected in the system as a user access profile. For example, a user might log into Cisco IMC Supervisor as a group administrator and as an all-policy administrator, if both types of access are appropriate. Access profiles also define the resources that can be viewed by a user.

When LDAP users are integrated with Cisco IMC Supervisor, if a user belongs to more than one group, then the system creates a profile for each group. But by default, the domain users profile is added for LDAP users.



**Note** The **Manage Profiles** feature enables you to add, log into, edit, or delete a user access profile.

## Creating a User Access Profile

### Procedure

- Step 1** Choose **Administration > Users and Groups**.
- Step 2** On the **Users and Groups** page, click **Users**.
- Step 3** Choose a user from the list.
- Step 4** From the **More Actions** drop-down list, choose **Manage Profiles**.
- Step 5** On the **Manage Profile** page, click **Add +**.
- Step 6** On the **Add Entry to Access Profiles** page, complete the following fields:

Field Name	Description
<b>Name</b> field	The profile name.
<b>Description</b> field	The description of the profile.
<b>Type</b> drop-down list	Choose the user role type.
<b>Customer Organizations</b> drop-down list	Choose the organization to which this user profile applies.
<b>Show Resources From All Other Groups the User Has Access</b> check box	Select this checkbox to specify that the user can view resources from all other groups that they have access to or are a part of.
<b>Shared Groups</b> field	Click <b>Select</b> to choose the groups to which the user profile applies.  The user will be able to access all the resources associated with the selected groups.

Field Name	Description
<b>Default Profile</b> check box	Check the check box if this is the default user access profile. Uncheck the check box if it is not the default.

**Step 7** Click **Submit**.

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#### What to do next

Create additional user access profiles as needed.

## Logging in to a Profile

As a user in the system, if you have multiple profiles for your account, then you can log in to the system with a specific profile.

#### Procedure

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**Step 1** On the **Cisco IMC Supervisor login** page, enter your username in the **Username** field, in the format Username: Access Profile Name.

For example, Alex: GrpAdmin

**Step 2** In the **Password** field, enter your password.

**Step 3** Click **Login**.

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## Default Profile

The default profile is the first profile that you created in the system. You can change the default to another profile. Using the new default profile, you log in by entering the username and password.

## Changing a Default Profile

#### Procedure

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**Step 1** In the user interface, click the username displayed on the top right corner.

The username is displayed to the left of the **logout** option.

**Step 2** On the **User Information** page, choose the **Access Profiles** tab.

**Step 3** Choose a user profile, and click **Set as Default Profile**.

**Note** A profile can also be set as default while it is being added, or being edited.

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## Authentication and LDAP Integration

You can configure an authentication preference with a fallback choice for LDAP. You can also configure a preference with no fallback for Verisign Identity Protection (VIP) authentication.

Name	Description
Local First, fallback to LDAP	Authentication is done first at the local server (Cisco IMC Supervisor). If the user is unavailable at the local server, the LDAP server is checked.
Verisign Identity Protection	VIP Authentication Service (two-factor authentication) is enabled.

## Configuring Authentication Preferences

Perform this procedure when you want to change the login authentication type.

### Procedure

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**Step 1** Choose **Administration > Users and Groups**.

**Step 2** Choose **Authentication Preferences**.

**Step 3** From the **Authentication Preferences** drop-down list, you can choose one of the following options:

- **Local First, fallback to LDAP**

If you select this option, then you must configure LDAP servers. For more information, see [Configuring LDAP Servers, on page 12](#).

- **Verisign Identity Protection**— If you select this option, continue to the next step.

**Step 4** If you select Verisign Identity Protection, complete the following steps:

- Click **Browse** to upload a VIP certificate.  
Locate and select the certificate, and click **Upload**.
- Enter the **Password**.

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

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## Configuring LDAP

Configuring LDAP in Cisco IMC Supervisor involves adding LDAP configurations and configuring LDAP servers. You can also test the LDAP connectivity and view LDAP summary information. The following sections explain how to perform these procedures.



## LDAP Integration

You can use LDAP integration to synchronize the LDAP server's users with Cisco IMC Supervisor. LDAP authentication enables synchronized users to authenticate with the LDAP server. You can synchronize LDAP users automatically or manually. While adding an LDAP account, you can specify a frequency at which the LDAP account is synchronized automatically with Cisco IMC Supervisor. Optionally, you can manually trigger the LDAP synchronization by using the **LDAPSsyncTask** system task.

When new organizational units (OU) are added in the LDAP directory, and a synchronization process is run, either manually or automatically, the recently added LDAP users are displayed in Cisco IMC Supervisor.

In addition to running a system task, Cisco IMC Supervisor also provides an additional option for you to synchronize the LDAP directory with the system:

**Cleanup LDAP Users** system task—This system task determines if the synchronized users in the system are deleted from the LDAP directories or not. If there are user records that have been deleted from the LDAP directories, then after this system task is run, these users are marked as disabled in the system. As an administrator, you can unassign resources of these inactive users. By default, this task is in the enabled mode. It is only after you restart the services twice that this system task is set to the disabled mode.

You cannot choose users that exist locally or are synchronized externally in Cisco IMC Supervisor.



### Important

Users that do not belong to a group or a domain user's group display in LDAP as **Users with No Group**. These users are added under the domain user's group in Cisco IMC Supervisor.

You can add LDAP users that are in different LDAP server accounts but have the same name. The domain name is appended to the login user name to differentiate the multiple user records. For example, abc@vxedomain.com. This rule applies to user groups as well.

When a single LDAP account is added, and a user logs in by specifying only the user name, Cisco IMC Supervisor first determines if the user is a local user or is an LDAP user. If the user is identified as a local user and as an external LDAP user, then at the login stage, if the user name matches the local user name, then the local user is authenticated into Cisco IMC Supervisor. Alternatively, if the user name matches that of the external user, then the LDAP user is authenticated into Cisco IMC Supervisor.

## LDAP Integration Rules and Limitations

### Group Synchronization Rules

- If a chosen LDAP group already exists in Cisco IMC Supervisor and the source is type **Local**, the group is ignored during synchronization.
- If a chosen LDAP group already exists in Cisco IMC Supervisor and the group source is type **External**, the group's description and email attributes are updated in Cisco IMC Supervisor.
- While adding an LDAP server, you can now specify user filters and group filters. When you specify a group filter, all users that belong to the specified group are added to the system. In addition, the following actions are also performed:
  - If the specified group includes sub-groups, then the group, the sub-groups and the users in those sub-groups are added to the system (only applicable when you manually synchronize the LDAP directory).

- If the user is part of multiple groups, and the other groups do not match the group specified as the group filter, then those additional groups are not added to the system.
- A user can be part of multiple user groups. However, the group that is mentioned first in the list of groups that the user is part of is set as the default primary group for the user. If the user is not part of any group, then the default primary group is set as **Domain Users**.




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**Note** You can view information on all the groups that a user is part of only after the **LDAPSycTask** system task is run.

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- When an LDAP group is synchronized, all users that are in the group are first added to the system. Also, if users in the specified LDAP group are associated with other groups that are in the same OU or in a different OU, then those groups are also retrieved and added to the system.
- The LDAP synchronization process will retrieve the specified LDAP groups for the system, along with nested groups, if any.
- Prior to this release, a user was part of only one group. After an upgrade to the current release, and only after the **LDAPSycTask** system task is run, the **Manage Profiles** dialog box displays the other groups that the user is part of. This is applicable only when the other groups match the group filters that you specified while configuring the LDAP server.

### User Synchronization Rules

- LDAP users that have special characters in their names are now added to Cisco IMC Supervisor.
- While adding an LDAP server, you can now specify user filters and group filters. When you specify a user filter, all the users that match the filter you specified, and the groups that they belong to, are retrieved for the system.
- Cisco IMC Supervisor now displays the User Principal Name (UPN) for each user that is added into the system. This is applicable for users that have been added into the system in prior releases. Users can log in to the system using their login name or their user principal name. Logging in using the user principal name along with the profile name is not supported.
- If a chosen LDAP user already exists in Cisco IMC Supervisor and the source is type **Local**, the user is ignored during synchronization.
- If a chosen LDAP user already exists in Cisco IMC Supervisor and the source type is **External**, the user's name, description, email, and other attributes are updated for use.
- If a user account is created in two different LDAP directories, then the user details of the LDAP directory that was synchronized first is displayed. The user details from the other LDAP directory is not displayed.
- After LDAP directories are synchronized, the LDAP external users must login to Cisco IMC Supervisor by specifying the complete domain name along with the user name. For example, `vxedomain.cisco.com\username`. However, this rule does not apply if there is only one LDAP server directory added to Cisco IMC Supervisor.

### User Synchronization Limitations

- If a user has multiple group membership, that user has single group membership in Cisco IMC Supervisor.

**Note**

- We recommend to keep the total number of users and groups (both local and LDAP) in Cisco IMC Supervisor to 10,000 or less. If this number is exceeded, the appliance may become slow or unresponsive.
- After an LDAP synchronization process, verify that the user is assigned to the correct group.

**Best Practices**

The synchronization of thousands of LDAP objects to Cisco IMC Supervisor can lead to some performance issues in the appliance. Use the following procedure to synchronize only the required LDAP objects.

1. Create LDAP groups that contain all users that should have access to Cisco IMC Supervisor.
2. Synchronize only those groups to Cisco IMC Supervisor.

## Adding LDAP Configurations

Perform this procedure to add LDAP configurations.

**Procedure**

**Step 1** Choose **Administration > LDAP Integration**.

**Step 2** Click + to add LDAP configurations.

**Step 3** On the **Add LDAP Configurations** page, complete the following fields:

Field	Description
<b>Account Name</b> field	An LDAP account name.
<b>Server Type</b> drop-down list	Choose either Microsoft Active Directory or Open LDAP.
<b>Server</b> field	Host name or the IP address of the server.
<b>Enable SSL</b> check box	Enables a secure connection to the LDAP server.
<b>Port</b> field	The port number. It is automatically set to 636 for SSL, and 389 for non-secure mode.
<b>Domain Name</b> field	The domain name for the LDAP user.
<b>Username</b> field	Enter a name for the LDAP user.
<b>Password</b> field	Enter a password associated with the username.
<b>Synchronization Frequency</b> drop-down list	Select the frequency (hours) at which the LDAPserver must be synchronized. It can be one of the following: <ul style="list-style-type: none"> <li>• 1</li> <li>• 4</li> </ul>

Field	Description
	<ul style="list-style-type: none"> <li>• 12</li> <li>• 24</li> </ul>

**Step 4** Click **Next**.

**Step 5** On the **LDAP Search Base** page, click **Select** and choose search criteria for retrieving users based on OU from the table displayed.

**Note** Cisco IMC Supervisor supports only users and not groups. Search criteria is not mandatory based on **OU** as it can have both users as well as groups. The system sync up task runs every 24 hours and syncs up LDAP users based on the search criteria. Hence, you must perform a manual sync of only user information. To perform a manual LDAP sync, refer [Requesting Manual LDAP Sync, on page 17](#).

**Step 6** Click **Select** in the **Select** dialog box.

The search criteria you have selected is displayed next to the **Search Base** field.

**Step 7** Click **Next** in the **LDAP Search Base** dialog box.

**Step 8** Click + to add entry to user role filters table in the **LDAP User Role Filter** dialog box.

**Step 9** Enter the user role details in the **Add Entry to User Role Filters** dialog box.

**Step 10** Click **Submit**.

You can edit or delete these filters. You can also use the up or down arrows to move the filters to set priority.

**Step 11** Click **Submit** in the **LDAP User Role Filter** dialog box.

## Configuring LDAP Servers

You can configure multiple LDAP servers and accounts in Cisco IMC Supervisor. While adding LDAP accounts, you can specify the following:

- An organization unit (OU) that is part of the search base distinguished name (DN).
- A frequency at which the LDAP account is automatically synchronized with the system.
- A group or user filter to limit the results, and specify an LDAP role filter on the groups and users

Soon after an LDAP server account is added, a system task for this account is created automatically, and it immediately begins to synchronize the data. All the users and groups in the LDAP server account are added to the system. By default, all the users from the LDAP account are automatically assigned to the service end-user profile.

### Before you begin

You should have set the authentication preferences to **Local First, fallback to LDAP**.

## Procedure

**Step 1** Choose **Administration > LDAP Integration**.

**Step 2** Click **Add**.

**Step 3** On the **LDAP Server Configuration** page, complete the following fields:

Name	Description
<b>Account Name</b> field	The name of the account. This name must be unique.
<b>Server Type</b> field	The type of LDAP server. It can be one of the following: <ul style="list-style-type: none"> <li>• OpenLDAP</li> <li>• MSAD - Microsoft Active Directory</li> </ul>
<b>Server</b> field	The IP address or the host name of the LDAP server.
<b>Enable SSL</b> check box	Enables a secure connection to the LDAP server.
<b>Port</b> field	The port number. It is automatically set to 636 for SSL, and 389 for non-secure mode.
<b>Domain Name</b> field	The domain name. If you selected <b>OpenLDAP</b> as the LDAP Directory Type, then this domain name must match the domain specified with the user name. <b>Important</b> You must specify the complete domain name. For example, vxedomain.com.
<b>Username</b> field	The user name. If you selected <b>OpenLDAP</b> as the LDAP Directory Type, then specify the user names in the following format: <b>uid=users,ou=People,dc=ucsd,dc=com</b> where <b>ou</b> specified is the one all the other users are placed in the directory hierarchy.
<b>Password</b> field	The user password.

Name	Description
<b>Synchronization Frequency</b> drop-down list	Select the frequency (hours) at which the LDAP server must be synchronized. It can be one of the following: <ul style="list-style-type: none"> <li>• 1</li> <li>• 4</li> <li>• 12</li> <li>• 24</li> </ul>

**Step 4** Click **Next**.

**Step 5** In the **LDAP Search Base** pane, click **Select** to specify LDAP search base entries and click **Select**. All organization units (OU) that are available in Cisco IMC Supervisor are displayed in this list.

**Step 6** Click **Next**.

**Step 7** In the **Configure User and Group Filters** pane, complete the following fields:

Name	Description
<b>User Filters</b>	Click the + sign to select specific users that must be synchronized with the system.  All groups that the selected users are part of are retrieved and added into the system.
<b>Group Filters</b>	Click the + sign to select groups that must be synchronized with the system.  All users that are part of the groups you have selected are retrieved and added into the system. However, if the users in the group you have selected are also part of other non-selected groups, then those groups are not retrieved unless they are also selected in this field.
<b>Add Entry to User Filters</b> or <b>Add Entry to Group Filters</b> dialog box (displayed based on your previous selection)	
<b>Attribute Name</b> drop-down list	Choose either <b>Group Name</b> or <b>User Name</b> .
<b>Operator</b> drop-down list	Choose the filter to retrieve groups and users. It can be one of the following: <ul style="list-style-type: none"> <li>• <b>Equals to</b></li> <li>• <b>Starts with</b></li> </ul>
<b>Attribute Value</b> field	Specify a keyword or a value that must be included in the search.

Based on the filters, the groups or users are retrieved.

**Step 8** Click **Next**.

**Step 9** In the **LDAP User Role Filter** pane, click the + sign to add a user role filter.

**Step 10** In the **Add Entry to User Role Filters** dialog box, complete the following fields:

Name	Description
<b>Attribute Name</b> field	The name of the attribute. It can be <b>Group Name</b> .
<b>Operator</b> drop-down list	The drop-down list can be one of the following: <ul style="list-style-type: none"> <li>• <b>Equal to</b></li> <li>• <b>Starts with</b></li> </ul>
<b>Attribute Value</b> field	Specify a value in this field. All users that match the values of the <b>Operator</b> field and the <b>Attribute Value</b> field are assigned to the user role you select in the <b>Map User Role</b> drop-down list.
<b>Map User Role</b> drop-down list	Select a user role that you want the users mapped to. You can choose a role that was available by default, or you can choose a role that you created in the system. Following are the roles that are available by default in Cisco IMC Supervisor: <ul style="list-style-type: none"> <li>• Group Admin</li> <li>• Operator</li> <li>• System Admin</li> </ul>

**Step 11** Click **Submit**.

The user role filters are added to the **User Role Filters** table.

**Note** If you have multiple user role filters specified, then the filter specified in the first row is processed.  
If you manually update the role for a user, then the user role that you earlier mapped the group to, is no longer applied on the user.

### What to do next

If you have not set the authentication preference to LDAP, then you are prompted to modify the authentication preference. See [Configuring Authentication Preferences, on page 8](#).

## Viewing LDAP Server Summary Information

Perform this procedure to view the summary information of the LDAP server.

### Procedure

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- Step 1** Choose **Administration > LDAP Integration**.
  - Step 2** Choose an LDAP account name from the table.
  - Step 3** Click **View**.  
The **View LDAP Account Information** screen displays LDAP account summary information.
  - Step 4** Click **Close**.
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## Testing LDAP Server Connectivity

Perform this procedure to test the LDAP connection.

### Procedure

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- Step 1** Choose **Administration > LDAP Integration**.
  - Step 2** Choose an LDAP account name from the table.
  - Step 3** Click **Test Connection**.  
The status of the connection is displayed.
  - Step 4** Click **Close** in the **Test LDAP Connectivity** dialog box.
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## Searching BaseDN

Perform this procedure to search the BaseDN.

### Procedure

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- Step 1** Choose **Administration > LDAP Integration**.
  - Step 2** Click **Search BaseDN**.  
**Note** Cisco IMC Supervisor supports only users and not groups. Search criteria is not mandatory based on **OU** as it can have both users as well as groups.
  - Step 3** Click **Select** in the **LDAP Search Base** dialog box.
  - Step 4** Choose one or more users and click **Select** in the **Select** dialog box.
  - Step 5** Click **Submit** in the **LDAP Search Base** dialog box.
-



## Requesting Manual LDAP Sync

Requesting manual LDAP synchronization enables you to specify either basic or advanced search criteria to retrieve LDAP users and groups. Perform this procedure for manual LDAP synchronization.

### Procedure

- Step 1** Choose **Administration > LDAP Integration**.
- Step 2** Click **Request Manual LDAP Sync**.
- Step 3** On the **Manual LDAP Sync** page, complete the following fields:

Name	Description
<b>Basic Search</b> check box	Enables basic search by organization unit.
<b>Advanced Search</b> check box	Enables advanced search.

**Note** When you use either of the search options, if the users and groups already exist in Cisco IMC Supervisor, then the same users and groups are not populated after performing the search.

- Step 4** For basic search, click **Select** to specify the search base.
- Step 5** Choose the search base DN, and click **Select** and continue to Step 9.
- Step 6** For advanced search, in the **Advanced Filtering Options** pane, add or edit attribute names for **User Filters** and **Group Filters**.
- Step 7** Click **Next**.
- Step 8** On the **Select Users and Groups** page, complete the following fields:

Name	Description
<b>LDAP Groups</b> field	The LDAP groups from which the users must be synchronized.
<b>LDAP Users</b> field	The LDAP users that must be synchronized.

- Step 9** Click **Submit**.
- Choose **Administration > Users and Groups** and click **Users** to see the synchronized users.

## Executing LDAP Synchronization and Viewing LDAP Synchronized Results

Perform this procedure to execute and view the LDAP synchronized results.

### Procedure

- Step 1** Choose **Administration > System**.
- Step 2** On the **System** page, click **System Tasks**.

- Step 3** Expand **User and Group Tasks** and select **LDAPSyncTask**.
- Step 4** Click **Run Now**.
- Step 5** Click **Submit**.
- Step 6** (Optional) Click **Manage Task** to enable or disable the synchronization process.

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### What to do next

The results of the synchronization process are displayed in Cisco IMC Supervisor. On the **LDAP Integration** page, select an LDAP account and click **Results** to view the summary of the synchronization process.

## Modifying LDAP Server Details

You can only modify the following details for a configured LDAP server:

- Port numbers and SSL configuration
- User name and password
- Synchronization frequency
- Search BaseDN selections
- User roles and groups that are mapped

Perform the following procedure to modify the LDAP server details.

### Procedure

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- Step 1** Choose **Administration > LDAP Integration**.
- Step 2** Select an LDAP account.
- Step 3** Click **Modify**.
- Step 4** On the **LDAP Server Configuration** page, edit the following fields:

Name	Description
<b>Enable SSL</b> check box	Enables a secure connection to the LDAP server.
<b>Port</b> field	The port number. It is automatically set to 636 for SSL, and 389 for non-secure mode.
<b>Username</b> field	The user name. If you selected <b>OpenLDAP</b> as the LDAP Directory Type, then specify the user names in the following format: <b>uid=users,ou=People,dc=ucsd,dc=com</b> where <b>ou</b> specified is the one all the other users are placed in the directory hierarchy.

Name	Description
<b>Password</b> field	The user password.
<b>Synchronization Frequency</b> drop-down list	Choose the frequency (in hours) at which the LDAP server is synchronized with the system database. It can be one of the following: <ul style="list-style-type: none"> <li>• 1</li> <li>• 4</li> <li>• 12</li> <li>• 24</li> </ul>

- Step 5** Click **Next**.
- Step 6** Edit the **LDAP Search Base** entries and click **Next**.
- Step 7** Select and edit the required attributes in the **User Filters** and **Group Filters** table and click **Next**.
- Step 8** Select and edit entries in the **LDAP User Role Filter** table.
- Step 9** Click add, edit, delete, or move table entries using up and down arrows.
- Step 10** Click **Submit**.

## Viewing Group Membership Information

Any user in the system can be part of multiple user groups. When a user is added to the system, all groups that the user is part of are also added to the system. However, the group that the user was most recently added to is set as the default primary group for the user. If the user is not part of any group, then the default primary group is set as **Domain Users**. While you can use the **Manage Profiles** option to view and modify group membership for users, Cisco IMC Supervisor also provides you with an additional option to view a list of all groups that a specific user is part of.

### Procedure

- Step 1** Choose **Administration > Users and Groups**.
- Step 2** Click **Users**.
- Step 3** Select a user from the table.
- Step 4** Click **Group Membership**.
- The **Member Of** screen displays all the groups that the user is part of.
- Step 5** Click **Close**.

## Deleting LDAP Server Information

Deleting an LDAP server account only results in deleting the search criteria, BaseDNs, and system entries related to this LDAP server. Users attached to the LDAP server are not deleted. Perform this procedure to delete the LDAP server information.

### Procedure

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- Step 1** Choose **Administration > Users and Groups**.
- Step 2** Choose **LDAP Integration**.
- Step 3** Choose an LDAP account name from the table.
- Step 4** Click **Delete**.
- Step 5** In the confirmation dialog box, click **Delete**.

This initiates the deletion of the LDAP account in Cisco IMC Supervisor. Based on the number of users in the LDAP account, this deletion process could take a few minutes to complete. During such time, the LDAP account may still be visible in Cisco IMC Supervisor. Click **Refresh** to ensure that the account has been deleted.

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## Configuring SFTP User Password

An SFTP user is used by server diagnostics and tech support upload operations for transferring file to the Cisco IMC Supervisor appliance using SFTP. An SFTP user account cannot be used to login to the Cisco IMC Supervisor UI or the shelladmin.

Perform this procedure to configure a password for an SFTP user.

### Procedure

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- Step 1** Choose **Administration > Users and Groups**.
  - Step 2** Click **SFTP User Configuration**.
  - Step 3** Enter the SFTP user password in the **Password** field.
  - Step 4** Click **Submit**.
- 

## Configuring Mail Setup

All outgoing emails from Cisco IMC Supervisor require an SMTP server. Cisco IMC Supervisor generated emails such as alerts for faults and so on are sent to the mail setup you have configured using the following procedure. For more information about adding email alert rules, see [Adding Email Alert Rules for Server Faults](#).

### Procedure

- Step 1** Choose **Administration > System**.
- Step 2** Click **Mail Setup**.
- Step 3** On the **Mail Setup** page, complete the following fields:

Field	Description
<b>Outgoing Email Server (SMTP)</b>	IP address of the server or the domain name.
<b>Outgoing SMTP Port</b>	Port number for the SMTP server.
<b>Outgoing SMTP User</b>	(Optional) The outgoing SMTP user ID to use for SMTP authentication.
<b>Outgoing SMTP Password</b>	(Optional) The password for the outgoing SMTP user ID to use for SMTP authentication.
<b>Outgoing Email Sender Email Address</b>	The From address of the outgoing Cisco IMC Supervisor generated emails.
<b>Server IP Address</b>	IP address of the server running Cisco IMC Supervisor.
<b>Send Test Email</b> checkbox	Check this check box to send a test email to the configured address.

- Step 4** Click **Save**.

## Configuring Cisco.com User Credentials and Proxy Configuration

You can configure Cisco user credentials and proxy details from **Administration > System**. The Cisco.com user and proxy credentials are application wide settings. These credentials are automatically used for firmware image download and updating Cisco IMC Supervisor. Cisco smart call home also uses these proxy details.

### Configuring Cisco.com User

Perform this procedure when you want to configure your Cisco.com user name and password.

#### Procedure

- Step 1** Choose **Administration > System**.
- Step 2** On the **System** page, click **Cisco.com User Configuration**.
- Step 3** Complete the following fields for configuring the Cisco.com user:

Field	Description
<b>User Name (cisco.com) field</b>	Enter your Cisco login user name.

Field	Description
Password (cisco.com) field	Enter your Cisco login password.

**Step 4** Click **Save**.

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## Configuring Proxy Settings

Perform this procedure when you want to configure your proxy settings.

### Procedure

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- Step 1** Choose **Administration > System**.
- Step 2** On the **System** page, click **Proxy Configuration**.
- Step 3** Complete the following for proxy configuration:

Field	Description
<b>Enable Proxy Configuration</b> check box	(Optional) Check this check box to enable proxy and complete the following: <ul style="list-style-type: none"> <li>• <b>Host Name</b> field - Enter a host name for the proxy configuration.</li> <li>• <b>Port</b> field - Enter the port for the proxy configuration.</li> </ul>
<b>Enable Proxy Authentication</b> check box	(Optional) Check this check box to enable proxy authentication and complete the following: <ul style="list-style-type: none"> <li>• <b>Proxy User Name</b> field - Enter a proxy user name for the proxy authentication.</li> <li>• <b>Proxy Password</b> field - Enter the password for the proxy user name.</li> </ul>

**Step 4** Click **Save**.

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## Setting Up CMDB Integration

The Configuration Management Database (CMDB) is used to track and manage changes in the system. CMDB typically displays ADD, DELETE, or MODIFY event types on resources such as service requests, groups, and so on.

## Procedure

- Step 1** Choose **Administration > Integration**.
- Step 2** On the **Integration** page, click **CMDB Integration Setup**.
- Step 3** In the **CMDB Integration Setup** screen, complete the required fields, including the following:

Name	Description
<b>Export to FTP Server</b> check box	Check the check box to export change records to an FTP server.
<b>Export Format</b> drop-down list	Choose the type of export format: CSV or XML.
<b>FTP Server</b> field	The FTP server address.
<b>FTP Port</b> field	The FTP server port number.
<b>FTP User</b> field	The FTP user ID.
<b>FTP Password</b> field	The FTP user password.
<b>FTP Export Frequency</b> drop-down list	Choose how often the change records are exported to the FTP server.
<b>FTP File Name</b> field	The filename for the exported change records. The following variables can be used to create new filenames each time that a file is exported to the target FTP server:  MONTH, WEEK, DAY, YEAR, HOUR, MIN, SEC, MLLIS.  Example: XYZ-\$DAY-\$HOUR-\$MIN-\$SEC
<b>Test FTP</b> check box	Check the check box to test FTP settings.

- Step 4** Click **Save**.

## Branding

A login page can be configured to display a logo that is associated with a domain name. When the end user logs in from that domain, the user sees the custom logo on the login page. The optimal image size for a logo is 890 pixels wide and 470 pixels high, with 255 pixels allowed for white space. Cisco recommends that you keep the image size small to enable faster downloads.

## Adding New Login Branding Page

Perform this procedure when you want to add a new login branding page.

### Procedure

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- Step 1** Choose **Administration > Users and Groups**.
- Step 2** Click **Login Page Branding**.
- Step 3** Click **Add**.
- Step 4** On the **Domain Branding** page, complete the following:

Field	Description
<b>Domain Name</b> field	A domain name for branding. For example, imcs.xxxx.com.  <b>Note</b> For creating a domain name in your local machine, navigate to C:\Windows\System32\drivers\etc and specify the <ipaddress> and <domainname> in the hosts file. For example, 10.10.10.10 imcs.xxxx.com.
<b>Custom Domain Logo</b> checkbox	(Optional) If you want to add a logo, check this checkbox and do the following:  <ol style="list-style-type: none"> <li>a. Click <b>Browse</b>.</li> <li>b. Navigate to a logo and choose the file.</li> <li>c. Click <b>Open</b>.</li> </ol>

- Step 5** Click **Submit**.
- Step 6** In the confirmation dialog box, click **OK**.
- Note** You can edit, delete, and clone the customized login page you have created.
- 

## Configuring User Interface Settings

You can use this procedure to customize the Cisco IMC Supervisor application. You can modify the application header, the administrator and end-user portal based on your requirement. The header containing the logo, application name, and links such as logout can also be hidden.

### Procedure

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- Step 1** Choose **Administration > User Interface Settings**.
- Step 2** On the **User Interface Settings** page, complete the following:

Field	Description
<b>Hide Entire Header</b> check box	Use this check box to enable or disable the header.
<b>Product Name</b> field	Main title of the header.



Field	Description
<b>Product Name 2nd Line</b> field	Sub-title of the header.
<b>Enable About Dialog</b> checkbox	Use this checkbox to enable or disable the <b>About</b> dialog box for Cisco IMC Supervisor.
<b>Administrator Portal</b>	
<b>Custom Link 1 Lable</b> field	You can configure this field to change the text on header bar.
<b>Custom Link 1 URL</b> field	You can configure the URL for the <b>Custom Link 1 Lable</b>
<b>Custom Link 2 Lable</b> field	You can configure this field to change the text on header bar.
<b>Custom Link 2 URL</b> field	You can configure the URL for the <b>Custom Link 2 Lable</b>
<b>End-user Portal</b>	
<b>Custom Link 1 Lable</b> field	You can configure this field to change the text on header bar.
<b>Custom Link 1 URL</b> field	You can configure the URL for the <b>Custom Link 1 Lable</b>
<b>Custom Link 2 Lable</b> field	You can configure this field to change the text on header bar.
<b>Custom Link 2 URL</b> field	You can configure the URL for the <b>Custom Link 2 Lable</b>

**Step 3** Click **Save**.

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