

Managing User Accounts

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Configuring Local Users

Before you begin

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

	Command or Action	Purpose
Step 1	Server# scope user usernumber	Enters user command mode for user number <i>usernumber</i> .
Step 2	Server /user # set enabled {yes no}	Enables or disables the user account on the Cisco IMC.
Step 3	Server /user # set name username	Specifies the username for the user.
Step 4	Server /user # set password	You are prompted to enter the password twice.

	Command or Action	Purpose	
		When strong pass you must follow the while setting a pass	nese guidelines
		• The password minimum of of 14 charact	8 and a maximum
		• The password the User's Na	l must not contain me.
		• The password characters fro following fou	om three of the
			uppercase rs (A through Z)
			lowercase rs (a through z)
		• Base 10 9)	digits (0 through
			habetic characters \$, %, ^, &, *, -,
		when strong passy you can set a pass characters of your (alphanumeric, spe integers) within th	word using choice ecial characters, or
Step 5	Server /user # set role {readonly user admin}	Specifies the role assigned to are as follows:	the user. The roles
		• readonly—This user car but cannot make any ch	
		• user—This user can do	the following:
		• View all informati	on
		 Manage the power such as power on, power off 	
		• Launch the KVM of media	console and virtual
		• Clear all logs	
		• Toggle the locator	LED

	Command or Action	Purpose
		Set the time zone
		• Ping an IP address
		admin—This user can perform all actions available through the GUI, CLI, and IPMI.
Step 6	Server /user # commit	Commits the transaction to the system configuration.

This example configures user 5 as an admin:

```
Server# scope user 5
Server /user # set enabled yes
Server /user *# set name john
Server /user *# set password
Warning:
Strong Password Policy is enabled!
For CIMC protection your password must meet the following requirements:
       The password must have a minimum of 8 and a maximum of 14 characters.
       The password must not contain the User's Name.
       The password must contain characters from three of the following four categories.
          English uppercase characters (A through Z)
           English lowercase characters (a through z)
           Base 10 digits (0 through 9)
Please enter password:
Please confirm password:
Server /user *# set role readonly
Server /user *# commit
Server /user # show
User Name
                     Role Enabled
_____
    john
                    readonly yes
```

Disabling Strong Password

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 Cisco IMC CLI provides you option 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 perform this action.

Procedure

	Command or Action	Purpose
Step 1	Server# scope user-policy	Enters user policy command mode.
Step 2	Server /user-policy # set password-policy {enabled disabled}	At the confirmation prompt, enter y to complete the action or n to cancel the action. Enables or disables the strong password.
Step 3	Server /user-policy # commit	Commits the transaction to the system configuration.

Example

This example shows how to disable strong password:

```
Server# scope user-policy
Server /user-policy # set password-policy disabled
Warning: Strong password policy is being disabled.
Do you wish to continue? [y/N] y
Server /user-policy *# commit
Server /user-policy #
```

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 for Users

Procedure

	Command or Action	Purpose
Step 1	Server # scope user-policy	Enters the user policy command mode.
Step 2	Server /user-policy # scope password-expiration	Enters the password expiration command mode.
Step 3	Server /user-policy/password-expiration # set password-expiry-duration integer in the range 0-3650	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 0 to 3650 days. Entering 0 disables this option.
Step 4	Server/user-policy/password-expiration * # set notification-period integer in the range 0-15	Notifies the time by when the password expires. Enter a value between 0 to 15 days. Entering 0 disables this option.
Step 5	Server/user-policy/password-expiration * # set grace-period integer in the range 0-5 Time period till when the existing still be used, after it expires. Enter between 0 to 5 days. Entering 0 coption.	
Step 6	Server/user-policy/password-expiration * # set password-history integer in the range 0-5 The number of occurrences when was entered. When this is enable repeat a password. Enter a value 5. Entering 0 disables this option	
Step 7	Server /user-policy/password-expiration *# commit	Commits the transactions.
Step 8	(Optional) Server /user-policy/password-expiration#show detail	Shows the password expiration details.
Step 9	(Optional) Server /user-policy/password-expiration # restore	At the confirmation prompt, enter yes to restore the password expiry settings to default values.

Example

This example sets the password expiration and restore the settings to default vales:

```
Server # scope user-policy
Server /user-policy # scope password-expiration
Server /user-policy/password-expiration # set password-expiry-duration 5
Server /user-policy/password-expiration * # set notification-period 2
Server /user-policy/password-expiration *# set grace-period 1
Server /user-policy/password-expiration *# set password-history 4
Server /user-policy/password-expiration *# commit
Server /user-policy/password-expiration # show detail
```

```
Password expiration parameters:
Valid password duration: 5
Number of stored old passwords: 4
Notification period: 2
Grace period: 1
Server /user-policy/password-expiration #
Restoring the password expiry parameters to default values:
Server /user-policy/password-expiration # restoreAre you sure you want to restore User password expiration parameters to defaults?
Please enter 'yes' to confirm:yes
Server /user-policy/password-expiration #
```

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 enabling encryption in the configuration of Active Directory on the server, 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.



Important

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



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.

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.

Procedure

- **Step 1** Ensure that the LDAP schema snap-in is installed.
- **Step 2** 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 3** 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 4** 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 in Cisco IMC

Configure LDAP in Cisco IMC when you want to use an LDAP server for local user authentication and authorization.

Before you begin

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

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode.
Step 2	Server /ldap # set enabled {yes no}	Enables or disables LDAP security. When enabled, user authentication and role authorization is performed by LDAP for user accounts not found in the local user database.
Step 3	Server/ldap#set domainLDAP domain name	Specifies an LDAP domain name.
Step 4	Server /ldap # set timeout seconds	Specifies the number of seconds the Cisco IMC waits until the LDAP search operation times out. The value must be between 0 and 1800 seconds.
Step 5	Server /ldap # set encrypted {yes no}	If encryption is enabled, the server encrypts all information sent to AD.
Step 6	Server /ldap # set base-dn domain-name	Specifies the Base DN that is searched on the LDAP server.
Step 7	Server /ldap # set attribute name	Specify 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.
		You can use an existing LDAP attribute that is mapped to the Cisco IMC user roles and locales or you can create a custom attribute, such as the CiscoAVPair attribute, which has the following attribute ID:
		Note If you do not specify this property, user access is denied.
Step 8	Server /ldap # set filter-attribute	Specifies the account name attribute. If Active Directory is used, then specify sAMAccountName for this field.
Step 9	Server /ldap # commit	Commits the transaction to the system configuration.
Step 10	Server /ldap # show [detail]	(Optional) Displays the LDAP configuration.

This example configures LDAP using the CiscoAVPair attribute:

```
Server# scope ldap
Server /ldap # set enabled yes
Server /ldap *# set domain sample-domain
Server /ldap *# set timeout 60
Server /ldap *# set encrypted yes
Server /ldap *# set base-dn example.com
Server /ldap *# set attribute CiscoAVPair
Server /ldap *# set filter-attribute sAMAccountName
Server /ldap *# commit
Server /ldap # show detail
LDAP Settings:
   Enabled: yes
    Encrypted: yes
    Domain: sample-domain
   BaseDN: example.com
   Timeout: 60
   Filter-Attribute: sAMAccountName
   Attribute: CiscoAvPair
Server /ldap #
```

What to do next

If you want to use LDAP groups for group authorization, see Configuring LDAP Groups in Cisco IMC.

Configuring LDAP Groups in Cisco IMC



Note

When Active Directory (AD) group authorization is enabled and configured, user authentication is also done on the group level for users that are not found in the local user database or who are not individually authorized to use Cisco IMC in the Active Directory.

Before you begin

- You must log in as a user with admin privileges to perform this task.
- Active Directory (or LDAP) must be enabled and configured.

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode for AD configuration.
Step 2	Server /ldap# scope ldap-group-rule	Enters the LDAP group rules command mode for AD configuration.

	Command or Action	Purpose
Step 3	Server/ldap/ldap-group-rule# set group-auth {yes no}	Enables or disables LDAP group authorization.
Step 4	Server /ldap # scope role-group index	Selects one of the available group profiles for configuration, where <i>index</i> is a number between 1 and 28.
Step 5	Server /ldap/role-group # set name group-name	Specifies the name of the group in the AD database that is authorized to access the server.
Step 6	Server /ldap/role-group # set domain domain-name	Specifies the AD domain the group must reside in.
Step 7	Server/ldap/role-group # set role {admin user readonly}	Specifies the permission level (role) assigned to all users in this AD group. This can be one of the following:
		• admin—The user can perform all actions available.
		• user —The user can perform the following tasks:
		View all information
		 Manage the power control options such as power on, power cycle, and power off
		Launch the KVM console and virtual media
		• Clear all logs
		• Toggle the locator LED
		• readonly—The user can view information but cannot make any changes.
Step 8	Server /ldap/role-group # commit	Commits the transaction to the system configuration.

This example shows how to configure LDAP group authorization:

```
Server# scope ldap
Server /ldap # scope ldap-group-rule
Server /ldap/ldap-group-rule # set group-auth yes
Server /ldap *# scope role-group 5
Server /ldap/role-group # set name Training
Server /ldap/role-group* # set domain example.com
Server /ldap/role-group* # set role readonly
Server /ldap/role-group* # commit
```

ucs-c250-M2 /ldap # show role-group				
Group	Group Name	Domain Name	Assigned Role	
1	(n/a)	(n/a)	admin	
2	(n/a)	(n/a)	user	
3	(n/a)	(n/a)	readonly	
4	(n/a)	(n/a)	(n/a)	
5	Training	example.com	readonly	

Server /ldap/role-group #

Configuring Nested Group Search Depth in LDAP Groups

You can search for an LDAP group nested within another defined group in an LDAP group map.

- You must log in as a user with admin privileges to perform this task.
- Active Directory (or LDAP) must be enabled and configured.

Procedure

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode for AD configuration.
Step 2	Server /ldap# scope ldap-group-rule	Enters the LDAP group rules command mode for AD configuration.
Step 3	Server /ldap/ldap-group-rule # set group-search-depth value	Enables search for a nested LDAP group.
Step 4	Server /ldap/role-group-rule # commit	Commits the transaction to the system configuration.

Example

This example shows how to search for run a search for an LDAP group nested within another defined group.

```
Server# scope ldap
Server /ldap # scope ldap-group-rule
Server /ldap/ldap-group-rule # set group-search-depth 10
Server /ldap/role-group-rule* # commit
Server /ldap/role-group-rule # show detail
Group rules for LDAP:
    Group search attribute: memberOf
    Enable Group Authorization: yes
    Nested group search depth: 10
Server/ldap/ldap-group-rule #
```

LDAP Certificates Overview

Cisco 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.

Exporting LDAP CA Certificate

Before you begin

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

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode.
Step 2	Server# /ldap scope binding-certificate	Enters the LDAP CA certificate binding command mode.
Step 3	Server /ldap/binding-certificate # export-ca-certificate remote-protocol IP Adderss LDAP CA Certificate file	Specifies the protocol to connect to the remote server. It can be of the following types: • TFTP • FTP • SFTP • SCP • HTTP

C	Command or Action	Purpose	
		Note	The Cisco UCS C-Series server now supports fingerprint confirmation of the server when you update firmware through a remote server. This option is available only if you choose SCP or SFTP as the remote server type.
			If you chose SCP or SFTP as the remote server type while performing this action, a prompt with the message Server (RSA) key fingerprint is <server_finger_print _id=""> Do you wish to continue? Click y or n depending on the authenticity of the server fingerprint.</server_finger_print>
			The fingerprint is based on the host's public key and helps you to identify or verify the host you are connecting to.
		Initiates t	the export of the certificate.

This example exports the LDAP certificate:

```
Server # scope ldap
Server /ldap # scope binding-certificate
Server /ldap/binding-certificate # export-ca-certificate tftp 172.22.141.66 test.csv
Initiating Export
  % Total % Received % Xferd Average Speed Time
                                                         Time
                                                                  Time Current
                               Dload Upload Total Spent
                                                                Left Speed
                 0 100 1262
0 100 1262
          0
                                0 1244 0:00:01 0:00:01 --:--: 1653
0 1237 0:00:01 0:00:01 --:--: 1237
100 1262
100 1262
LDAP CA Certificate is exported successfully
Server /ldap/binding-certificate #
```

Downloading LDAP CA Certificate Content by Copying Content

Before you begin

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

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode.

	Command or Action	Purpose
Step 2	Server#/ldap scope binding-certificate	Enters the LDAP CA certificate binding command mode.
Step 3	Server#/ldap/binding-certificate set enabled {yes no}	Enables or disables LDAP CA certificate binding.
Step 4	Server /ldap/binding-certificate* # commit	Commits the transaction to the system configuration.
Step 5	Server /ldap/binding-certificate # paste-ca-certificate	Prompts you to paste the certificate content.
Step 6	Paste the certificate content and press CTRL+D.	Confirmation prompt appears.
Step 7	At the confirmation prompt, enter y.	This begins the download of the LDAP CA certificate.

This example downloads the LDAP certificate:

```
Server # scope ldap
Server /ldap # scope binding-certificate
Server /ldap/binding-certificate # set enabled yes
Server /ldap/binding-certificate *# commit
Server /ldap/binding-certificate # show detail
LDAP binding with Certificate:
   Enabled: yes
Server /ldap/binding-certificate # paste-ca-certificate
Please paste your certificate here, when finished, press CTRL+D.
----BEGIN CERTIFICATE----
MIIDdzCCAl+gAwIBAgIQV06yJcJPAYN08Cp+FYQttjANBgkqhkiG9w0BAQsFADBO
MRIwEAYKCZImiZPyLGQBGRYCaW4xGzAZBgoJkiaJk/IsZAEZFgs0T0JKUkEySkhC
{\tt UTEbMBkGA1UEAxMSV01OLTRPQkpSQTJKSEJRLUNBMB4XDTE2MDIyNTE3MDczNloX}
DTIxMDIyNTE3MTczM1owTjESMBAGCgmSJomT8ixkARkWAmluMRswGQYKCZImiZPy
LGQBGRYLNE9CSlJBMkpIQlExGzAZBgNVBAMTEldJTi00T0JKUkEySkhCUS1DQTCC
\verb|ASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAMM2cdgmrPTkZe4K2zI+EbeZ| \\
mfQnjfiUz80IY97w81C/2S4qK46T+fnX13rXe8vvVHA05wqPDVQTGS4nlF46A6Ba
FK+krKcIgFrQB1gnF74qs/ln1YtKHNBjrvg5KyeWFrA7So6Mi2XEw8w/zMPL0d8T
b+LM1YnhnuXA9G8gVCJ/iUhXfMpB20L8sv30Mek7bw8x2cxJYTuJAviVIrjSwU5j
f03WKttRuyFpe0Ii00weklpF0+8D3Z9mBinoTbL2pl0U32am6wTI+8WmtJ+8W68v
jH4Y8YBY/kzMHdpwjpdZkC5pE9BcM0rL9xKoIu6X0kSNEssoGnepFyNaH3t8vnMC
AwEAAaNRME8wCwYDVR0PBAQDAqGGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR0OBBYE
FBAUulHTAWBT10Bz8IgAEzXsfcCsMBAGCSsGAQQBgjcVAQQDAgEAMA0GCSqGSIb3
DQEBCwUAA4IBAQAzUMZr+0r1dWkVfFNBd7lu8tQbAEJf/A7PIKnJGNoUq8moAGs4
pMndoxdpNGZhYCWDWX3GWdeF1HqZHhb38qGQ9ylu0pIK7tqQufZmeCBH6T7Tzq/w
Dq+TMFGIjXF84xW3N665y4ePgUcUI7e/6aBGcGkGeUYodBPtExe28tQyeuYwD4Zj
\verb|nLuZKkT+I4PAYygVCqxDGsvfRHDpGneb3R+GeonOf4ED/0tn5PLSL9khb9qkHu/V| \\
dO3/HmKVzUhloTDBuAMq/wES2WZAWhGr3hBc4nWQNjZWEMOKDpYZVK/GhBmNF+xi
eRcFqgh64oEmH9qAp0caGS1e7UyYaN+LtPRe
----END CERTIFICATE----
CTRL+D
  You are going to overwrite the LDAP CA Certificate.
  Are you sure you want to proceed and overwrite the LDAP CA Certificate? [y|N]
Server /ldap/binding-certificate #
```

Downloading LDAP CA Certificate Using Remote Server

Before you begin

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

	Command or Action	Purpose	
Step 1	Server# scope ldap	Enters the LDAP command mode. Enters the LDAP CA certificate binding command mode.	
Step 2	Server#/ldap scope binding-certificate		
Step 3	Server# /ldap/binding-certificate set enabled {yes no}	Enables or disables LDAP CA certificate binding.	
Step 4	Server /ldap/binding-certificate* # commit	Commits the transaction to the system configuration.	
Step 5	Server /ldap/binding-certificate # download-ca-certificate remote-protocol IP Address LDAP CA Certificate file		Р ГР Р

	Command or Action	Purpose
Step 6	1 1 ,	This begins the download of the LDAP CA certificate.

This example downloads the LDAP certificate:

```
Server # scope ldap
Server /ldap # scope binding-certificate
Server /ldap/binding-certificate # set enabled yes
Server /ldap/binding-certificate *# commit
Server /ldap/binding-certificate # show detail
LDAP binding with Certificate:
   Enabled: yes
Server /ldap/binding-certificate # download-ca-certificate tftp 172.22.141.66
new com chain.cer
 % Total % Received % Xferd Average Speed
                                              Time
                                                      Time
                                                              Time Current
                               Dload Upload
                                             Total
                                                     Spent
                                                              Left Speed
100 1282 100 1282
                      0
                            0
                               1247
                                         0 0:00:01 0:00:01 --:-- 1635
                    0 0 1239
100 1282 100 1282
                                        0 0:00:01 0:00:01 --:-- 1239
 You are going to overwrite the LDAP CA Certificate.
 Are you sure you want to proceed and overwrite the LDAP CA Certificate? [y|N]y
LDAP CA Certificate is downloaded successfully
Server /ldap/binding-certificate #
```

Testing LDAP Binding

Before you begin

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



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.

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode.
Step 2	Server#/ldap scope binding-certificate	Enters the LDAP CA certificate binding command mode.
Step 3	Server /ldap/binding-certificate # test-ldap-binding username	Password prompt appears.
Step 4	Enter the corresponding password.	Authenticates the user.

This example tests the LDAP user binding:

```
Server # scope ldap
Server /ldap # scope binding-certificate
Server /ldap/binding-certificate # test-ldap-binding user
Password:
diagldapbinding: Authenticated by LDAP
User user authenticated successfully.
Server /ldap/binding-certificate #
```

Deleting LDAP CA Certificate

Before you begin

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

Procedure

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the LDAP command mode.
Step 2	Server#/ldap scope binding-certificate	Enters the LDAP CA certificate binding command mode.
Step 3	Server /Idap/binding-certificate # delete-ca-certificate	Confirmation prompt appears.
Step 4	At the confirmation prompt, enter y.	This deletes the LDAP CA certificate.

Example

This example deletes the LDAP certificate:

```
Server # scope ldap
Server /ldap # scope binding-certificate
Server /ldap/binding-certificate # delete-ca-certificate
You are going to delete the LDAP CA Certificate.
Are you sure you want to proceed and delete the LDAP CA Certificate? [y|N]y
LDAP CA Certificate is deleted successfully
Server /ldap/binding-certificate #
```

Setting User Search Precedence

Procedure

	Command or Action	Purpose
Step 1	Server# scope ldap	Enters the BIOS command mode.
Step 2	Server# /ldap set userSearchPrecedence {localUserDB ldapUserDB}	Sets the user search precedence to the LDAP database or the local user database depending on the option you choose.
Step 3	Server# /ldap * commit	Commits the transaction.
Step 4	(Optional) Server#/ldap show detail	Shows the LDAP details.

Example

This example sets the user search precedence:

```
Server # scope ldap
Server /ldap # set userSearchPrecedence localUserDB
Server /ldap * # commit
Server /ldap # show detail
LDAP Settings:
Enabled: yes
Encrypted: no
Local User Search Precedence: localUserDB
Domain: new.com
Base DN: DC=new, DC=com
Timeout: 60
Filter Attribute: sAMAccountName
Attribute: CiscoAvPair
Server /ldap #
```

Viewing User Sessions

Procedure

	Command or Action	Purpose
Step 1	Server# show user-session	Displays information about current user sessions.

The command output displays the following information about current user sessions:

Name	Description	
Terminate Session button	If your user account is assigned the admin user role, this option enables you to force the associated user session to end.	
	Note You cannot terminate your current session from this tab.	
Session ID column	The unique identifier for the session.	
User name column	The username for the user.	
IP Address column	The IP address from which the user accessed the server. If this is a serial connection, it displays N/A .	
Type column	The type of session the user chose to access the server. This can be one of the following:	
	• webgui— indicates the user is connected to the server using the web UI.	
	• CLI— indicates the user is connected to the server using CLI.	
	• serial— indicates the user is connected to the server using the serior.	

This example displays information about current user sessions:

Server# show user-session					
ID	Name	IP Address	Type	Killable	
15	admin	10.20.30.138	CLI	yes	
Server	/user #				

Terminating a User Session

Before you begin

You must log in as a user with admin privileges to terminate a user session.

	Command or Action	Purpose
Step 1	Server# show user-session	Displays information about current user sessions. The user session to be terminated must be eligible to be terminated (killable) and must not be your own session.

	Command or Action	Purpose
Step 2	Server /user-session # scope user-session session-number	Enters user session command mode for the numbered user session that you want to terminate.
Step 3	Server /user-session # terminate	Terminates the user session.

This example shows how the admin at user session 10 terminates user session 15:

Server# show user-session

ID	Name	IP Address	Type	Killable
10	admin	10.20.41.234	CLI	yes
15	admin	10.20.30.138	CLI	yes
_	II .			

Server# scope user-session 15
Server /user-session # terminate

User session 15 terminated.

Server /user-session #