

Institute of Computer Technology
B. Tech Computer Science and Engineering

Sub: Identity and Access Management (2CSE507)

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Semester - 5

Class - A

Batch – 52

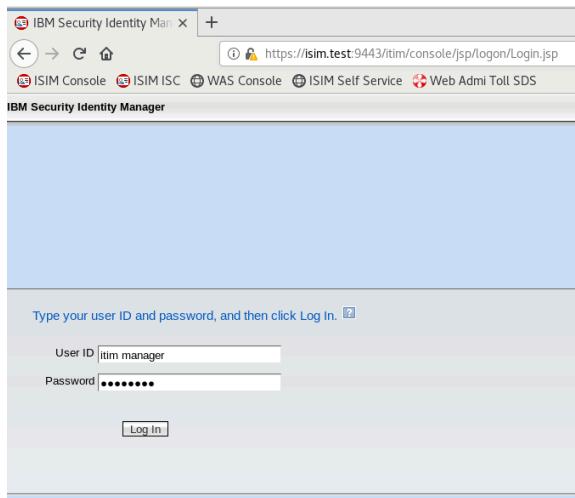
PRACTICAL NO:- 8

Aim : Organization management exercises

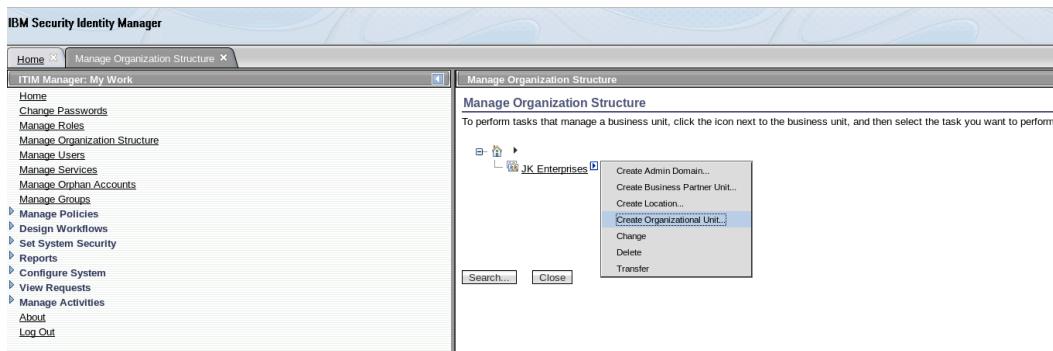
Exercise 1 : Creating the organization tree

Adding the organizational units:

- Log in to the IBM Security Identity Manager Administrative Console as the system administrator with the user ID itim manager using password P@ssw0rd.



- On the Home tab, you go to Manage Organization Structure.
- Click the plus (+) sign to the left of the house icon to expand the selection. Click the small triangle to the right of the organization JK Enterprises and click Create Organizational Unit.



- Complete the Organizational Unit form with the following information:

The screenshot shows the 'Organizational Unit Details' form. It has a title bar 'Manage Organization Structure > Organizational Unit Details'. Below it is a note: 'Type the name of the organization unit, and optionally, type a brief description and select a supervisor. Then, click OK.' There are three input fields: 'Organizational unit name' with 'Sales' typed in, 'Description' with 'Sales Organizational Unit', and 'Supervisor' which is currently empty. At the bottom are 'OK' and 'Cancel' buttons.

Manage Organization Structure

Manage Organization Structure > Select People

To add a person, select the person that you want to add.

Attribute	Operator	Value
Full name	Contains	System Administrator

Users

To add a person, select the person, and then click OK.

1 results found for: **System Administrator**

Select	Name	E-mail Ad...	Last Name	Business ...	Status
<input checked="" type="radio"/>	System Administrator		Administrator	JK Enterprises	Active

Page 1 of 1 | Total: 1 | Displayed: 1 | Selected: 1

OK **Cancel**

Manage Organization Structure

Manage Organization Structure > Organizational Unit Details

Type the name of the organization unit, and optionally, type a brief description and select a supervisor. Then, click OK.

+Organizational unit name
Sales

Description
Sales Organizational Unit

Supervisor
System Administrator

Search... **Clear**

OK **Cancel**

- Click OK. You might have to refresh the Manage Organization Structure tab to see your new entry. changes and activities in the organization through workflows.
- Repeat above 3 steps to create the Finance and Development organizational units.

Manage Organization Structure

You successfully created a new **Organizational Unit** called **Development**

Close Message

Manage Organization Structure

To perform tasks that manage a business unit, click the icon next to the business unit, and then select the task you want to perform.

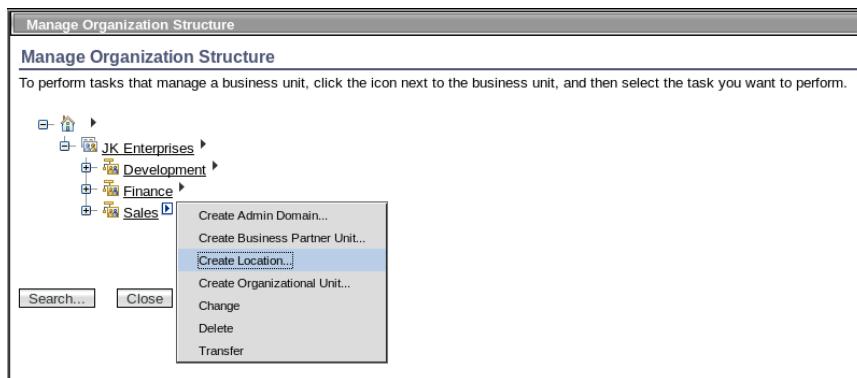
- JK Enterprises
- Development
- Finance
- Sales

Search... **Close**

Adding the locations units

The sales organization for JKE is divided into four regions: WW, Americas, EMEA, and AP. The administration of users and resources is also divided into the same four regions. Therefore, a logical design choice is to create locations off the Sales organization tree branch to contain the users in these regions

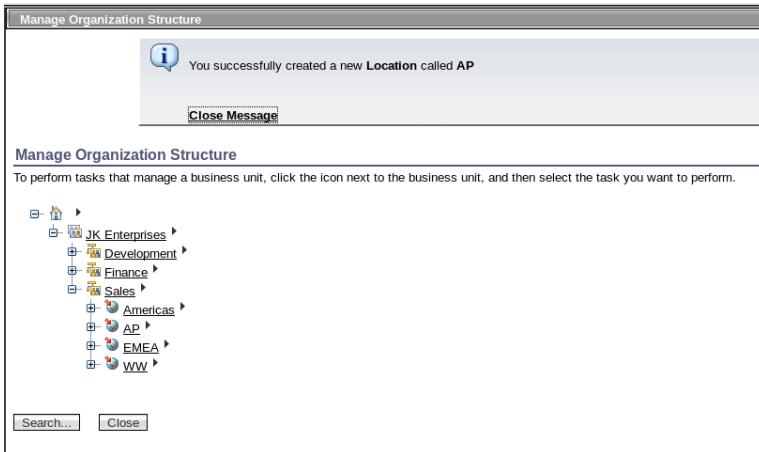
- Click the triangle to the right of JK Enterprises > Sales and click Create Location.



- You complete the Location Details form with the following information.

The screenshot shows the 'Manage Organization Structure > Location Details' dialog. It contains fields for 'Location name' (with 'WW' entered), 'Description' (with 'Worldwide Sales'), and 'Supervisor' (set to 'System Administrator'). Below these are 'Search...' and 'Clear' buttons. At the bottom are 'OK' and 'Cancel' buttons.

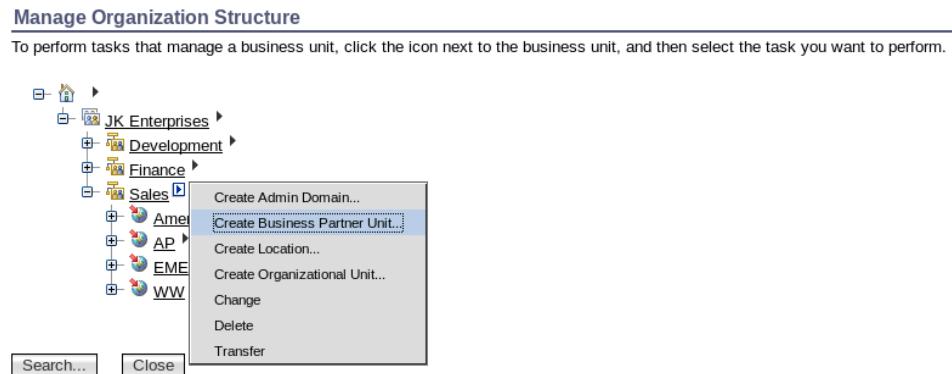
- Click OK.
- You repeat steps 1 through 3 for the remaining locations:
 - Americas
 - EMEA
 - AP



Adding a business partner unit

JKE outsourced its support operations to a company called TechSupport. Employees of TechSupport require access to JKE resources. Therefore, you create a business partner organization off the JK Enterprises branch.

- Click the arrow to the right of JK Enterprises and click Create Business Partner Unit.



- Complete the Business Partner Unit form with the following information:

Manage Organization Structure

Manage Organization Structure > Business Partner Unit Details

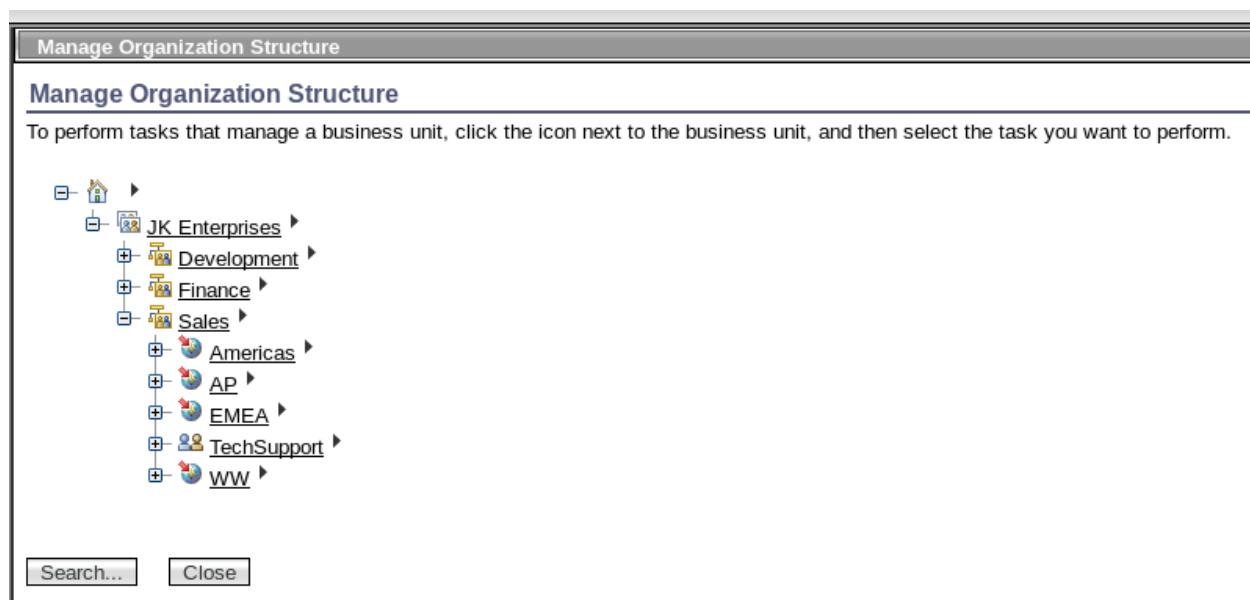
Type the name of the business partner unit, and optionally, type a brief description and select a sponsor. Then, click OK.

*Business partner name
TechSupport

Sponsor
System Administrator

- Click OK.

Your organization tree should match the following graphic:



Exercise 2 : Creating users

In this exercise, you manually add people (users) to IBM Security Identity Manager through the web interface.

- On the Home tab, click Manage Users.

The screenshot shows the 'Manage Users' interface. At the top, there's a search bar with 'Search information' and 'Search by Last Name'. Below the search bar is a section titled 'Users' with a note about performing tasks for users. A checkbox 'Include individual accounts when suspending, restoring, or deleting users' is checked. Below this is a table with columns: Select, Name, E-mail Ad..., Last Name, Business ..., and Status. The table shows 0 total and 0 displayed users. At the bottom are 'Create', 'Delete', 'Suspend', 'Restore', 'Transfer', and 'Refresh' buttons, along with a 'Close' button.

- Click Create to add the following Person entries to the JK Enterprises business unit, select User Type Person and Click Continue:

The screenshot shows the 'Create User' interface. It starts with 'Manage Users > Create User > Select User Type'. It asks to select a business unit and user type. In the 'Business unit' field, 'JK Enterprises' is selected. In the 'User type' dropdown, 'Person' is selected. At the bottom are 'Continue' and 'Cancel' buttons.

Create User

*Personal Information <ul style="list-style-type: none"> Business Information Contact Information Assignment Attributes 	<p>Manage Users > Create User > Personal Information</p> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click Continue.</p> <p>+Last name <input type="text" value="Thomas"/></p> <p>+Full name <input type="text" value="Sue Thomas"/></p> <p>+Preferred user ID <input type="text" value="sthomas"/></p> <p>First name <input type="text" value="Sue"/></p> <p>Initials <input type="text"/></p> <p>Home address <input type="text"/></p> <p>Shared secret <input type="text"/></p> <p>Organizational roles <input type="text"/> [Add] <input type="button" value="Search..."/> <input]<="" p="" type="button" value="Delete"/> </p>
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

*Personal Information <ul style="list-style-type: none"> Business Information Contact Information Assignment Attributes 	<p>Manage Users > Create User > Business Information</p> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click Continue.</p> <p>Office number <input type="text"/></p> <p>Employee number <input type="text"/></p> <p>Title <input type="text" value="Manager"/></p> <p>Manager <input type="text"/> [Search...] [Clear]</p> <p>Postal address <input type="text"/></p> <p>Administrative assistant <input type="text"/> [Search...] [Clear]</p>
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

*Personal Information <ul style="list-style-type: none"> Business Information Contact Information Assignment Attributes 	<p>Manage Users > Create User > Contact Information</p> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click Continue.</p> <p>E-mail address <input type="text" value="sthomas@jke.test"/></p> <p>Telephone number <input type="text"/></p> <p>Mobile telephone number <input type="text"/></p> <p>Pager <input type="text"/></p> <p>Home telephone number <input type="text"/></p> <p>Aliases <input type="text"/> [Add] <input type="button" value="Search..."/> <input]<="" p="" type="button" value="Delete"/> </p>
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

Manage Users > Create User > Create a New Password

To specify a password for the account, select whether you want to have the system conform to the password strength rules for the account.

Generate a password for me
 Allow me to type a password

Password

Confirm Password

[View password strength rules](#)

Schedule

Choose a time and date to schedule this operation.

Immediate
 Effective date

Date 10/27/2025	Time 3:45 PM
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Submit **Cancel**

Manage Users

Manage Users > Select a User

To locate a user that you want to manage, type information about the user in the field, select a filter, and then click Search. The users search will search the system based on the beginning letters of the item you are searching for. To search for a textual pattern in the middle example, typing "b*" will find "abc".)

Search information	Search by	Last Name	Search	Advanced...
--------------------	-----------	-----------	--------	-------------

Users

To perform a particular task for a user, click the icon next to the name of the user, and then select the task that you want to perform.

5 results found for: *

Include individual accounts when suspending, restoring, or deleting users

<input type="checkbox"/> Create	<input type="checkbox"/> Change	<input type="checkbox"/> Delete	<input type="checkbox"/> Suspend	<input type="checkbox"/> Restore	<input type="checkbox"/> Transfer	<input type="checkbox"/> Refresh
Select	Name	E-mail Address	Last Name	Business Unit	Status	
<input type="checkbox"/>	Bob Smith	bsmith@jke.test	Smith	JK Enterprises	Active	
<input type="checkbox"/>	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active	
<input type="checkbox"/>	John Davis	jdavis@jke.test	Davis	JK Enterprises	Active	
<input type="checkbox"/>	Sue Thomas	sthomas@jk...	Thomas	JK Enterprises	Active	
<input type="checkbox"/>	System Administrator		Administrator	JK Enterprises	Active	

Page 1 of 1 | Total: 5 Displayed: 5 Selected: 0

Close

- Add Alice Smith as a Person entry to the Finance business unit with the following information:

On the Home tab, click Manage Users.

Click Create to add the following Person entries to the Finance business unit, select User Type Person and Click Continue:

Create User

Manage Users > Create User > Select User Type

Select a business unit and the type of user to create and click Continue. The types of users that you can create are:

Business unit	User type
Finance	Search...

Select Person Business partner person

Page 1 of 1 | Total: 2 Displayed: 2 Selected: 1

Continue **Cancel**

Create User

***Personal Information**

Manage Users > Create User > Personal Information

To create a new user, type information about the user in the fields. When you are finished, click Continue.

<input checked="" type="radio"/> Business Information <input type="radio"/> Contact Information <input type="radio"/> Assignment Attributes	*Last name <input type="text" value="Smith"/> *Full name <input type="text" value="Alice Smith"/> *Preferred user ID <input type="text" value="asmith"/> First name <input type="text" value="Alice"/> Initials <input type="text"/> Home address <input type="text"/> Shared secret <input type="text"/> Organizational roles <input type="text"/> <div style="text-align: right;"> <input type="button" value="Add"/> <input type="button" value="Search..."/> <input type="button" value="Delete"/> </div>
--	--

Continue **Cancel**

Create User

*Personal Information Business Information Contact Information Assignment Attributes	<p>Manage Users > Create User > Contact Information</p> <p>To create a new user, type information about the user in the fields. When you are finished, click Continue.</p> <p>E-mail address asmith@jke.test</p> <p>Telephone number</p> <p>Mobile telephone number</p> <p>Pager</p> <p>Home telephone number</p> <p>Aliases</p> <p>Add</p> <p>Delete</p>
--	--

Continue **Cancel**

Create User

Manage Users > Create User > Create a New Password

To specify a password for the account, select whether you want to have the system conform to the password strength rules for the account.

Generate a password for me
 Allow me to type a password

Password

Confirm Password

View password strength rules

Schedule

Choose a time and date to schedule this operation.

Immediate
 Effective date

Date 10/27/2025	Time 4:00 PM
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Submit **Cancel**

When you are done, return to the Manage Users tab and click Refresh to confirm the users are created correctly.

The screenshot shows a software application window titled "Manage Users". At the top, there is a search bar labeled "Search information" and a dropdown menu "Search by" set to "Last Name" with buttons for "Search" and "Advanced...". Below the search area, a section titled "Users" contains a note: "To perform a particular task for a user, click the icon next to the name of the user, and then select the task that you want to perform." It also states "6 results found for: *". A checked checkbox "Include individual accounts when suspending, restoring, or deleting users" is present. The main content is a grid table with columns: "Select", "Name", "E-mail Ad...", "Last Name", "Business Unit", and "Status". The data in the table is as follows:

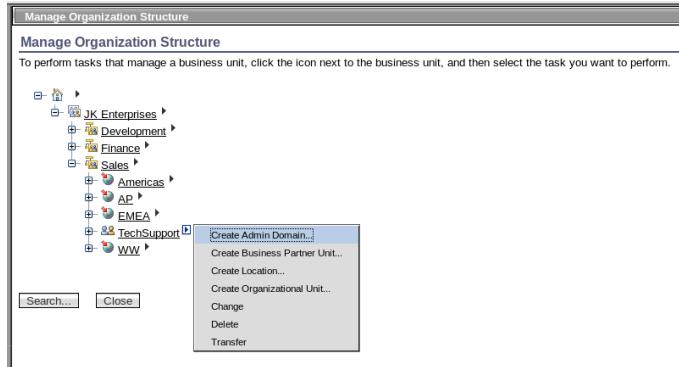
Select	Name	E-mail Ad...	Last Name	Business Unit	Status
<input type="checkbox"/>	Alice Smith	asmith@jke.test	Smith	Finance	Active
<input type="checkbox"/>	Bob Smith	bsmith@jke.test	Smith	JK Enterprises	Active
<input type="checkbox"/>	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active
<input type="checkbox"/>	John Davis	jdavis@jke.test	Davis	JK Enterprises	Active
<input type="checkbox"/>	Sue Thomas	sthomas@jke.test	Thomas	JK Enterprises	Active
<input type="checkbox"/>	System Administrator		Administrator	JK Enterprises	Active

At the bottom of the table, it says "Page 1 of 1" and "Total: 6 Displayed: 6 Selected: 0". A "Close" button is located at the bottom left of the grid.

Exercise 3 : Creating an Admin Domain

JK Enterprises wants to assign separate domain administrators to the TechSupport business partner organization. To do this, you create an Admin Domain below the TechSupport branch.

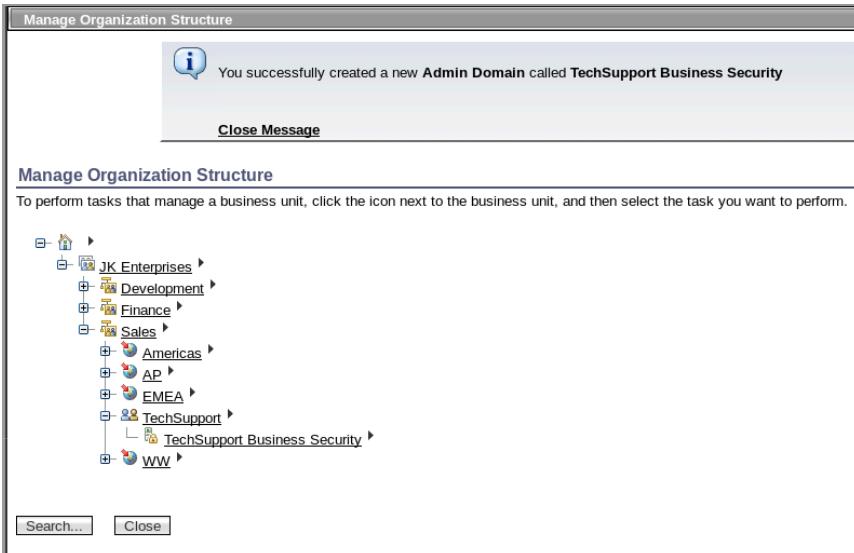
- Return to the Manage Organization Structure tab.
- Click the arrow to the right of TechSupport and click Create Admin Domain.



- Complete the Admin Domain form with the following information:

The screenshot shows the 'Admin Domain Details' dialog box. It contains fields for Admin domain name (set to 'TechSupport Business Security'), Description (set to 'Allows TechSupport to manage their Linux services'), and Administrator (set to 'John Davis'). There are 'Search...' and 'Delete' buttons next to the administrator list. At the bottom are 'OK' and 'Cancel' buttons.

- Click OK. Your organization tree should have the following hierarchical structure:



Exercise 4 : Adding a system administrator

A special administrator group is predefined in IBM Security Identity Manager. Members of the System Administrator group have access to all items in the IBM Security Identity Manager Server. The System Administrator group allows users to act as system administrators for their organization. Thus far in this course, you have used the itim manager account to complete administrative tasks.

In a production environment, you create and add extra administrative user IDs to the System Administrator group. Please create a ID and remember it as we are going to use this ID in exercises.

- 1. On the Home tab, navigate to Manage Users.
- 2. Create a new Person with the following information:

Field	Value
○ Business unit	JK Enterprises
○ Last Name	<Use your own last name>
○ Full name	<Use your own full name>
○ Preferred user ID	<First letter of first name plus last name>
○ First name	<Use your own first name>
○ Organizational roles	ITIM Administrators
○ E-mail address	<Your userid>@jke.test
○ Password	P@ssw0rd

The screenshot shows the 'Create User' interface. At the top, it says 'Create User' and 'Manage Users > Create User > Select User Type'. Below that, a message says 'Select a business unit and the type of user to create and click Continue. The types of users t...' followed by a redacted section. There is a 'Business unit' field containing 'JK Enterprises' with a 'Search...' button. Below is a 'User type' dropdown menu with 'Person' selected. At the bottom, there are 'Continue' and 'Cancel' buttons.

Create User

*Personal Information	
Business Information Contact Information Assignment Attributes	
*Last name <input type="text" value="Prajapati"/> *Full name <input type="text" value="Nisarg Prajapati"/> *Preferred user ID <input type="text" value="NPrajapati@"/>	
First name <input type="text" value="Nisarg"/> Initials <input type="text"/> Home address <input type="text"/> Shared secret <input type="text"/>	
Organizational roles <input type="text"/> <input type="button" value="Add"/> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> ITIM Administrators </div> <input type="button" value="Search..."/> <input type="button" value="Delete"/>	
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

Create User > Select Organizational Roles

To add one or more organizational roles, select the organizational roles that you want to add.

Attribute	Operator	Value
Name	Contains	ITIM Administrators

Roles

To add one or more organizational roles, select them, and then click OK.

1 results found for: ITIM Administrators

Select	Name	Description	Business unit	Role ...
<input checked="" type="checkbox"/>	ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static

Page 1 of 1 | Total: 1 | Displayed: 1 | Selected: 1

Create User

*Personal Information	
Business Information Contact Information Assignment Attributes	
*Last name <input type="text" value="Prajapati"/> *Full name <input type="text" value="Nisarg Prajapati"/> *Preferred user ID <input type="text" value="NPrajapati@ "/>	
First name <input type="text" value="Nisarg"/> Initials <input type="text"/> Home address <input type="text"/> Shared secret <input type="text"/>	
Organizational roles <input type="text"/> <input type="button" value="Add"/> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> ITIM Administrators </div> <input type="button" value="Search..."/> <input type="button" value="Delete"/>	
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

<input checked="" type="radio"/> Personal Information <input type="radio"/> Business Information Contact Information <input type="radio"/> Assignment Attributes	Manage Users > Create User > Contact Information To create a new user, type information about the user in the fields. When you are do E-mail address <input type="text" value="NPrajapati@jke.test"/> Telephone number <input type="text"/> Mobile telephone number <input type="text"/> Pager <input type="text"/> Home telephone number <input type="text"/> Aliases <input type="text"/> <input type="button" value="Add"/> <input type="text"/> <input type="button" value="Delete"/>
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User

Manage Users > Create User > Create a New Password

To specify a password for the account, select whether you want to have the system strength rules for the account.

Generate a password for me
 Allow me to type a password

Password

Confirm Password

[View password strength rules](#)

Schedule

Choose a time and date to schedule this operation.

Immediate
 Effective date

Date 10/27/2025	Time 5:15 PM
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- Submit the new user.

<input type="checkbox"/>	<input checked="" type="checkbox"/> Select	Name	E-mail Ad...	Last Name	Business ...	Status
<input type="checkbox"/>	<input type="checkbox"/>	Alice Smith	asmith@jke.test	Smith	Finance	Active
<input type="checkbox"/>	<input type="checkbox"/>	Bob Smith	bsmith@jke.test	Smith	JK Enterprises	Active
<input type="checkbox"/>	<input type="checkbox"/>	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active
<input type="checkbox"/>	<input type="checkbox"/>	John Davis	jdavis@jke.test	Davis	JK Enterprises	Active
<input type="checkbox"/>	<input type="checkbox"/>	Nisarg Prajapati	NPrajapati@j... ...	Prajapati	JK Enterprises	Active
<input type="checkbox"/>	<input type="checkbox"/>	Sue Thomas	sthomas@jk... ...	Thomas	JK Enterprises	Active
<input type="checkbox"/>	<input type="checkbox"/>	System Administrator	Administrator		JK Enterprises	Active

Page 1 of 1 | Total: 7 Displayed: 7 Selected: 0

- Now you add the new user to the System Administrator group for the ISIM system:

On the Home tab, you go to Manage Groups. Search for ITIM Service, select it, and click Continue.

Manage Groups > Select a Service

To locate the service that contains the groups you want to manage, type information about the service in the field, select a default, clicking Search will search the system based on the beginning letters of the item you are searching for. To search example, typing "b" will find "abc".

Search by	Service	Service type
Search information	<input checked="" type="radio"/> Service ITIM Service	All
	<input type="radio"/> Business unit	

Services

Select the service that contains the groups you want to manage and click OK.

1 results found for: **ITIM Service**

Select	Service Name	Description	Service T...	Business ...
<input checked="" type="radio"/>	ITIM Service		ITIM	JK Enterprises

Page 1 of 1 | Total: 1 Displayed: 1 Selected: 1

Continue **Close**

- Click Refresh to update and show the list of groups on the service. Click the arrow to the right of the System Administrator group and click Add Members.

Manage Groups > Select Group

To locate a group on **ITIM Service** service, type information about the group in the field, and then click Search. The on the beginning letters of the item you are searching for. To search for a textual pattern in the middle of an item, us

Search by	<input checked="" type="radio"/> Group name or description	<input type="radio"/> Business unit	Search
-----------	--	-------------------------------------	--------

Groups

You can add, change, or delete groups. Select the group in the table, and then click the appropriate button.

5 results found for: *

Create	Change	Delete	Export Access Data	Import Access Data	Refresh
Select	Group Na...	Description	View	Business ...	
<input type="checkbox"/>	Auditor	Default Auditor Group for Organization	Auditor View	JK Enterprises	
<input type="checkbox"/>	Help Desk Assistant	Default Help Desk Assistant Group for Organization	Help Desk View	JK Enterprises	
<input type="checkbox"/>	Manager	Default Manager Group for Organization	Manager View	JK Enterprises	
<input type="checkbox"/>	Service Owner	Default Service Owner Group for Organization	Service Owner View	JK Enterprises	
<input type="checkbox"/>	System Administrator	System Administrator Group	Administrator	JK Enterprises	

Page 1 of 1 | Total: 5 Displayed: 5 Selected: 0

Close

Create Change Delete Export Access Data Import Access Data Refresh				
	Select	Group Na...	Description	View
<input type="checkbox"/>	Auditor	Default Auditor Group for Organization	Auditor View	JK Enterprises
<input type="checkbox"/>	Help Desk Assistant	Default Help Desk Assistant Group for Organization	Help Desk View	JK Enterprises
<input type="checkbox"/>	Manager	Default Manager Group for Organization	Manager View	JK Enterprises
<input type="checkbox"/>	Service Owner	Default Service Owner Group for Organization	Service Owner View	JK Enterprises
<input type="checkbox"/>	System Administrator	System Administrator	Administrator	JK Enterprises
Manage Members... Add Members...		Selected: 0		
Page 1 of 1				

- Search for your new user ID and select it. Click OK to add your ID to this group.

Manage Groups

Manage Groups > Add Members

To add a member to **System Administrator** group, type information about the user in the field, select a filter, a system based on the beginning letters of the item you are searching for. To search for a textual pattern in th

System account information <input type="text" value="NPrajapati"/>	Attribute <input type="radio"/> User name <input checked="" type="radio"/> User ID <input type="button" value="Search"/>						
System Accounts							
1 results found for: NPrajapati							
<table border="1"> <thead> <tr> <th>Select</th> <th>User Name</th> <th>User ID</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>Nisarg Prajapati</td> <td>nprajapati@</td> </tr> </tbody> </table>		Select	User Name	User ID	<input checked="" type="checkbox"/>	Nisarg Prajapati	nprajapati@
Select	User Name	User ID					
<input checked="" type="checkbox"/>	Nisarg Prajapati	nprajapati@					
Page 1 of 1 Total: 1 Displayed: 1 Selected: 1							
<input type="button" value="OK"/> <input type="button" value="Cancel"/>							

- Submit your request.

Manage Groups

Manage Groups > Success

You successfully submitted a request to add the following users to group **System Administrator**:

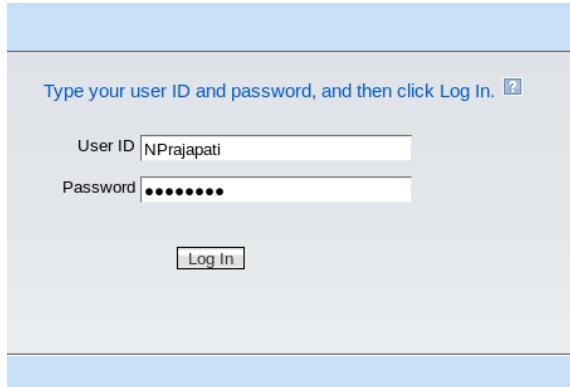
- nprajapati@**

Your request will be processed on **Immediate**.

Other Tasks

[Manage groups on a different service](#)
[Return to the list of groups I was working with](#)
[View my request](#)

- Log out (Left Pane on Home Tab) of the Administrative Console.
- Log in to the IBM Security Identity Manager Administrative Console with Your_ID.



- Verify that you have access to all operations.

Welcome
Select your tasks from the table below

Common Tasks

Manage Users	Create, delete and manage users in the system.
Change Passwords	Change passwords for a selected user.
Manage Services	Create, delete and manage services for account provisioning.
Run User and Accounts Report	Run various user and accounts reports.
Run Custom Report	Run custom reports.
Run Services Report	Run various reports for selected service or services.
Run Audit and Security Report	Run audit and security related reports.
Run Requests Report	Run various user requests reports.
View Pending Requests by Service	View pending requests on selected service or services.
View All Requests	View requests submitted to the system, pending or completed requests.

Exercise 5 : Enabling automatic group membership

In the last exercise, you added your ID to the System Administrator group. To simplify group management, IBM Security Identity Manager has a feature that automatically populates the Manager and Service Owner groups. You learn more about IBM Security Identity Manager groups in a later chapter. To enable automatic group membership:

- Log in to the IBM Security Identity Manager Administrative Console with Your_ID.
- On the Home tab, navigate to Set System Security > Set Security Properties.



- In the Group Settings section, enable Automatically populate identity manager groups.

Set Security Properties

Set System Security > Set Security Properties

Specify system settings in the sections below. If your deployment uses an authentication repository scenario, the values in that section are read only.

Password Settings

Enable password editing
 Hide generated passwords for others
 Enable password synchronization
 Set password on user during user creation
***Password retrieval expiration period in hours**

Identity Manager Login Account Settings

***Identity account password expiration period in days**

***Maximum number of incorrect login attempts**

Group Settings

Automatically populate identity manager groups

- Click OK. Click Close.

Set Security Properties

Set System Security > Set Security Properties > Success

You successfully updated the system configuration. The following updates were made to the system properties:

- Automatically populate identity manager groups is now enabled

[Close]

Exercise 6 : Navigating LDAP

Using the ldapsearch command

The ldapsearch command uses the following basic syntax:

```
idsldapsearch -b "basedn" "filter" attribute
```

The basedn defines where in the organization tree to begin the search. For example, use “dc=com” to search the entire organization, or “ou=Sales,dc=com” to search from the Sales organizational unit branch of the tree. The filter narrows the search to entries matching the filter. To find all entries of the object class type of inetOrgPerson, use the filter “objectclass=inetOrgPerson”. The attribute defines which attributes you want returned. If you want the search to return a user’s email address, use mail for the attribute in the command. If you do not specify any attributes, the search returns all attributes for the entries found.

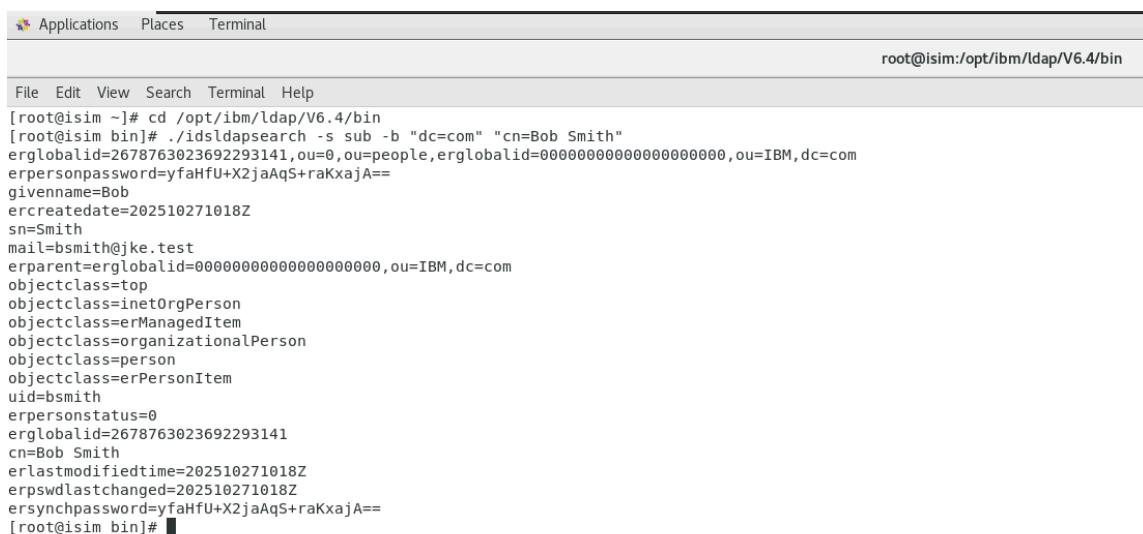
- Open a terminal window.
- Change directory to /opt/ibm/ldap/V6.4/bin.

```
cd /opt/ibm/ldap/V6.4/bin
```

- To find all the attributes for Bob Smith, type the following command:

```
./idsldapsearch -s sub -b "dc=com" "cn=Bob Smith"
```

The result should be Bob’s entry showing all his assigned attributes.

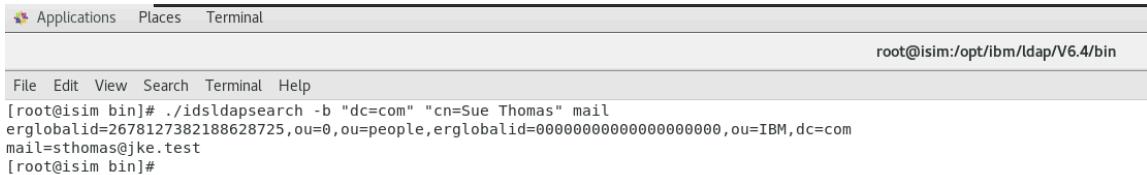


```
root@isim ~]# cd /opt/ibm/ldap/V6.4/bin
[root@isim bin]# ./idsldapsearch -s sub -b "dc=com" "cn=Bob Smith"
erglobalid=2678763023692293141,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfu+X2jaAqS+raKxajaA==
givenname=Bob
ercreatedate=202510271018Z
sn=Smith
mail=bsmith@jke.test
erparent=erglobalid=00000000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=inetOrgPerson
objectclass=erManagedItem
objectclass=organizationalPerson
objectclass=person
objectclass=erPersonItem
uid=bsmith
erpersonstatus=0
erglobalid=2678763023692293141
cn=Bob Smith
erlastmodifiedtime=202510271018Z
erpswdlastchanged=202510271018Z
ersyncbpassword=yfaHfu+X2jaAqS+raKxajaA==
[root@isim bin]#
```

- To find the email address for Sue Thomas, type the following command:

```
./idsldapsearch -b "dc=com" "cn=Sue Thomas" mail
```

The result should be Sue's entry showing just her email address.

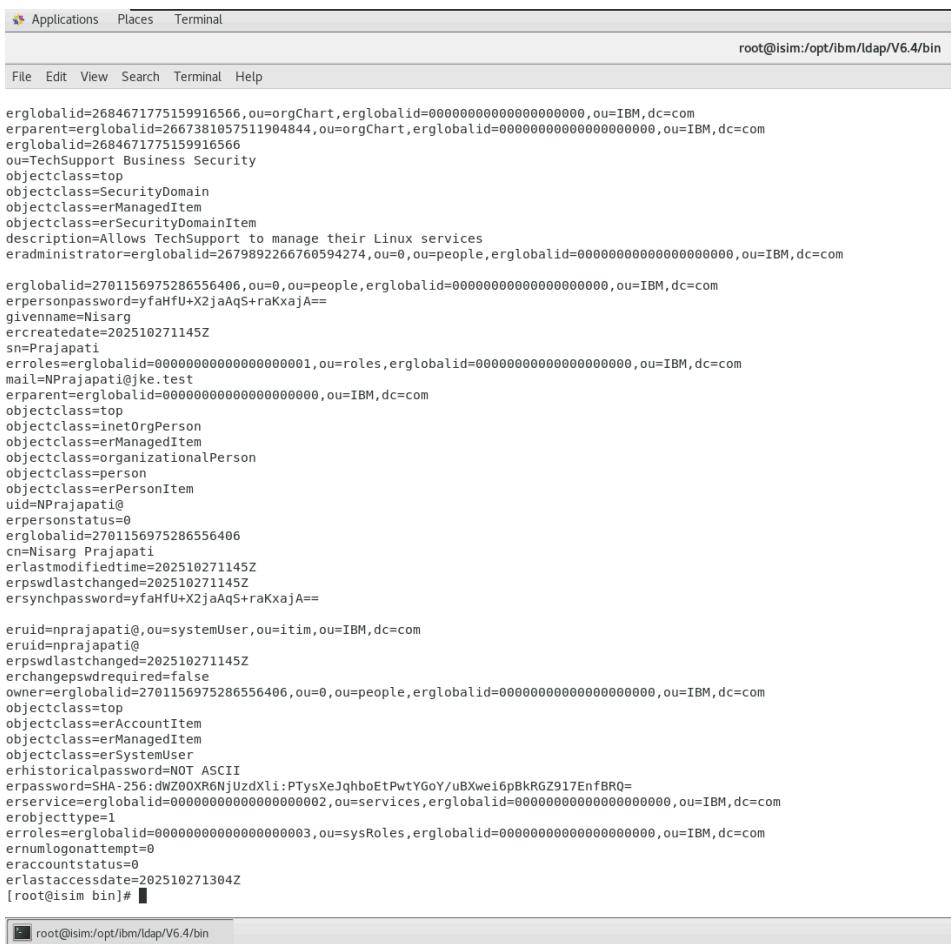


```
root@isim:/opt/ibm/ldap/V6.4/bin
[File Edit View Search Terminal Help]
[root@isim bin]# ./idsldapsearch -b "dc=com" "cn=Sue Thomas" mail
erglobalid=2678127382188628725,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
mail=sthomas@jke.test
[root@isim bin]#
```

- To find all the entries that are the children of the JKE organization, you type the following command:

```
./idsldapsearch -b "dc=com" "objectclass=*"
```

The result is a long list of entries.



```
root@isim:/opt/ibm/ldap/V6.4/bin
[File Edit View Search Terminal Help]
erglobalid=2684671775159916566,ou=orgChart,erglobalid=00000000000000000000,ou=IBM,dc=com
erparent=erglobalid=2667381057511904844,ou=orgChart,erglobalid=00000000000000000000,ou=IBM,dc=com
erglobalid=2684671775159916566
ou=TechSupport Business Security
objectclass=top
objectclass=SecurityDomain
objectclass=erManagedItem
objectclass=erSecurityDomainItem
descriptionAllows TechSupport to manage their Linux services
eradministrator=erglobalid=2679892266760594274,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
erglobalid=2701156975286556406,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfu+X2jaAqS+raKxajA==
givenname=Nisarg
ercreatedate=202510271145Z
sn=Prajapati
erroles=erglobalid=00000000000000000001,ou=roles,erglobalid=00000000000000000000,ou=IBM,dc=com
mail=NPrajapati@jke.test
erparent=erglobalid=00000000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=inetOrgPerson
objectclass=erManagedItem
objectclass=organizationalPerson
objectclass=person
objectclass=erPersonItem
uid=NPrajapati
erpersonstatus=0
erglobalid=2701156975286556406
cn=Nisarg Prajapati
erlastmodifiedtime=202510271145Z
erpswdlastchanged=202510271145Z
ersynchpassword=yfaHfu+X2jaAqS+raKxajA==

eruid=nprajapati,ou=systemUser,ou=itim,ou=IBM,dc=com
eruid=nprajapati
erpswdlastchanged=202510271145Z
erchangepwdrequired=false
owner=erglobalid=2701156975286556406,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=erAccountItem
objectclass=erManagedItem
objectclass=erSystemUser
erhistoricalpassword=NOT ASCII
erpassword=SHA-256:dwZ00XR6NjUzdXli:PTysXeJqhboEtPwtYGoY/uBXwei6pBkRGZ917EnfBRQ=
erservice=erglobalid=00000000000000000002,ou=services,erglobalid=00000000000000000000,ou=IBM,dc=com
erobjctytype=1
erroles=erglobalid=00000000000000000003,ou=sysRoles,erglobalid=00000000000000000000,ou=IBM,dc=com
ernumlogonattempt=0
eraccountstatus=0
erlastaccessdate=202510271304Z
[root@isim bin]#
```

- To find all the entries who have manager in their title, you type the following command:

```
/idsldapsearch -b "dc=com" "title=*manager*"
```

The result should be Sue Thomas' entry because she is the only manager currently defined.

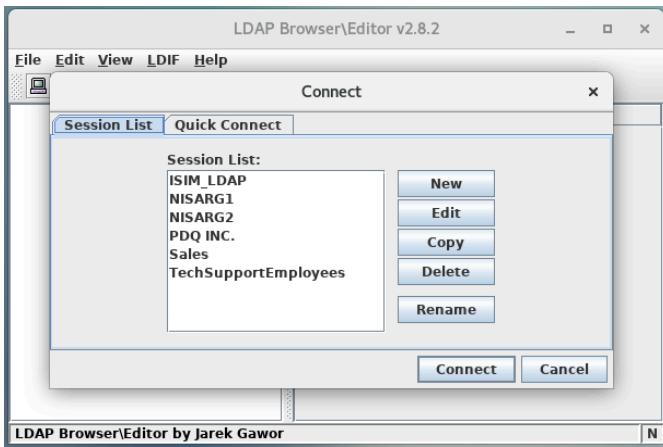
```
root@isim:/opt/ibm/ldap/V6.4/bin
[File Edit View Search Terminal Help]
[root@isim bin]# ./idsldapsearch -b "dc=com" "title=*manager*"
erglobalid=2678127382188628725,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
erparentpassword=yfaHfU+X2jaAqS+raKxajA==
givenname=Sue
ercreatedate=202510271016Z
sn=Thomas
mail=sthomas@jke.test
erparent=erglobalid=00000000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=inetOrgPerson
objectclass=erManagedItem
objectclass=organizationalPerson
objectclass=person
objectclass=erPersonItem
uid=sthomas
erpersonstatus=0
erglobalid=2678127382188628725
title=Manager
cn=Sue Thomas
erlastmodifiedtime=202510271016Z
erpwdlastchanged=202510271016Z
ersynchpassword=yfaHfU+X2jaAqS+raKxajA==
[root@isim bin]#
```

Using the LDAP Browser

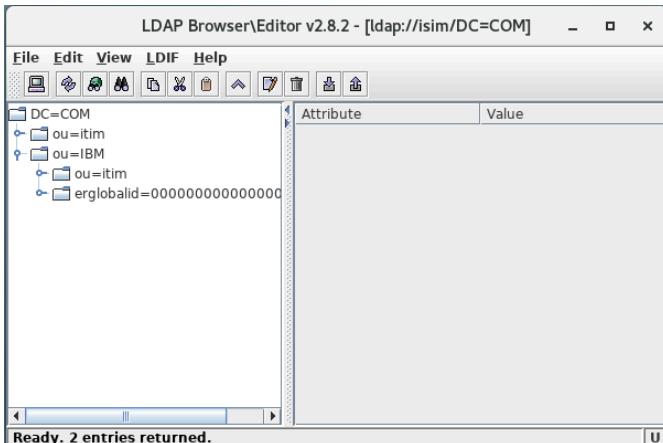
LDAP Browser is a desktop-based LDAP browser that enables you to read and display the tree of an LDAP Server. It is already installed and configured for you. LDAP Browser simplifies viewing entries and relationships in the directory server.

- Double-click the LDAP Browser icon on the desktop. Wait for the application to start.

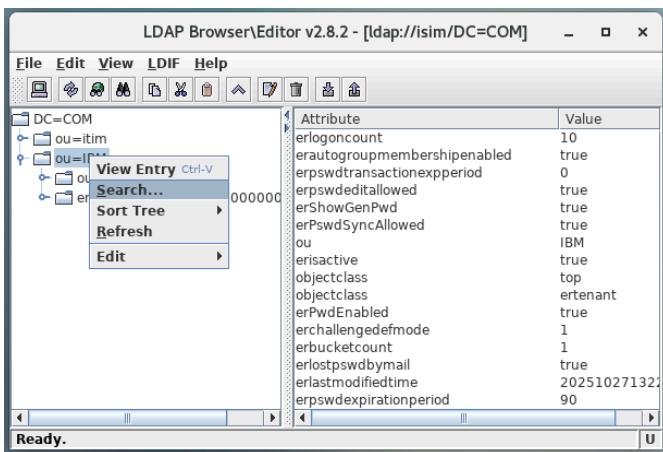
The tool is configured with connections to the IBM Security Identity Manager directory server on isim.test.



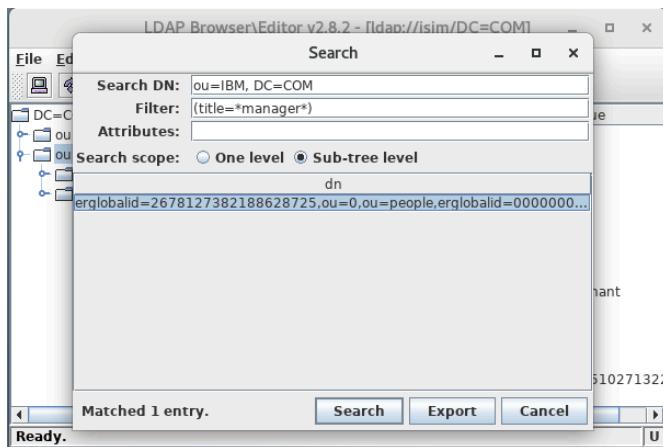
- In the sessions panel of the interface, double-click ISIM_LDAP to open a connection.
- In the LDAP Browser panel, expand the dc=com > ou=IBM



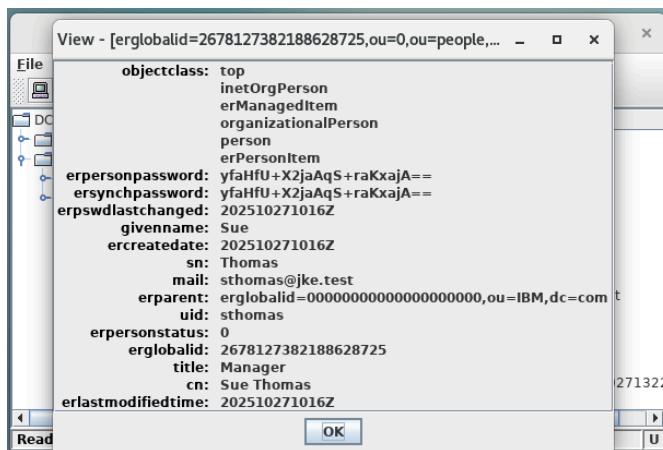
- Right click the ou=IBM entry and select Search



- You set the filter to (title=*manager*). Select the sub-tree level radio button and click Search to start the search.



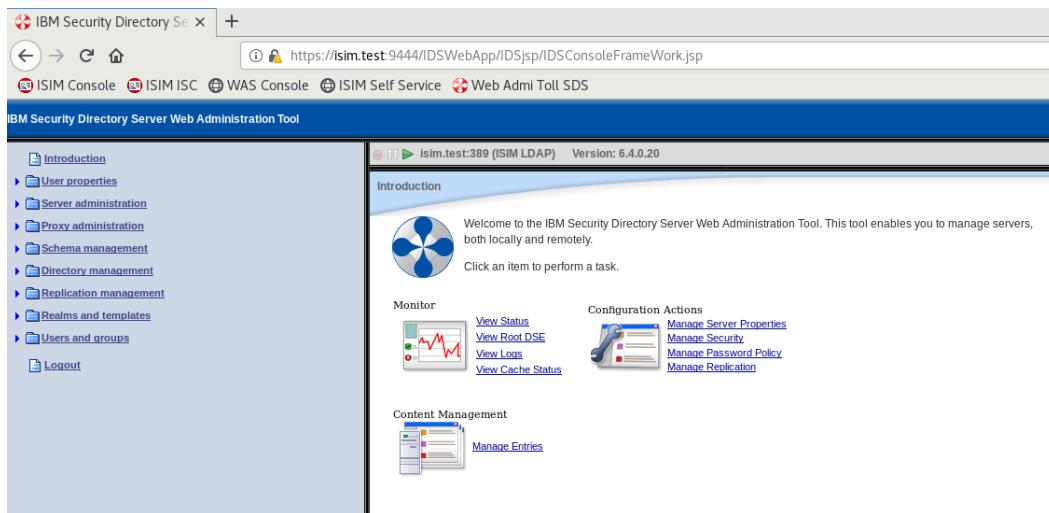
- The search result is the Sue Thomas entry. Right click on the result and click View Entry and check details of Sue Thomas.



Using the IBM Security Directory Server Web Administration Console

The IBM Security Directory Server Web Administration Console is a web-based interface for working with IBM Security Directory Server. You can also use this tool to browse the LDAP DIT(Directory Information Tree) . The console is already installed and configured on your lab system.

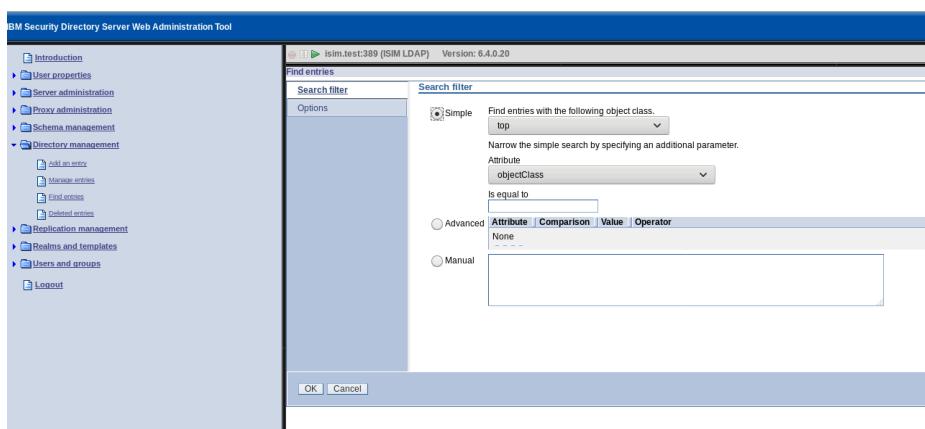
- Open a web browser and open <https://isim.test:9444/IDSWebApp/> Or Click the Web Admin Tool SDS bookmark.
- Log in as user name cn=root with password P@ssw0rd.



Viewing entries

Find the person named Bob Smith to view all his attributes.

- Click Directory Management(Left pane) > Find Entries.



- Select Simple for the filter type.
- Use the following information to fill in the form:
- The completed form looks like :

- Click OK

- Select the entry and click Edit attributes to view all the attributes.

The screenshot shows the 'Edit an entry' interface for an LDAP entry. The entry's distinguished name (DN) is `erglobalid=2678763023692293141,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com`. The 'Object class inheritance' dropdown is set to 'top'. The 'Required attributes' section contains fields for 'cn' (Bob Smith) and 'sn' (Smith), both with 'Multiple values' buttons. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', and 'Cancel'.

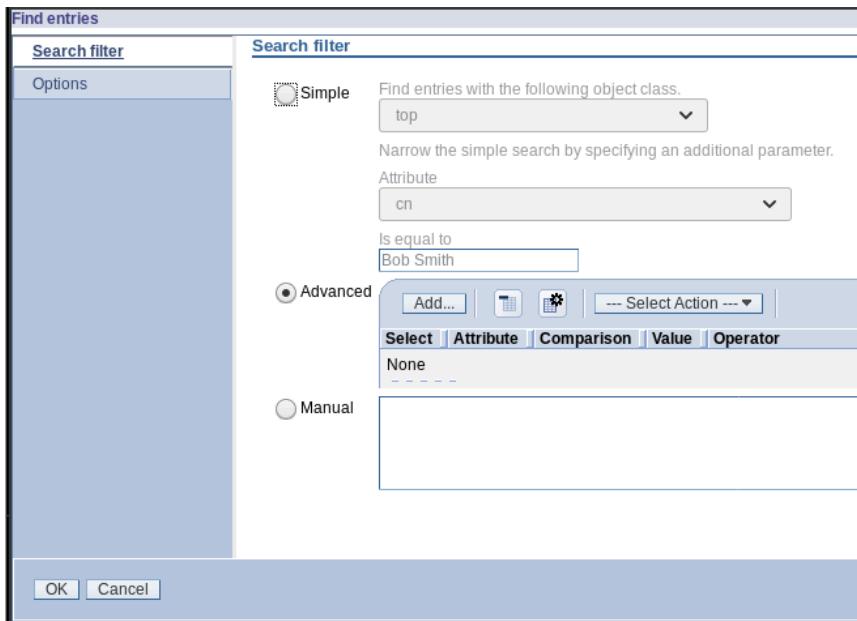
- Click Next → Click Cancel and then click Close to return to the find entries screen.

The screenshot shows the 'Edit an entry' interface for an LDAP entry, specifically focusing on optional attributes. The 'Optional attributes' section lists numerous attributes with their current values and 'Multiple values' buttons: audio (Binary data), businessCategory, carLicense, departmentNumber, description, destinationIndicator, displayName, employeeNumber, employeeType, erAcl (Binary data), erAliases, erAuthorizationOwner, erCreateDate (202510271018Z), erCustomDisplay, erGlobalId (2678763023692293141), erImageURI, erIsDeleted, and erLastCertifiedDate. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', and 'Cancel'.

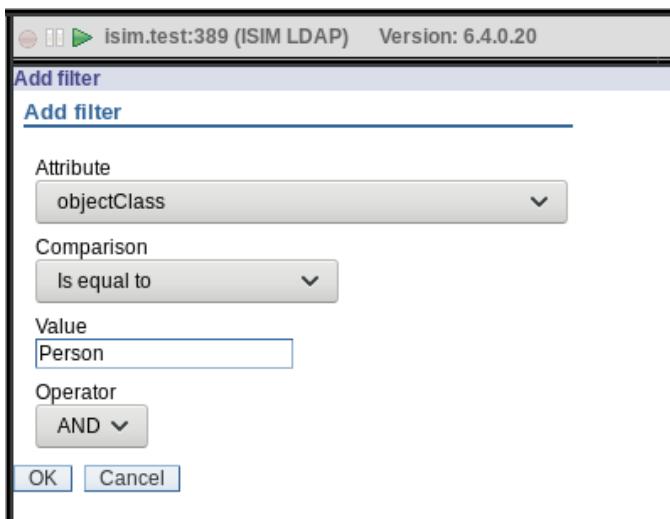
Filtering entries

Find all persons with the title of manager.

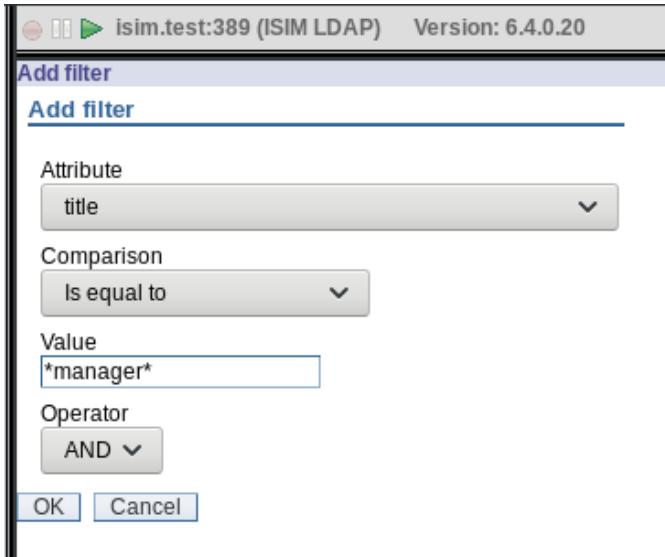
- Select Advanced for the filter type.



- Click Add.
- Use the following information to complete the form:



- Click OK.
- Click Add again.
- Use the following information to complete the form:



- Click OK.

The screenshot shows the 'Find entries' search interface. The search filter is set to 'Simple' with 'cn' as the attribute and 'Bob Smith' as the value. The 'Advanced' tab displays the search query: (&(objectClass=Person)(title=*manager*)). There are 'OK' and 'Cancel' buttons at the bottom.

- Click OK to perform the search.

The screenshot shows the 'Search results' interface. The search base DN is specified as 'Search filter : (&(objectClass=Person)(title=*manager*))'. The results table shows three entries:

Select	RDN	Object class	Created	Last modified	Last modified by
<input type="radio"/>	erglobalid=2678127382188628725.ou=inetOrgPerson	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>	uid=dgdbo.ous=sales.o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
<input type="radio"/>	uid=jwright.ous=sales.o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT

- View the attributes of an entry to verify that it contains a title of manager. You might see more than one result because you are searching the entire tree and not just the ou=IBM subtree.
- Repeat above steps, changing step 6 to search for title not equal to (In Comparison – change Is equal to to Not equal to) *manager*.

isim.test:389 (ISIM LDAP) Version: 6.4.0.20

Edit filter

Attribute: title

Comparison: Is not equal to

Value: *manager*

Operator: AND

OK **Cancel**

User ID: cn=root Logins Help

Search results
Search base DN :
Search filter : (&(objectClass=Person)(!(title=*manager*)))

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
...	...	erglobalid=000000000000000000000007.ou	inetOrgPerson	Apr 22, 2020	Oct 6, 2025	CN=ROOT
...	...	erglobalid=2678763023892293141.ou	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
...	...	erglobalid=2679424690555505858.ou	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
...	...	erglobalid=2679892266760594274.ou	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
...	...	erglobalid=2681830345054884859.ou	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
...	...	erglobalid=2701156975286556406.ou	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
...	...	uid=freeloader.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	May 6, 2020	CN=ROOT
...	...	uid=gbell.ou=sales.o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
...	...	uid=weight.ou=sales.o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
...	...	uid=mbrown.ou=sales.o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
...	...	uid=mmanheim.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	May 6, 2020	CN=ROOT
...	...	uid=sshoemaker.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	May 6, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 12 | Total: 12 Filtered: 12 | Close

Browsing the organization tree

- Click Directory Management > Manage entries.

IBM Security Directory Server Web Administration Tool

User ID: cn=root Logins Help

Manage entries
Current location : ldap://isim.test:389

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
...	...	cn=configuration	ibm-ldapTop	Apr 22, 2020	Apr 22, 2020	CN=ANYBODY
...	...	cn=imnpolicies	container	Apr 22, 2020	Apr 22, 2020	CN=ROOT
...	...	cn=localhd	container	Apr 22, 2020	Apr 22, 2020	CN=ROOT
...	...	dc=com	domain	Apr 22, 2020	Apr 22, 2020	CN=ROOT
...	...	dc=contractors	domain	Apr 23, 2020	Apr 23, 2020	CN=ROOT
...	...	o=ida	organization	Apr 28, 2020	Apr 28, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 6 | Total: 6 Filtered: 6 | Close

- Select dc=com and click Expand.

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="checkbox"/>	<input type="checkbox"/>	ou=ibm	ertenant	Apr 22, 2020	Oct 27, 2025	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=ibm	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 2 | Total: 2 Filtered: 2 | Close |

- Select ou=ibm and click Expand.

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="checkbox"/>	<input type="checkbox"/>	erglobalid=00000000000000000000000000000000	organization	Apr 22, 2020	Apr 28, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=ibm	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 2 | Total: 2 Filtered: 2 | Close |

- Select erglobalid=00000000000000000000000000000000 and click Expand.

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="checkbox"/>	<input type="checkbox"/>	ou=accounts	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=orgChart	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=orphans	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=people	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=policies	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=roles	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=services	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=sysRoles	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>	<input type="checkbox"/>	ou=workflow	organizationalUnit	Apr 22, 2020	Apr 22, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 9 | Total: 9 Filtered: 9 | Close |

- Select ou=roles and click Expand to see the organizational roles.

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="checkbox"/>	<input type="checkbox"/>	erRole	erRole	Apr 22, 2020	Apr 22, 2020	CN=ROOT

Page 1 of 1 | 1 | Go | Rows 1 | Total: 1 Filtered: 1 | Close |

- Select a role and click Edit Attributes to see the details of the role.

The screenshot shows the 'Edit an entry' interface for a role entry. The URL is 'isim.test:389 (ISIM LDAP) Version: 6.4.0.20'. The entry being edited has a relative DN of 'erglobalid=00000000000000000000000000000000,ou=roles,erglobalid=000000000000000000000000,ou=IBM,dc=com'. The 'Object class inheritance' dropdown is set to 'top'. The 'Required attributes' section contains the attribute 'erRoleName' with the value 'ITIM Administrators'. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', and 'Cancel'.

The screenshot shows the 'Edit an entry' interface for a role entry, specifically the 'Optional attributes' section. The URL is 'isim.test:389 (ISIM LDAP) Version: 6.4.0.20'. The entry has a relative DN of 'erglobalid=00000000000000000000000000000000,ou=roles,erglobalid=000000000000000000000000,ou=IBM,dc=com'. The 'Optional attributes' section lists various attributes with their current values and options to edit them. These include 'Predefined system administrator' (value: 'true'), 'erAccessCategory' (empty), 'erAccessDescription' (empty), 'erAccessName' (empty), 'erAccessOption' (empty), 'erAccessTag' (empty), 'erAcl' (empty), 'erAdditionalInformation' (empty), 'erApprovalProcessID' (empty), 'erAuthorizationOwner' (empty), 'erBadge' (empty), 'erGlobalId' (value: '00000000000000000000000000000001'), 'erImageURI' (empty), 'erIsDeleted' (empty), 'erLastModifiedTime' (empty), and 'erLifecycleEnable' (radio buttons for 'Not specified' (selected), 'True', and 'False').