

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:

**Manage Organization Structure**

**Manage Organization Structure > Select People**

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

Attribute: Full name Operator: Contains Value: System Administrator Search

**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

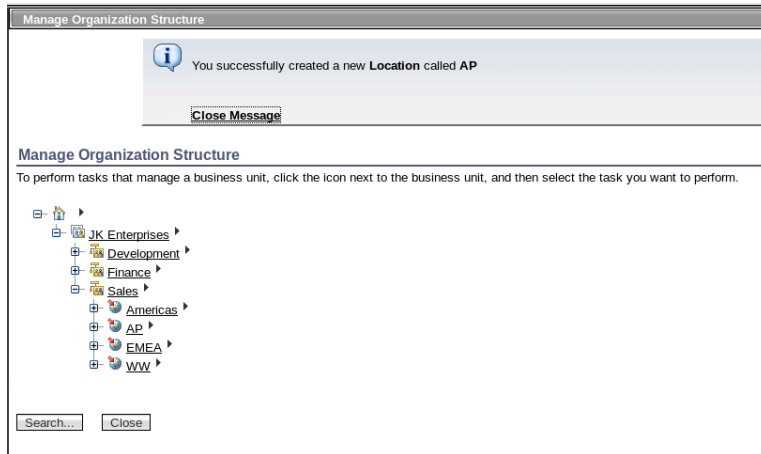
- Click the triangle to the right of JK Enterprises > Sales and click Create Location.



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

 The screenshot shows the 'Manage Organization Structure > Location Details' form. It contains three main input areas: 
 1. 'Location name' with a text field containing 'WW'.
 2. 'Description' with a text area containing 'Worldwide Sales'.
 3. 'Supervisor' with a text field containing 'System Administrator'.
 Below the supervisor field are 'Search...' and 'Clear' buttons. At the bottom of the form are 'OK' and 'Cancel' buttons.

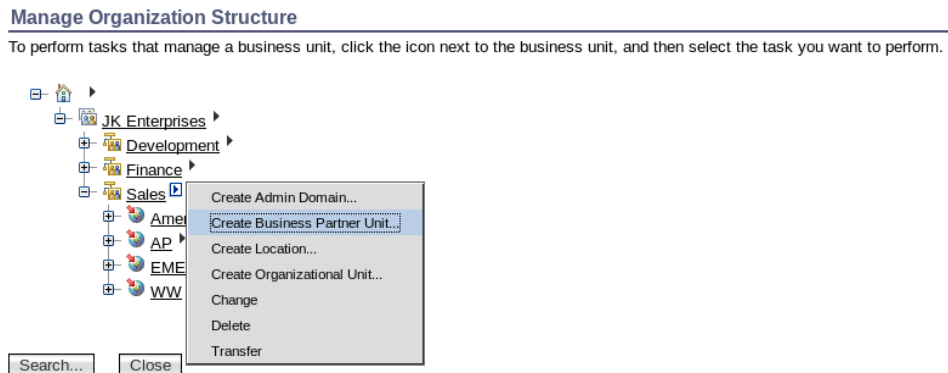
- Click OK.
- You repeat steps 1 through 3 for the remaining locations:
  - Americas
  - EMEA
  - AP



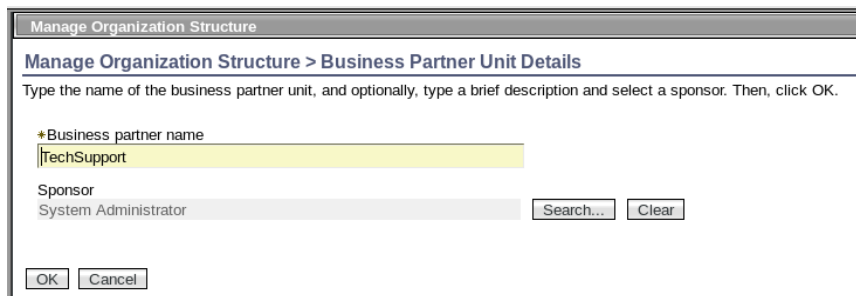
## Adding a business partner unit

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

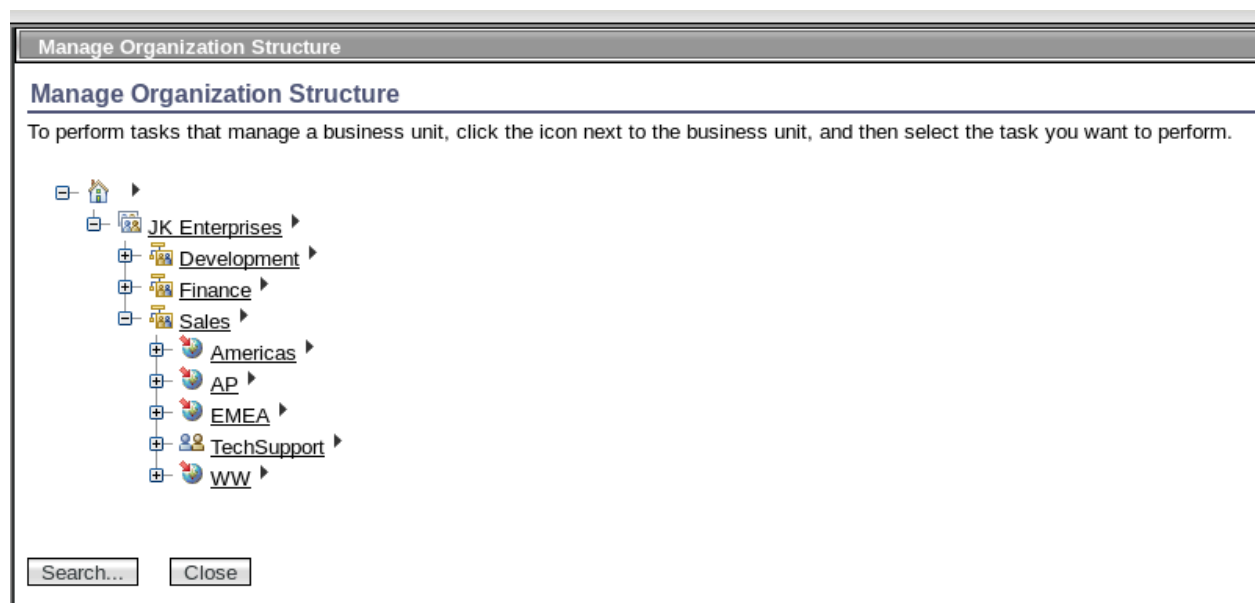
Sponsor  
System Administrator

Search... Clear

OK Cancel

- 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.

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

Create User	
<ul style="list-style-type: none"><li><b>+Personal Information</b></li><li>Business Information</li><li>Contact Information</li><li>Assignment Attributes</li></ul>	<h3>Manage Users &gt; Create User &gt; Personal Information</h3> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click the Add button.</p> <p>*Last name Thomas</p> <p>*Full name Sue Thomas</p> <p>*Preferred user ID sthomas</p> <p>First name Sue</p> <p>Initials </p> <p>Home address </p> <p>Shared secret </p> <p>Organizational roles <div><div></div><div>Add</div></div><div><div></div><div>Search...</div><div>Delete</div></div></p>
<div>Continue Cancel</div>	

Create User	
<ul style="list-style-type: none"><li>Personal Information</li><li><b>Business Information</b></li><li>Contact Information</li><li>Assignment Attributes</li></ul>	<h3>Manage Users &gt; Create User &gt; Business Information</h3> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click the Add button.</p> <p>Office number </p> <p>Employee number </p> <p>Title Manager</p> <p>Manager <div><div></div><div>Search...</div><div>Clear</div></div></p> <p>Postal address </p> <p>Administrative assistant <div><div></div><div>Search...</div><div>Clear</div></div></p>
<div>Continue Cancel</div>	

Create User	
<ul style="list-style-type: none"><li>Personal Information</li><li>Business Information</li><li><b>Contact Information</b></li><li>Assignment Attributes</li></ul>	<h3>Manage Users &gt; Create User &gt; Contact Information</h3> <p>To create a new user, type information about the user in the fields. When you are done specifying information, click the Add button.</p> <p>E-mail address sthomas@jke.test</p> <p>Telephone number </p> <p>Mobile telephone number </p> <p>Pager </p> <p>Home telephone number </p> <p>Aliases <div><div></div><div>Add</div></div><div><div></div><div>Delete</div></div></p>
<div>Continue Cancel</div>	



## Create User

## Manage Users &gt; Create User &gt; 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

Submit

Cancel

## Manage Users

## Manage Users &gt; 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 that 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, for 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

<div> <div>Create</div> <div>Change</div> <div>Delete</div> <div>Suspend</div> <div>Restore</div> <div>Transfer</div> <div>Refresh</div> </div>						
<input type="checkbox"/> Select	Name	E-mail Address	Last Name	Business ...	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 y

Business unit  
Finance  Search...

Select	User type
<input checked="" type="radio"/>	Person
<input type="radio"/>	Business partner person

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

**Create User**

**Manage Users > Create User > Personal Information**

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

<p><b>+Personal Information</b></p> <p><a href="#">Business Information</a></p> <p><a href="#">Contact Information</a></p> <p><a href="#">Assignment Attributes</a></p>	<p>*Last name Smith</p> <p>*Full name Alice Smith</p> <p>*Preferred user ID asmith</p> <p>First name Alice</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"/> <input type="button" value="Add"/></p> <p><input type="text"/> <input type="button" value="Search..."/> <input type="button" value="Delete"/></p>
---	---

Create User	
<ul style="list-style-type: none"><li>★ <a href="#">Personal Information</a></li><li><a href="#">Business Information</a></li><li><b><a href="#">Contact Information</a></b></li><li><a href="#">Assignment Attributes</a></li></ul>	<h3>Manage Users &gt; Create User &gt; Contact Information</h3> <p>To create a new user, type information about the user in the fields. When you are</p> <p>E-mail address <input type="text" value="asmith@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"/> <input type="button" value="Add"/></p> <div><input type="text"/></div> <input type="button" value="Delete"/>
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>	

Create User	
<h3>Manage Users &gt; Create User &gt; Create a New Password</h3> <p>To specify a password for the account, select whether you want to have the system conform to the password strength rules for the account.</p> <p><input type="radio"/> Generate a password for me</p> <p><input checked="" type="radio"/> Allow me to type a password</p> <p>Password <input type="password" value="••••••••"/></p> <p>Confirm Password <input type="password" value="••••••••"/></p> <p>▶ <a href="#">View password strength rules</a></p> <h4>Schedule</h4> <p>Choose a time and date to schedule this operation.</p> <p><input checked="" type="radio"/> Immediate</p> <p><input type="radio"/> Effective date</p> <p>Date <input type="text" value="10/27/2025"/></p> <p>Time <input type="text" value="4:00 PM"/></p> <p><input type="button" value="Submit"/> <input type="button" value="Cancel"/></p>	

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

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 Search will search the system based on the beginning letters of the item you are searching for. To search for a textual pattern in 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 p

6 results found for: \*

☒ Include individual accounts when suspending, restoring, or deleting users

CreateChange>DeleteSuspendRestoreTransferRefresh

Select	Name	E-mail Ad...	Last Name	Business ...	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@jk...	Thomas	JK Enterprises	Active
<input type="checkbox"/>	System Administrator		Administrator	JK Enterprises	Active

Page 1 of 1

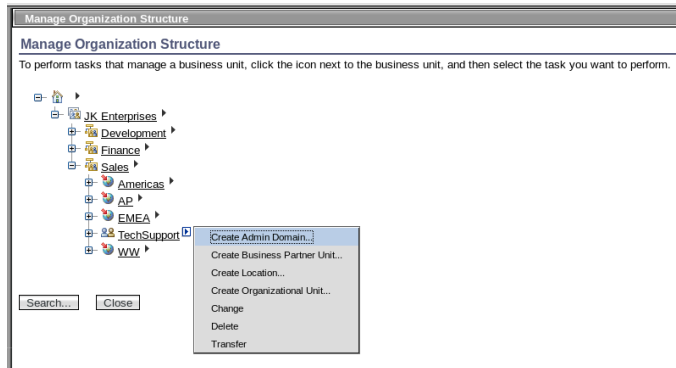
Total: 6 Displayed: 6 Selected: 0

Close

## 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.



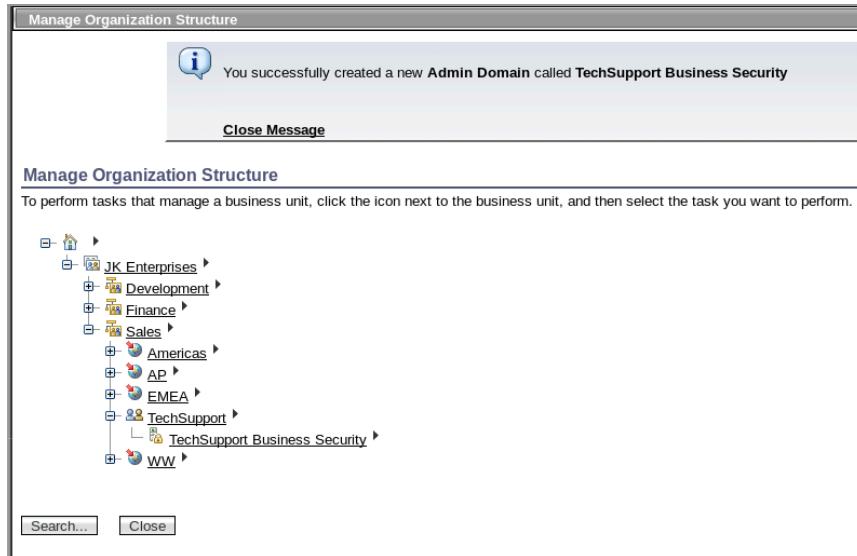
- Complete the Admin Domain form with the following information:

The screenshot shows the 'Manage Organization Structure > Admin Domain Details' form. The title bar reads 'Manage Organization Structure'. Below the title bar, the text says: 'Type the name of the admin domain, and optionally, type a brief description and select an administrator. Then, click OK.' The form contains three main sections:
 

- \*Admin domain name:** A text field containing 'TechSupport Business Security'.
- Description:** A text area containing 'Allows TechSupport to manage their Linux services'.
- Administrator:** A text field containing 'John Davis'.

 To the right of the Administrator field are 'Search...' and 'Delete' buttons. At the bottom of the form 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' window in IBM Security Identity Manager. The breadcrumb path is 'Manage Users > Create User > Select User Type'. Below the path, there is a text prompt: 'Select a business unit and the type of user to create and click Continue. The types of users ti'. The 'Business unit' field is a text box containing 'JK Enterprises' with a search icon to its right. Below this is a table for selecting the user type. The table has two columns: 'Select' and 'User type'. The first row has a radio button selected next to 'Person'. The second row has an unselected radio button next to 'Business partner person'. At the bottom of the table, it says 'Page 1 of 1', 'Total: 2', 'Displayed: 2', and 'Selected: 1'. At the very bottom of the window are 'Continue' and 'Cancel' buttons.

Create User

**Manage Users > Create User > Personal Information**

To create a new user, type information about the user in the fields. When you are done spec

**\*Personal Information**

Business Information

Contact Information

Assignment Attributes

\*Last name  
Prajapati

\*Full name  
Nisarg Prajapati

\*Preferred user ID  
NPrajapati

First name  
Nisarg

Initials

Home address

Shared secret

Organizational roles

Add

Search...

Delete

Continue 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 Search

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

OK Cancel

Create User

**Manage Users > Create User > Personal Information**

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

**\*Personal Information**

Business Information

Contact Information

Assignment Attributes

\*Last name  
Prajapati

\*Full name  
Nisarg Prajapati

\*Preferred user ID  
NPrajapati@

First name  
Nisarg

Initials

Home address

Shared secret

Organizational roles

Add

ITIM Administrators

Search...

Delete

Continue Cancel



**Create User**

**Manage Users > Create User > Contact Information**

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

E-mail address  
 NPrajapati@jke.test  
 Telephone number  
 Mobile telephone number  
 Pager  
 Home telephone number  
 Aliases

**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

- Submit the new user.

<input type="button" value="Create"/> <input type="button" value="Change"/> <input type="button" value="Delete"/> <input type="button" value="Suspend"/> <input type="button" value="Restore"/> <input type="button" value="Transfer"/> <input type="button" value="Refresh"/>						
<input type="checkbox"/> Select	Name	E-mail Ad...	Last Name	Business ...	Status	
<input type="checkbox"/>	<a href="#">Alice Smith</a>	asmith@jke.test	Smith	<a href="#">Finance</a>	Active	
<input type="checkbox"/>	<a href="#">Bob Smith</a>	bsmith@jke.test	Smith	<a href="#">JK Enterprises</a>	Active	
<input type="checkbox"/>	<a href="#">Erica Carr</a>	ecarr@jke.test	Carr	<a href="#">JK Enterprises</a>	Active	
<input type="checkbox"/>	<a href="#">John Davis</a>	jdavis@jke.test	Davis	<a href="#">JK Enterprises</a>	Active	
<input type="checkbox"/>	<a href="#">Nisarg Prajapati</a>	NPrajapati@j...	Prajapati	<a href="#">JK Enterprises</a>	Active	
<input type="checkbox"/>	<a href="#">Sue Thomas</a>	sthenas@jk...	Thomas	<a href="#">JK Enterprises</a>	Active	
<input type="checkbox"/>	<a href="#">System Administrator</a>		Administrator	<a href="#">JK Enterprises</a>	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**

**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 Information:

Search by: ☒ Service ☐ Business unit

Service type:

---

**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

- 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**

**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, use

Search information:

Search by: ☒ Group name or description ☐ Business unit

---

**Groups**

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

5 results found for: \*

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

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

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

- 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, and search the system based on the beginning letters of the item you are searching for. To search for a textual pattern in the

System account information

NPrajapati

Attribute

☐ User name  
☒ User ID

[Search](#)

System Accounts

1 results found for: NPrajapati

<input checked="" type="checkbox"/> <a href="#">Select</a> ^	<a href="#">User Name</a> ^	<a href="#">User ID</a> ^
<input checked="" type="checkbox"/>	Nisarg Prajapati	nprajapati@

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

[OK](#)
[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](#)

[Close](#)

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

Type your user ID and password, and then click Log In. ?

User ID

Password

- Verify that you have access to all operations.

IBM Security Identity Manager

Home x

npnjapati@: My Work

Home

Change Passwords

Manage Roles

Manage Organization Structure

Manage Users

Manage Services

Manage Orphan Accounts

Manage Groups

Manage Policies

Design Workflows

Set System Security

Reports

Configure System

View Requests

Manage Activities

About

Log Out

Welcome

Select your tasks from the table below

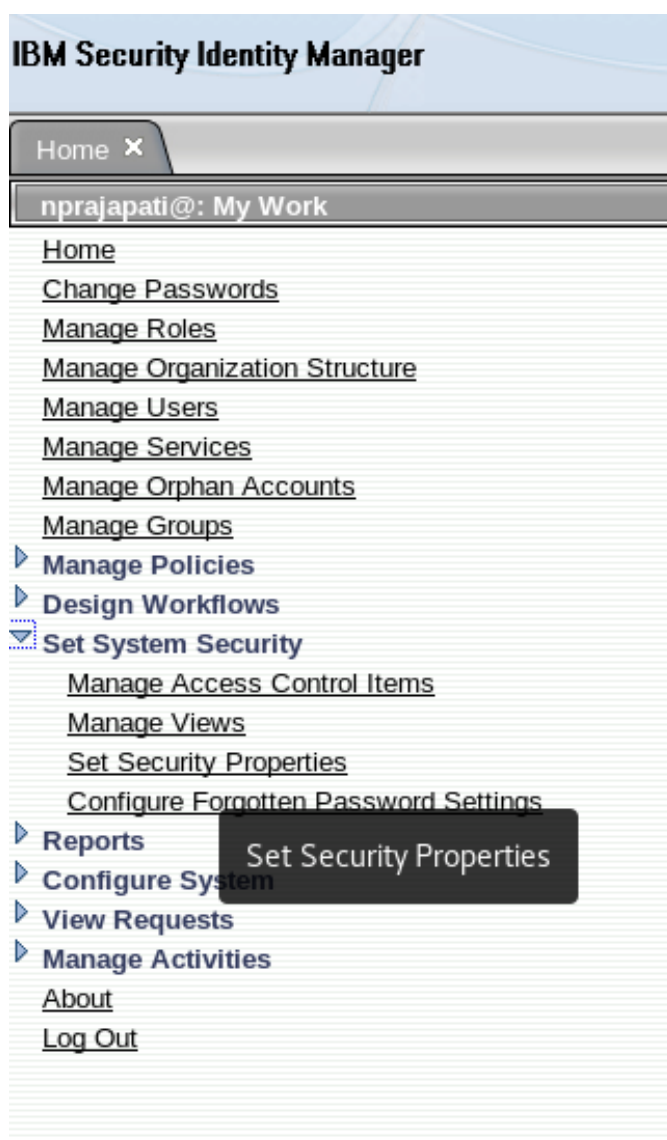
Common Tasks

<a href="#">Manage Users</a>	Create, delete and manage users in the system.
<a href="#">Change Passwords</a>	Change passwords for a selected user.
<a href="#">Manage Services</a>	Create, delete and manage services for account provisioning.
<a href="#">Run User and Accounts Report</a>	Run various user and accounts reports.
<a href="#">Run Custom Report</a>	Run custom reports.
<a href="#">Run Services Report</a>	Run various reports for selected service or services.
<a href="#">Run Audit and Security Report</a>	Run audit and security related reports.
<a href="#">Run Requests Report</a>	Run various user requests reports.
<a href="#">View Pending Requests by Service</a>	View pending requests on selected service or services.
<a href="#">View All Requests</a>	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
0

Identity Manager Login Account Settings

\*Identity account password expiration period in days
90

\*Maximum number of incorrect login attempts
10

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.

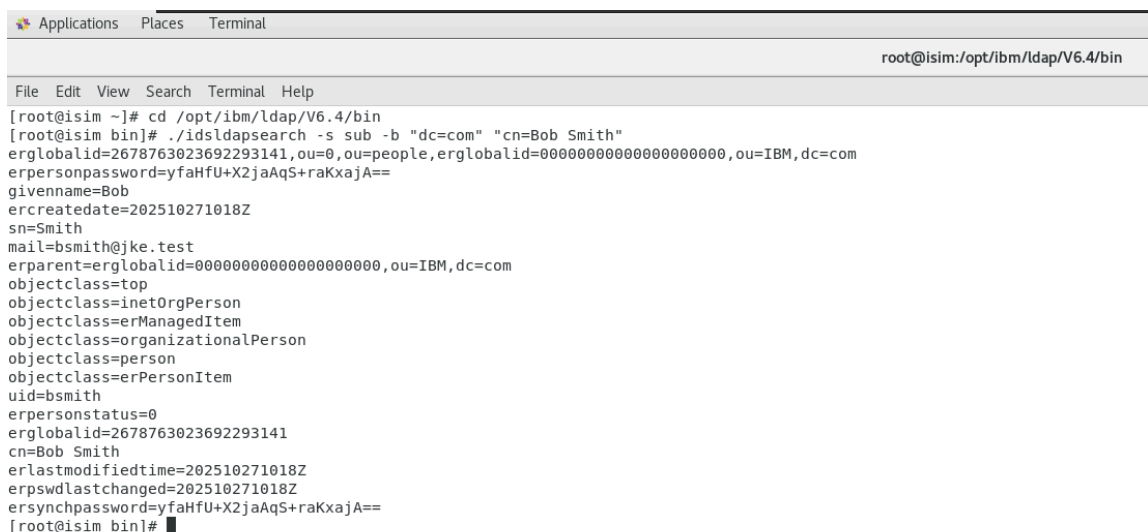
- Open a terminal window.
- Change directory to /opt/ibm/ldap/V6.4/bin.

```
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.



```

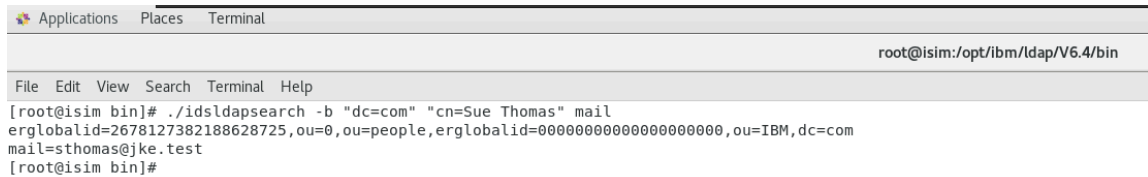
Applications Places Terminal
root@isim:/opt/ibm/ldap/V6.4/bin
File Edit View Search Terminal Help
[root@isim ~]# cd /opt/ibm/ldap/V6.4/bin
[root@isim bin]# ./idsldapsearch -s sub -b "dc=com" "cn=Bob Smith"
erglobalid=2678763023692293141,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfU+X2jaAqS+raKxajA==
givenname=Bob
ercreatedate=202510271018Z
sn=Smith
mail=bsmith@jke.test
erparent=erglobalid=000000000000000000,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
ersynchpassword=yfaHfU+X2jaAqS+raKxajA==
[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.



```

Applications  Places  Terminal
root@isim:/opt/ibm/ldap/V6.4/bin

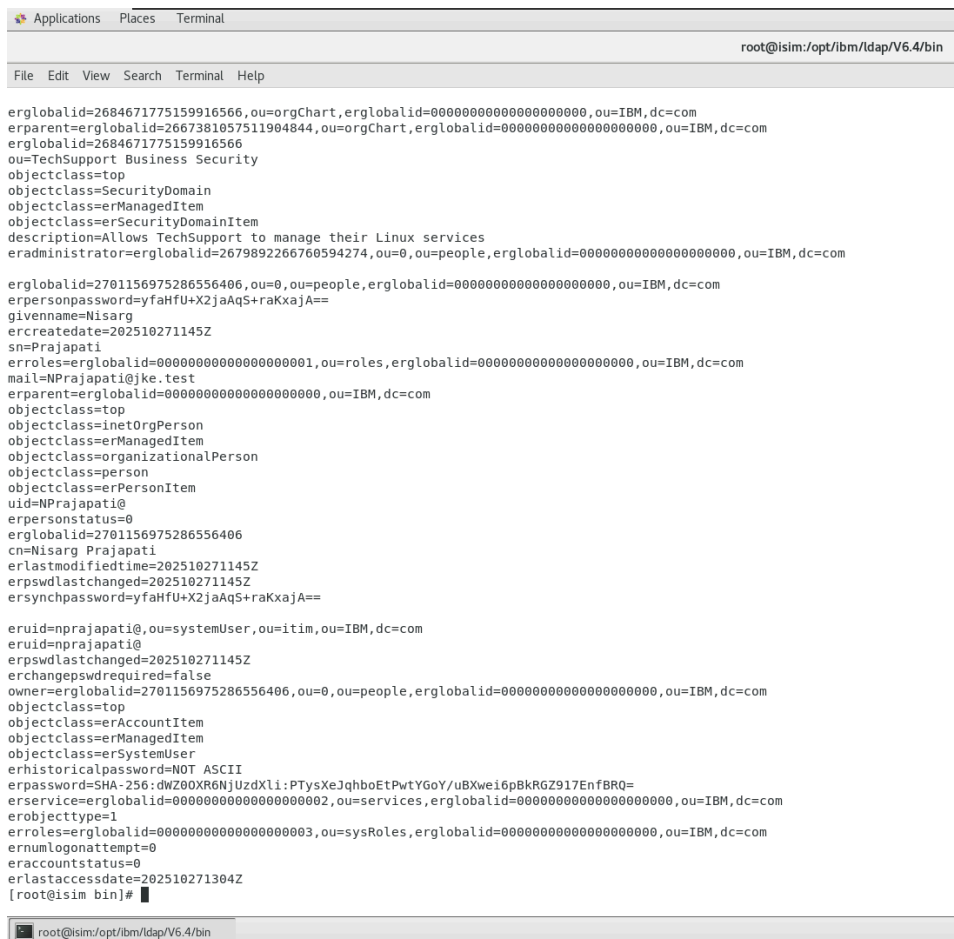
File Edit View Search Terminal Help
[root@isim bin]# ./idsldapsearch -b "dc=com" "cn=Sue Thomas" mail
erglobalid=2678127382188628725,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com
mail=sthomas@jke.test
[root@isim bin]#

```

- 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.



```

Applications  Places  Terminal
root@isim:/opt/ibm/ldap/V6.4/bin

File Edit View Search Terminal Help
erglobalid=2684671775159916566,ou=orgChart,erglobalid=000000000000000000,ou=IBM,dc=com
erparent=erglobalid=2667381057511904844,ou=orgChart,erglobalid=000000000000000000,ou=IBM,dc=com
erglobalid=2684671775159916566
ou=TechSupport Business Security
objectclass=top
objectclass=SecurityDomain
objectclass=erManagedItem
objectclass=erSecurityDomainItem
description=Allows TechSupport to manage their Linux services
eradministrator=erglobalid=2679892266760594274,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com

erglobalid=2701156975286556406,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfU+X2jaAq5+raKxajA==
givenname=Nisarg
ercreatedate=202510271145Z
sn=Prajapati
erroles=erglobalid=0000000000000000001,ou=roles,erglobalid=000000000000000000,ou=IBM,dc=com
mail=NPrajapati@jke.test
erparent=erglobalid=000000000000000000,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
erswdlastchanged=202510271145Z
ersynchpassword=yfaHfU+X2jaAq5+raKxajA==

eruid=nprajapati@,ou=systemUser,ou=itim,ou=IBM,dc=com
eruid=nprajapati@
erpswdlastchanged=202510271145Z
erchangepswdrequired=false
owner=erglobalid=2701156975286556406,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=erAccountItem
objectclass=erManagedItem
objectclass=erSystemUser
erhistoricalpassword=NOT ASCII
erpassword=SHA-256:dW200XR6NjUzdXli:PTysXeJqhboEtPwtYGoY/uBXwei6pBKRgz917EnfBRQ=
erservice=erglobalid=0000000000000000002,ou=services,erglobalid=000000000000000000,ou=IBM,dc=com
erobjecttype=1
erroles=erglobalid=0000000000000000003,ou=sysRoles,erglobalid=000000000000000000,ou=IBM,dc=com
ernumlogonattempt=0
eraccountstatus=0
erlastaccessdate=202510271304Z
[root@isim bin]#
root@isim:/opt/ibm/ldap/V6.4/bin

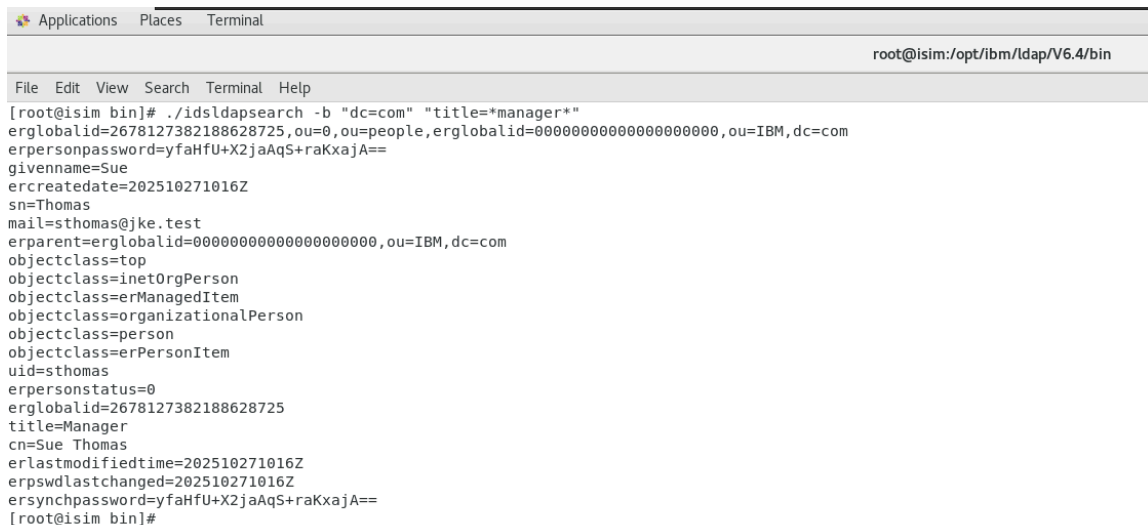
```



- 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.



```

Applications  Places  Terminal
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=000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfU+X2jaAqS+raKxajA==
givenname=Sue
ercreatedate=202510271016Z
sn=Thomas
mail=sthomas@jke.test
erparent=erglobalid=000000000000000000,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
erpswdlastchanged=202510271016Z
ersynchpassword=yfaHfU+X2jaAqS+raKxajA==
[root@isim bin]#

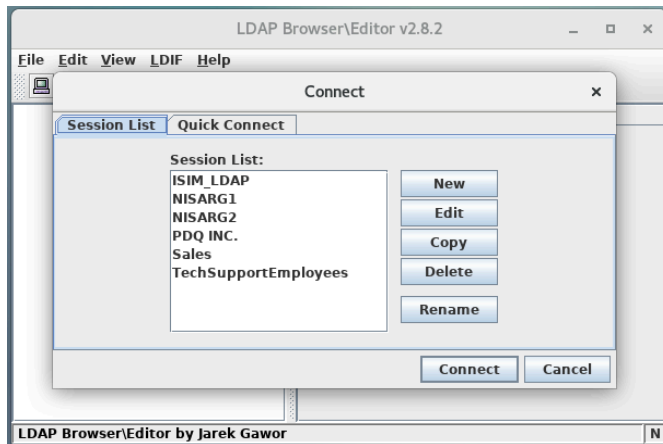
```

## Using the LDAP Browser

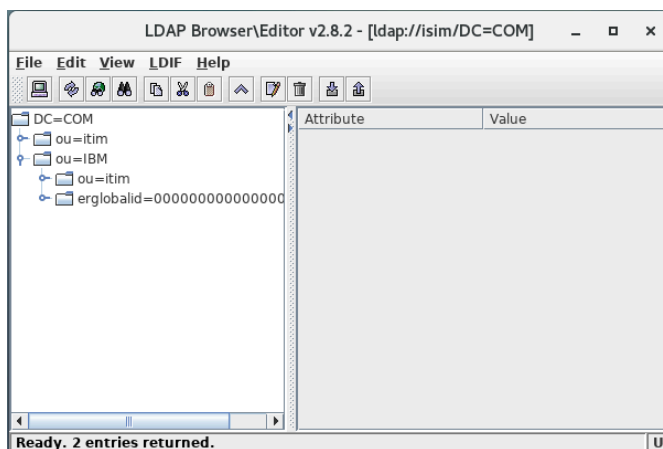
LDAP Browser is a desktop-based LDAP browser that enables you to read and display the tree of an LDAP Server. It is already installed and configured for you. LDAP Browser simplifies viewing entries and relationships in the directory server.

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

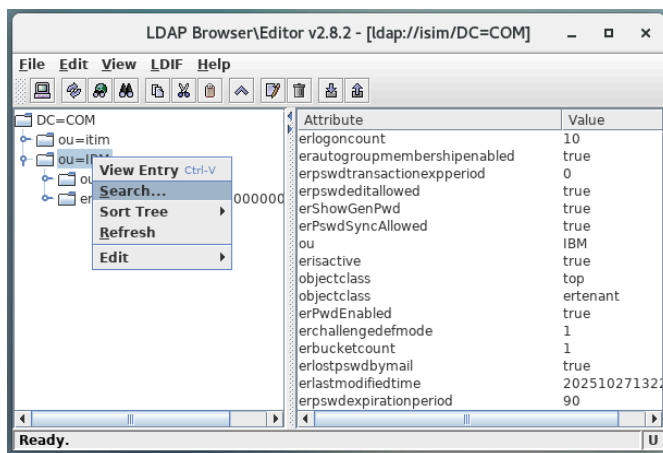
The tool is configured with connections to the IBM Security Identity Manager directory server on isim.test.



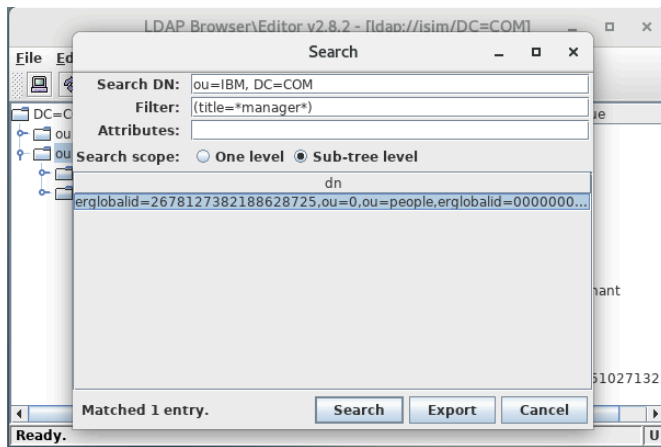
- In the sessions panel of the interface, double-click ISIM\_LDAP to open a connection.
- In the LDAP Browser panel, expand the dc=com > ou=IBM



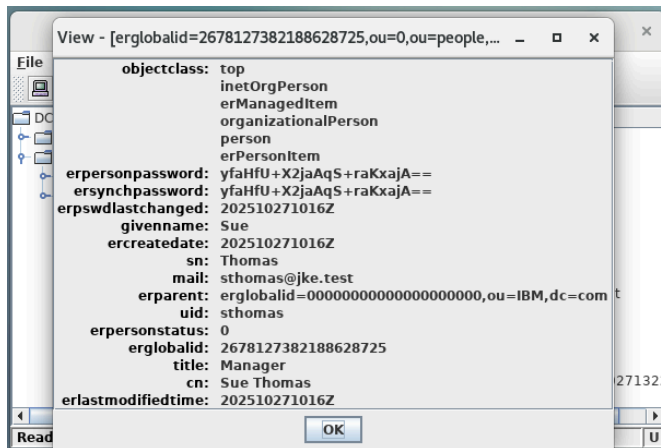
- Right click the ou=IBM entry and select Search



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



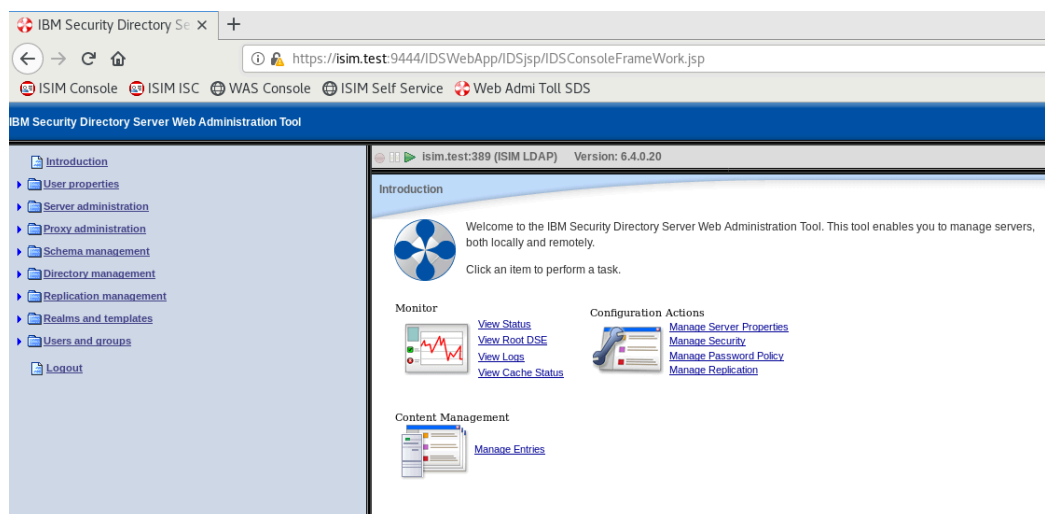
- The search result is the Sue Thomas entry. Right click on the result and click View Entry and check details of Sue Thomas.



## 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.

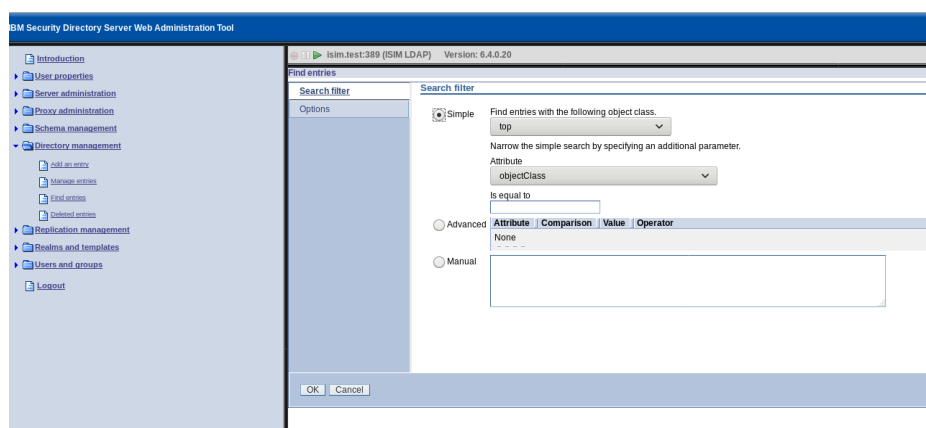
- Open a web browser and open <https://isim.test:9444/IDSWebApp/> Or Click the Web Admin Tool SDS bookmark.
- Log in as user name cn=root with password P@ssw0rd.



## 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 :

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

**Find entries**

**Search filter**

**Options**

☒ Simple Find entries with the following object class.  
 top

Narrow the simple search by specifying an additional parameter.

Attribute  
 cn

Is equal to  
 Bob Smith

☐ Advanced **Attribute** **Comparison** **Value** **Operator**  
 None

☐ Manual

OK Cancel

- Click OK

isim.test:389 (ISIM LDAP) Version: 6.4.0.20 User ID: cmroot

**Search results**

Search base DN :  
 Search filter : (&(objectclass=top)(cn=Bob Smith))

Edit attributes... Copy... Delete Edit ads... Rows: 1

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="radio"/>		erglobalid=2678763023692293141.ous	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT

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

Close

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

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

Edit an entry erglobalid=2678763023692293141,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com

**Edit an entry**

→ Edit an entry  
Optional attributes

**Edit an entry**

Object class inheritance:  
top

**Distinguished name (DN)**

\*Relative DN: erglobalid=2678763023692293141  
Parent DN: ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com Browse...

**Required attributes**

Enter the values for the attributes of the entry. For multiple values click **Multiple values** next to the attribute.

\*cn: Bob Smith Multiple values

\*sn: Smith Multiple values

< Back Next > Finish Cancel

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

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

Edit an entry erglobalid=2678763023692293141,ou=0,ou=people,erglobalid=000000000000000000,ou=IBM,dc=com

**Edit an entry**

✓ Edit an entry  
→ Optional attributes

**Optional attributes**

Enter the values for the attributes of the entry. For multiple values click **Multiple values** next to the attribute.

audio: Binary data

businessCategory: Multiple values

carLicense: Multiple values

departmentNumber: Multiple values

description: Multiple values

destinationIndicator: Multiple values

displayName: Multiple values

employeeNumber

employeeType: Multiple values

erAcl: Binary data

erAliases: Multiple values

erAuthorizationOwner: Multiple values

erCreateDate 202510271018Z

erCustomDisplay

erGlobalId 2678763023692293141

erImageURI: Multiple values

erIsDeleted

erLastCertifiedDate: Multiple values

## 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:

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

**Add filter**

Attribute  
title

Comparison  
Is equal to

Value  
\*manager\*

Operator  
AND

OK Cancel

- Click OK.

isim.test:389 (ISIM LDAP) Version: 6.4.0.20 User ID: cn=root

**Find entries**

Search filter

Simple Find entries with the following object class: ldap

Narrow the simple search by specifying an additional parameter.

Attribute: cn

Is equal to: Bob Smith

Advanced

Select	Attribute	Comparison	Value	Operator
<input checked="" type="checkbox"/>	objectClass	Is equal to	Person	AND
<input checked="" type="checkbox"/>	title	Is equal to	*manager*	AND

Manual

OK Cancel

- Click OK to perform the search.

isim.test:389 (ISIM LDAP) Version: 6.4.0.20 User ID: cn=root

**Search results**

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

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

Page 1 of 1 1 GO Rows 3 Total: 3 Filtered: 3

Close

- 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\*.



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

**Edit filter**

Attribute  
title

Comparison  
Is not equal to

Value  
\*manager\*

Operator  
AND

OK Cancel

ism.test:389 (ISIM LDAP) Version: 6.4.0.20 User ID: cn=root

Search results

Search base DN :

Search filter : (&(objectClass=Person)(title=\*))

Select	Expand	RDN	Object class	Created	Last modified	Last modified by
<input type="radio"/>		erglobalid=00000000000000000007.ou=	inetOrgPerson	Apr 22, 2020	Oct 6, 2025	CN=ROOT
<input type="radio"/>		erglobalid=2678763023692293141.ou=	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>		erglobalid=2679424690555505858.ou=	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>		erglobalid=2679892266760594274.ou=	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>		erglobalid=2681830345054884859.ou=	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>		erglobalid=2701156975286556406.ou=	inetOrgPerson	Oct 27, 2025	Oct 27, 2025	CN=ROOT
<input type="radio"/>		uid=freelader.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	Oct 27, 2025	CN=ROOT
<input type="radio"/>		uid=sbell.ou=sales.o-pdg	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
<input type="radio"/>		uid=jweight.ou=sales.o-pdg	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
<input type="radio"/>		uid=mbrown.ou=sales.o-pdg	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
<input type="radio"/>		uid=mmannheim.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	May 6, 2020	CN=ROOT
<input type="radio"/>		uid=sashomaker.ou=TechSuppEmployee	inetOrgPerson	May 6, 2020	May 6, 2020	CN=ROOT

Page 1 of 1 Rows 12 Total: 12 Filtered: 12

## Browsing the organization tree

- Click **Directory Management > Manage entries**.

IBM Security Directory Server Web Administration Tool

Introduction

User accounts

Server administration

Proxy administration

Schema management

Directory management

Load an entry

Import entries

Export entries

Delete entries

Replication management

Plugins and templates

Users and groups

Logout

IBM test:389 (DSM LDAP) Version: 6.4.0.20

User ID: cmroot Logout HS

Manage entries

Current location: ldap://ism.test:389

Expand Find-- Add-- Edit attributes-- Delete

Select

Expand

RDN

Object class

Created

Last modified

Last modified by

<input type="checkbox"/>		<a href="#">cn=root@organization</a>	IBM-shapTop			
<input type="checkbox"/>		<a href="#">cn=binopolices</a>	container	Apr 22, 2020	Apr 22, 2020	CN=ANYBODY
<input type="checkbox"/>		<a href="#">cn=localhost</a>	container	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>		<a href="#">dc=com</a>	domain	Apr 22, 2020	Apr 22, 2020	CN=ROOT
<input type="checkbox"/>		<a href="#">dc=contractors</a>	domain	Apr 23, 2020	Apr 23, 2020	CN=ROOT
<input type="checkbox"/>		<a href="#">orgpda</a>	organization	Apr 28, 2020	Apr 28, 2020	CN=ROOT

Page 1 of 1

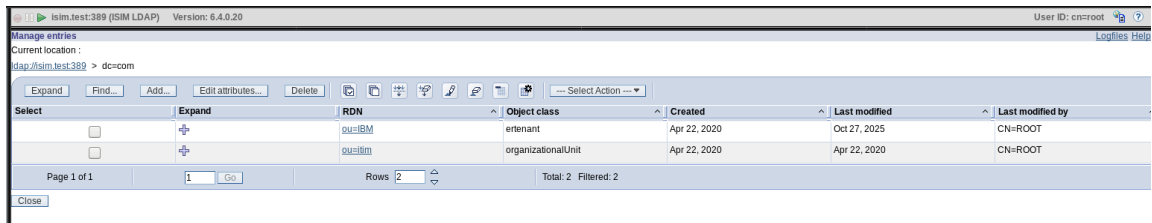
1 Go

Rows 6

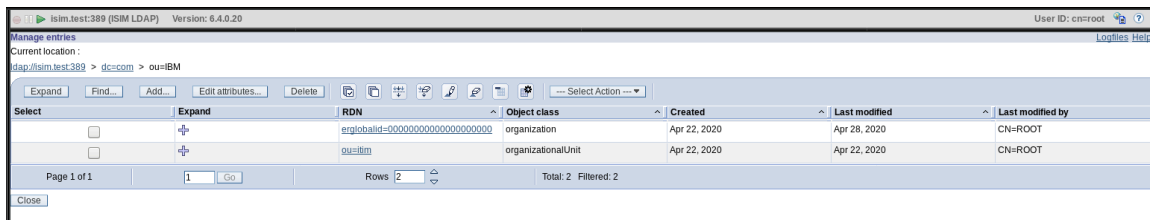
Total: 6 Filtered: 6

Close

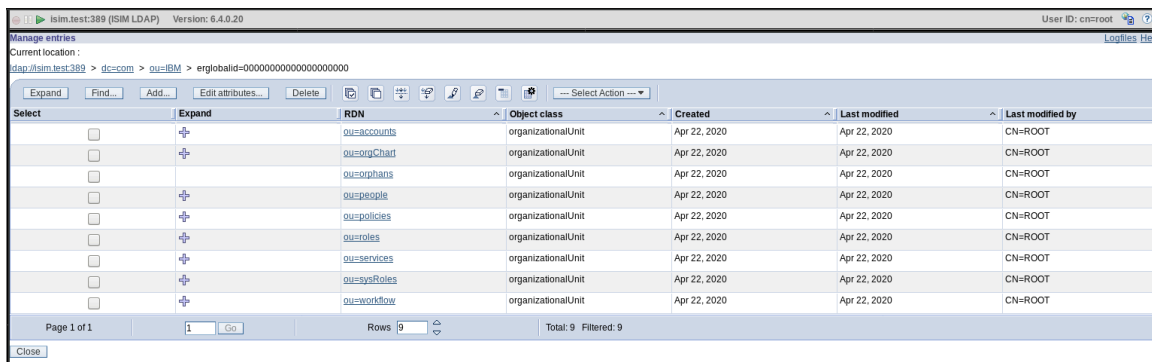
- Select dc=com and click Expand.



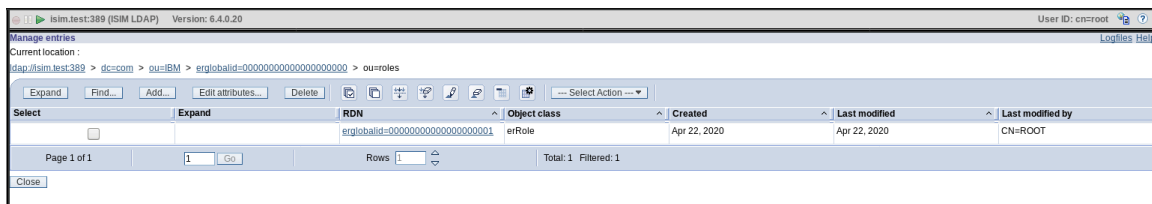
- Select ou=ibm and click Expand.



- Select erglobalid=00000000000000000000 and click Expand.



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



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

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

Edit an entry erglobalid=00000000000000000001,ou=roles,erglobalid=00000000000000000000,ou=IBM,dc=com

[Edit an entry](#)

→ [Edit an entry](#)

Optional attributes

**Edit an entry**

Object class inheritance:  
top

**Distinguished name (DN)**

\*Relative DN: erglobalid=00000000  
Parent DN: ou=roles,erglobalid=00000000000000000000 Browse...

**Required attributes**

Enter the values for the attributes of the entry. For multiple values click **Multiple values** next to the attribute.

\*erRoleName  
TIM Administrators

< Back Next > Finish Cancel

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

Edit an entry erglobalid=00000000000000000001,ou=roles,erglobalid=00000000000000000000,ou=IBM,dc=com

[Edit an entry](#)

✓ [Edit an entry](#)

→ [Optional attributes](#)

**Optional attributes**

Enter the values for the attributes of the entry. For multiple values click **Multiple values** next to the attribute.

description: Predefined system administrator Multiple values

erAccessCategory

erAccessDescription: Multiple values

erAccessName

erAccessOption: Multiple values

erAccessTag: Multiple values

erAcl: Binary data

erAdditionalInformation

erApprovalProcessID: Multiple values

erAuthorizationOwner: Multiple values

erBadge: Multiple values

erGlobalId 0000000000000000000001

erImageURI: Multiple values

erIsDeleted

erLastModifiedTime

**erLifecycleEnable**

☒ Not specified  
☐ True  
☐ False