

INSTITUTE OF COMPUTER TECHNOLOGY

B-TECH COMPUTER SCIENCE ENGINEERING 2025-26

SUBJECT:Identity Access and Management

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LAB – 8

Title: Organization management exercises

3.1 Creating the Organization Tree

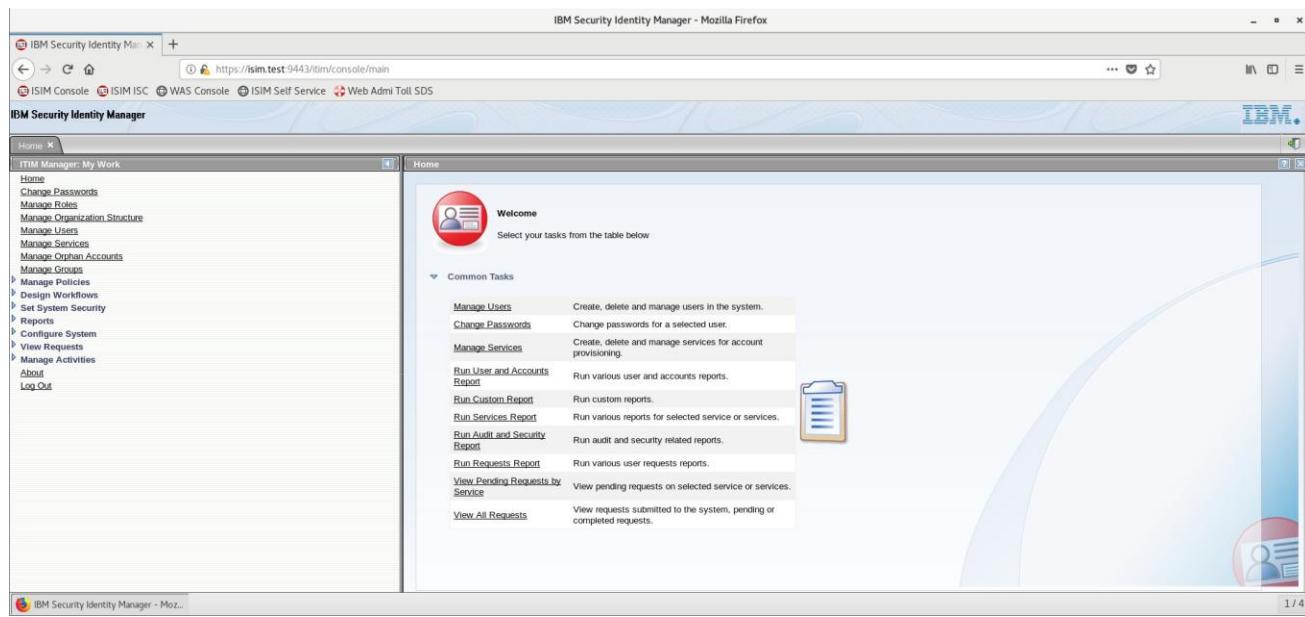
Aim

To create organizational units and sub-locations under the default JK Enterprises organization.

Procedure

1. Log in to the **ISIM Administrative Console** as

- User ID: itim manager
- Password: P@ssw0rd



2. Navigate to **Home** → **Manage Organization Structure**.
3. Expand the tree and click **JK Enterprises** → **Create Organizational Unit**.
4. Fill in the form:

Field	Value
Organizational Unit Name	Sales
Description	Sales Organizational Unit
Supervisor	System Administrator

Manage Organization Structure

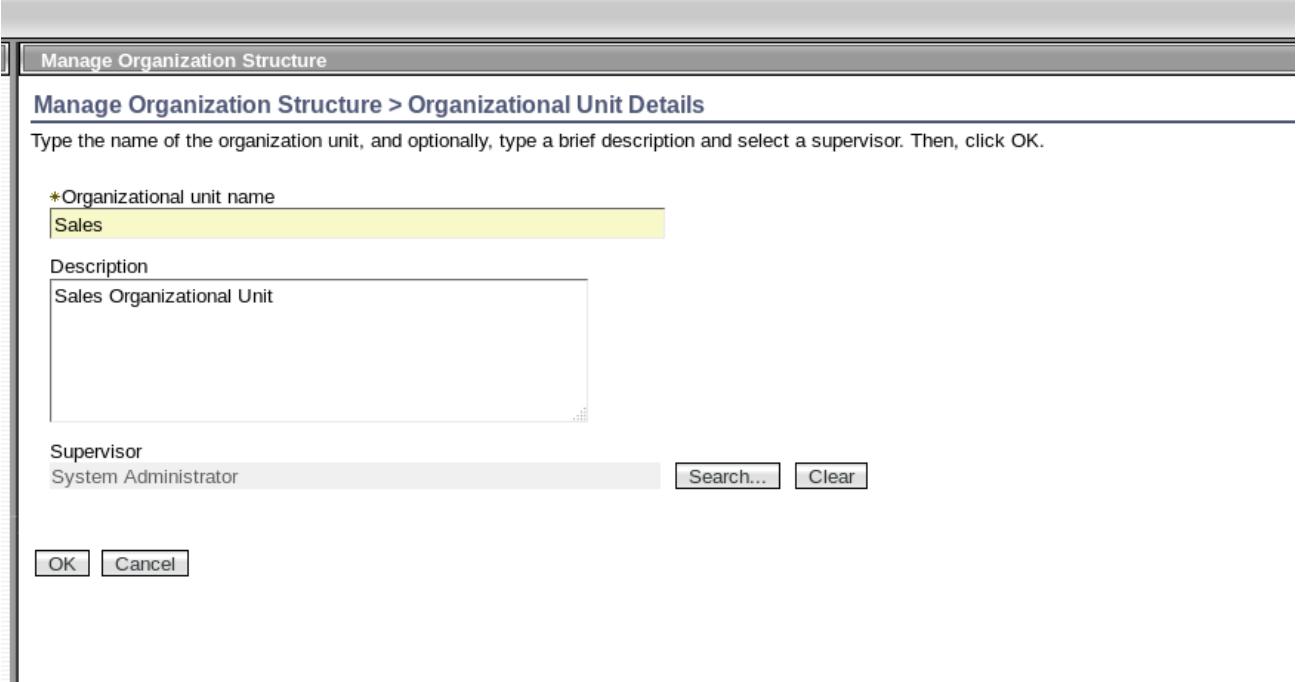
Manage Organization Structure > Organizational Unit Details

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

*Organizational unit name

Description

Supervisor



5. Click **OK** and refresh to view the new OU.
6. Repeat steps 3–5 to create **Finance** and **Development** OUs.

Output

Organization tree now shows three OUs under JK Enterprises:

```
JK Enterprises
├── Sales
├── Finance
└── Development
```

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.

The screenshot shows a hierarchical tree structure of business units. At the top level is 'JK Enterprises'. Underneath it are three children: 'Development', 'Finance', and 'Sales'. Each of these nodes has a small icon to its left: a blue square for 'Development', a yellow square for 'Finance', and a red square for 'Sales'. To the left of the tree, there is a navigation bar with icons for Home, Back, Forward, and Search. Below the tree, there are two buttons: 'Search...' and 'Close'.

3.2 (b) Adding Location Units

Aim

To create regional location nodes under the Sales OU.

Procedure

7. Expand **JK Enterprises** → **Sales**, select **Create Location**.
8. Enter:

Field	Value
Location Name	WW
Description	Worldwide Sales
Supervisor	System Administrator

9. Click **OK**.

10. Repeat for the following locations: **Americas, EMEA, AP**.

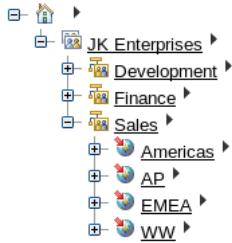
Manage Organization Structure

 You successfully created a new **Location** called AP

[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.



```

graph TD
    Root[House] --- JK[JK Enterprises]
    JK --- Development[Development]
    JK --- Finance[Finance]
    JK --- Sales[Sales]
    Sales --- Americas[Americas]
    Sales --- AP[AP]
    Sales --- EMEA[EMEA]
    Sales --- WW[WW]
  
```

Search... Close

Output

```

Sales
├── WW
├── Americas
├── EMEA
└── AP
  
```

3.1 (c) Adding Business Partner Unit

Aim

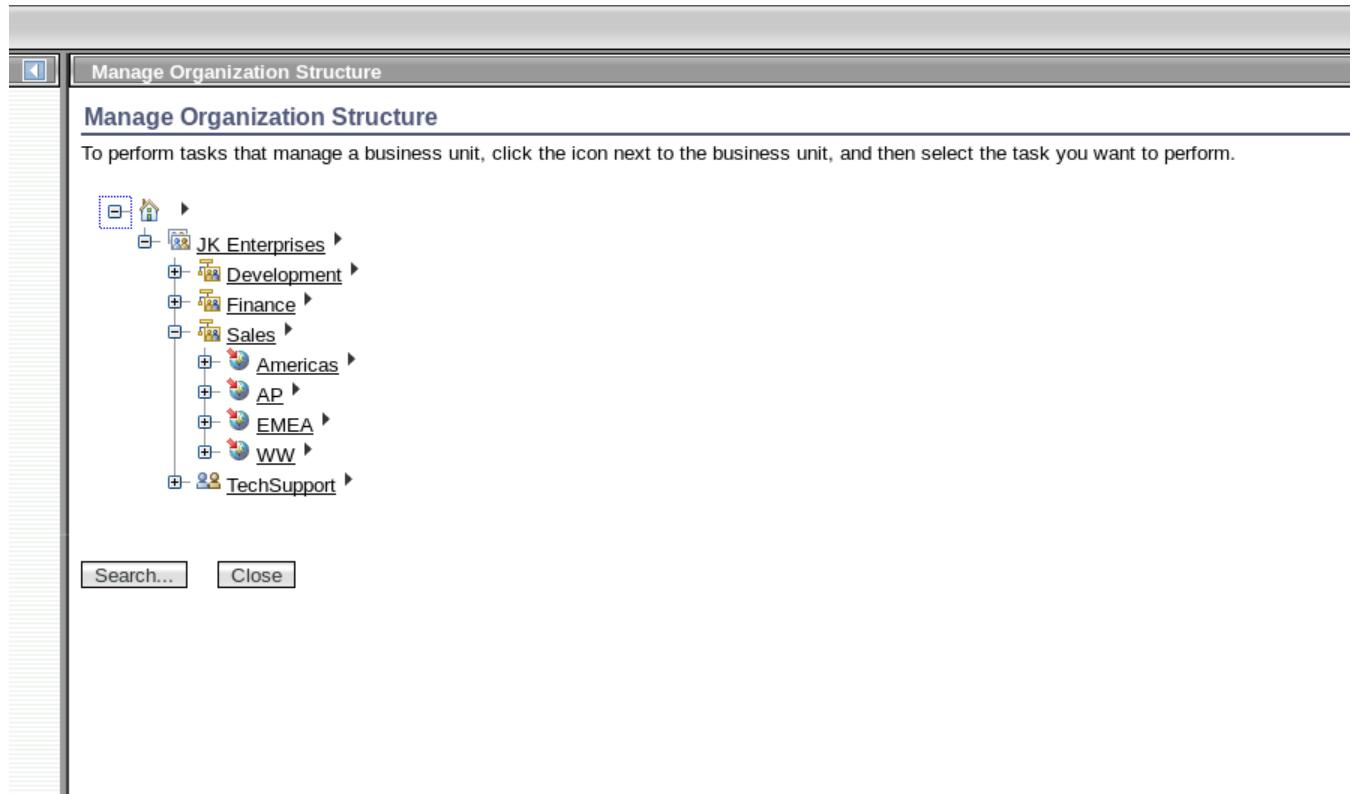
To create a business-partner organization for TechSupport.

Procedure

1. Under **JK Enterprises**, click **Create Business Partner Unit**.
2. Enter:

Field	Value
Business Partner Name	TechSupport
Sponsor	System Administrator

3. Click **OK**.



Output

```
JK Enterprises
└── Sales
└── Finance
└── Development
└── TechSupport
```

3.2 Creating Users

Aim

To manually add user entries through the ISIM web interface.

Procedure

1. Go to **Home** → **Manage Users** → **Create**.
2. Select **User Type:** Person → Click Continue.
3. Enter the following users under **JK Enterprises**:

Full Name	User ID	Title	Email	Password
Sue Thomas	sthomas	Manager	sthomas@jke.test	P@ssw0rd
Bob Smith	bsmith	—	bsmith@jke.test	P@ssw0rd
Erica Carr	ecarr	—	ecarr@jke.test	P@ssw0rd
John Davis	jdavis	—	jdavis@jke.test	P@ssw0rd

4. Add **Alice Smith** to the **Finance** OU:

- User ID: asmith
- Email: asmith@jke.test
- Password: P@ssw0rd

	Create	Change	Delete	Suspend	Restore	Transfer	Refresh
<input type="checkbox"/> 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	suthomas@jk...	Thomas	JK Enterprises	Active		
<input type="checkbox"/>	System Administrator		Administrator	JK Enterprises	Active		

[Close](#)

Output

All users appear under their assigned business units in **Manage Users**.

3.3 Creating an Admin Domain

Aim

To assign a separate admin domain for the TechSupport business partner.

Procedure

5. Go to **Manage Organization Structure**.
6. Select **TechSupport** → **Create Admin Domain**.
7. Fill in details:

Field	Value
Admin Domain Name	TechSupport Business Security
Description	Allows TechSupport to manage their Linux services
Administrator	John Davis

8. Click **OK**.

The screenshot shows the SAP Fiori interface for managing organization structure. A message box at the top right says: "You successfully created a new Admin Domain called TechSupport Business Security". Below it is a "Close Message" button. The main area is titled "Manage Organization Structure" with a subtitle: "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." On the left is a tree view of the organization structure under "JK Enterprises": JK Enterprises (with icons for Organization, Organizational Unit, Business Partner Organiz, Location, Admin Domain), Development, Finance, Sales, TechSupport, and TechSupport Business Security. On the right is a legend: Organization (building icon), Organizational Unit (person icon), Business Partner Organiz (map icon), Location (location pin icon), and Admin Domain (key icon). At the bottom are "Search..." and "Close" buttons.

Output

```
TechSupport
└── TechSupport Business Security (Admin Domain)
```

33 Adding a System Administrator

Aim

To create a new user ID and add it to the **System Administrator group**.

Procedure

1. In **Manage Users**, click **Create Person** under **JK Enterprises**.
2. Fill in:

Field	Value
Last Name	P
Full Name	Rahul
Preferred User ID	PRahul
Organizational Role	ITIM Administrators
Email	prahul@jke.test
Password	P@ssw0rd

3. Submit the user.
4. Go to **Manage Groups** → **ITIM Service** → **System Administrator group** → **Add Members**.
5. Search your user ID and add it.
6. Submit and log out.
7. Log in again with your new user ID to verify admin access.

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 then click **Search**. The users that match clicking **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 of an (For example, typing ***b*** will find "abc".)

System account information _____

Attribute
 User name
 User ID **Search**

System Accounts

1 results found for: **gjaimin**

Select	User Name	User ID
<input checked="" type="checkbox"/>	gjaimin	1

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

OK **Cancel**

8.

Output

New system administrator user has full access to ISIM operations.

IBM Security Identity Manager - Mozilla Firefox

IBM Security Identity Manager

gjaimin: 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

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 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.

34 Enabling Automatic Group Membership

Aim

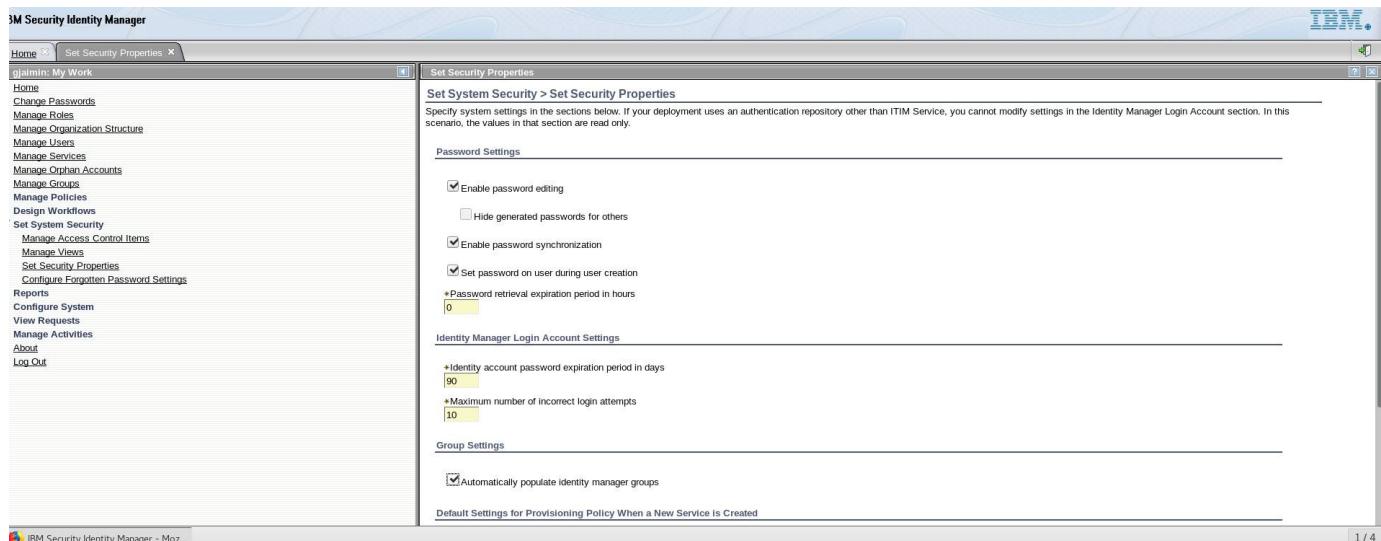
To automatically populate Manager and Service Owner groups.

Procedure

1. Log in with your admin ID.
2. Go to **Home** → **Set System Security** → **Set Security Properties**.
3. Under **Group Settings**, enable

Automatically populate Identity Manager groups

4. Click **OK** → **Close**.



Explanation

This setting allows ISIM to automatically add users to groups based on their assigned roles and privileges.

35 Navigating LDAP

Aim

To explore directory entries using CLI and graphical tools.

(a) Using Command Line – **idsldapsearch**

1. Open a terminal and change to the LDAP binary directory:

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

Explanation: Navigates to where **idsldapsearch** utility is stored.

1 Search for Bob Smith (all attributes)

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

Explanation:

- **-s sub** – search entire subtree
- **-b "dc=com"** – start at root base DN
- **cn=Bob Smith** – filter for common name

Output:



```
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=8031343117350535332,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfU+X2jaAqS+raKxajA==
givenname=Bob
ercreatedate=202510162357Z
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=8031343117350535332
cn=Bob Smith
erlastmodifiedtime=202510162357Z
erswdlastchanged=202510162357Z
ersynchpassword=yfaHfU+X2jaAqS+raKxajA==
[root@isim bin]#
```

2 Retrieve only Sue Thomas's email

SHELL

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

Output:

```
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=8030790709362510662,ou=0,ou=people,erglobalid=00000000000000000000,ou=IBM,dc=com
mail=sthomas@jke.test
[root@isim bin]#
```

3 List all entries under JKE organization

SHELL

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

Explanation: Returns all objects under the base DN.

```
root@isim:/opt/ibm/ldap/V6.4/bin
File Edit View Search Terminal Help
[root@isim bin]# ./idsldapsearch -b "dc=com" "objectclass=*" 
erglobalid=00000000000000000001,ou=roles,erglobalid=0000000000000000,ou=IBM,dc=com
mail=gjaimin@jke.test
erparent=erglobalid=0000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=inetOrgPerson
objectclass=erManagedItem
objectclass=organizationalPerson
objectclass=person
objectclass=erPersonItem
uid=Gjaimin
erpersonstatus=0
erglobalid=8035912042834843032
cn=Gjaimin
erlastmodifiedtime=202510170015Z
erpwdlastchanged=202510170015Z
ersyncpassword=fafHfU+X2jaAq5+raKxajA==

eruid=gjaimin,ou=systemUser,ou=itim,ou=IBM,dc=com
eruid=gjaimin
erpwdlastchanged=202510170015Z
erchangepwdrequired=false
owner=erglobalid=8035912042834843032,ou=0,ou=people,erglobalid=0000000000000000,ou=IBM,dc=com
objectclass=top
objectclass=erAccountItem
objectclass=erManagedItem
objectclass=erSystemUser
erhistoricalpassword=NOT ASCII
erpassword=SHA-256:bDNYbxZvBDM2bmVz:KHByBAhf+wl+oIOPJ0nu00L5g89QVR0tt7Hx0M1mBQ=
erservice=erglobalid=00000000000000000002,ou=services,erglobalid=0000000000000000,ou=IBM,dc=com
erobjcttype=1
erroles=erglobalid=00000000000000000003,ou=sysRoles,erglobalid=0000000000000000,ou=IBM,dc=com
erlastaccessdate=202510170019Z
ernumlogonattempt=0
eraccountstatus=0
[root@isim bin]#
```

4 Find entries with "manager" in title

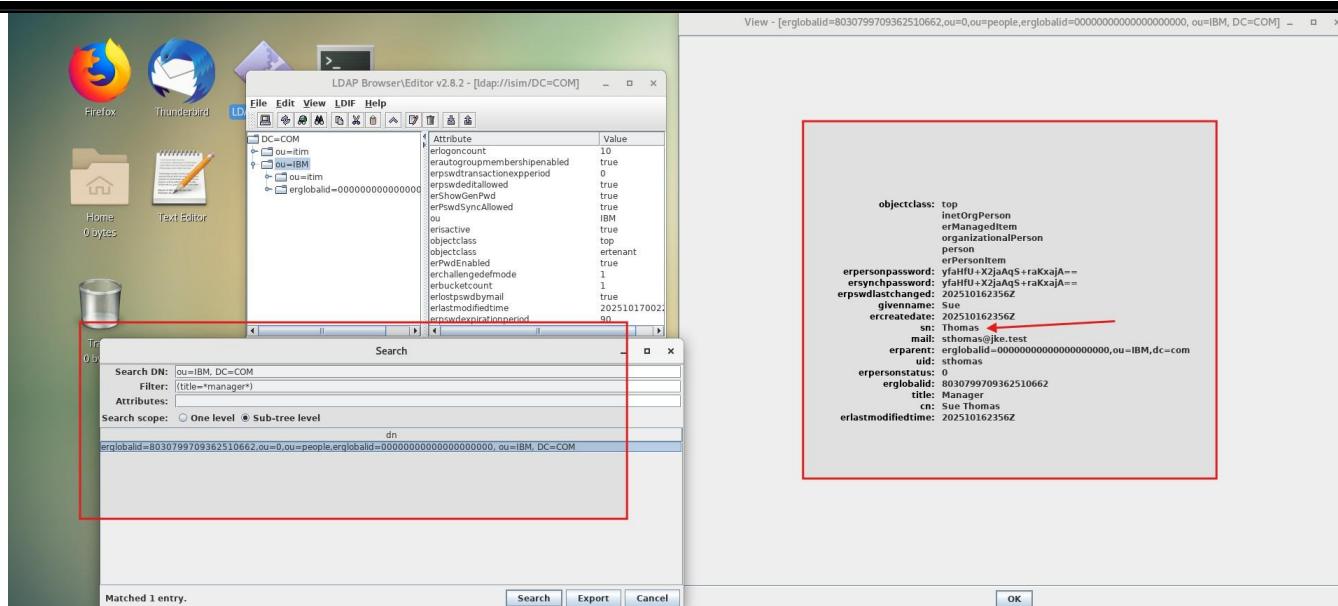
```
./idsldapsearch -b "dc=com" "title=*manager*"
```

Output:

```
root@isim:/opt/ibm/ldap/V6.4/bin
File Edit View Search Terminal Help
[root@isim bin]# ./idsldapsearch -b "dc=com" "title=*manager*"
erglobalid=8030799709362510662,ou=0,ou=people,erglobalid=000000000000000000000000,ou=IBM,dc=com
erpersonpassword=yfaHfU+X2jaAqS+raKxajA==
givenname=Sue
ercreatedate=202510162356Z
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=8030799709362510662
title=Manager
cn=Sue Thomas
erlastmodifiedtime=202510162356Z
erpswdlastchanged=202510162356Z
ersynchpassword=yfaHfU+X2jaAqS+raKxajA==
[root@isim bin]# ■
```

(b) Using LDAP Browser

1. Launch **LDAP Browser** (desktop shortcut).
2. Double-click **ISIM_LDAP** session to connect.
3. Expand **dc=com** → **ou=IBM**.
4. Right-click **ou=IBM** → Search.
5. Set filter to **(title=*manager*)**, select **sub-tree** search.
6. Click **Search** → Sue Thomas appears.
7. Right-click her entry → **View Entry** to see attributes.



(c) Using Web Administration Console

1. Open: <https://isim.test:9444/IDSWebApp/>
2. Log in as: cn=root/P@ssw0rd
3. Navigate to **Directory Management → Find Entries.**
4. Filter for **cn=Bob Smith** → View Attributes.

Filtering Entries

To find all persons with title = manager:

- Filter Type: Advanced
- Add Condition 1:objectClass = "person"
- Operator: AND
- Add Condition 2:title=*manager*

The screenshot shows the IBM Security Directory Server Web Administration Tool interface. The left sidebar contains navigation links for User properties, Server administration, Proxy administration, Schema management, and Directory management (with sub-options like Add an entry, Manage entries, Find entries, Deleted entries). The main panel displays the URL <https://isim.test:9444/IDSWebApp/IDSjsp/IDSConsoleFrameWork.jsp> and the title "IBM Security Directory Server Web Administration Tool". A sub-header indicates the connection is to "isim.test:389 (ISIM LDAP)" and the version is "6.4.0.20". A modal dialog titled "Add filter" is open, showing the configuration for the first filter condition:

- Attribute: objectClass
- Comparison: Is equal to
- Value: Person
- Operator: AND

Buttons for OK and Cancel are visible at the bottom of the dialog.

This screenshot shows the same interface as the previous one, but the modal dialog now displays the configuration for the second filter condition:

- Attribute: title
- Comparison: Is equal to
- Value: *manager*
- Operator: AND

Buttons for OK and Cancel are visible at the bottom of the dialog.

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

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
<input type="radio"/>		erglobalid=8030799709362510662,ou=inetOrgPerson	inetOrgPerson	Oct 16, 2025	Oct 16, 2025	CN=ROOT
<input type="radio"/>		uid=rgoto,ou=sales,o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT
<input type="radio"/>		uid=jwright,ou=sales,o=pdq	inetOrgPerson	Apr 28, 2020	Apr 28, 2020	CN=ROOT

Page 1 of 1 | 1 Go | Rows 3 | Total: 3 Filtered: 3

[Close](#)

d) Browsing the Organization Tree

5. Directory Management → Manage Entries.

6. Expand hierarchy:

```
dc=com
└── ou=IBM
    └── erglobalid=000000000000000000000000
        └── ou=roles
```

7. Select a role → Edit Attributes to view details.

IBM Security Directory Server Web Administration Tool - Mozilla Firefox

User ID: cn=root Logins Help

https://isim.test:9444/IDSWebApp/IDSjsp/IDSConsoleFrameWork.jsp

ISIM Console ISIM ISC WAS Console ISIM Self Service Web Admin Tool SDS

IBM Security Directory Server Web Administration Tool

- Introduction
- User properties
- Server administration
- Proxy administration
- Schema management
- Directory management
 - Add an entry
 - Change entries
 - Find entries
 - Deleted entries
- Replication management
- Realms and templates
- Users and groups
- Logout

Edit an entry

Object class inheritance: top

Distinguished name (DN)

Relative DN: Parent DN:
erglobalid=000000000000000000000000
ou=roles,erglobalid=000000000000000000000000

Required attributes

Enter the values for the attributes of the entry. For multiple values click Multiple values next to the attribute.
+erRoleName
ITM Administrators

< Back | Next > | Finish | Cancel |