

INSTITUTE OF COMPUTER TECHNOLOGY

B-TECH COMPUTER SCIENCE ENGINEERING 2025-26

SUBJECT: IDENTITY ACCESS MANAGEMENT

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Lab 9: User management and Role management exercises

Exercise 1 – Changing user information

This exercise depends on the users you created in Exercise 2, "Creating users," on page 9. In this exercise, you learn how to change different attributes of user information.

Changing a name

Alice Smith gets married and decides to take her husband's surname, Smyth. In this part of the exercise, you modify her personal information to reflect the change.

1. On the **Home** tab, go to **Manage Users**.
2. Click **Refresh**. Locate **Alice Smith**. Click the arrow to the right of the name and click **Change**.
3. Change the **Last name, Full name, Preferred user ID, and email address** attributes to reflect her married name, **Smyth**. Click **Submit Now** to send the update.
4. **Refresh** the user list to confirm the name change.
5. Click the **arrow** to the right of Alice Smyth and click **Accounts**. Click **Refresh**. For the account on ITIM Service, Click arrow to the right and Click **Change** and change the user id from **asmith** to **asmyth** and **Submit** the request. Click **Refresh** to confirm changes.

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

<div>CreateChangeDeleteSuspendRestoreTransferRefresh</div>					
<div><input type="checkbox"/> Select</div>	<div>Name</div>	<div>E-mail Address</div>	<div>Last Name</div>	<div>Business ...</div>	<div>Status</div>
<div><input type="checkbox"/></div>	<div>Alice Smyth</div>	<div>▶ asmyth@jke.test</div>	<div>Smyth</div>	<div>Finance</div>	<div>Active</div>
<div><input type="checkbox"/></div>	<div>Bob Smith</div>	<div>▶ bsmith@jke.test</div>	<div>Smith</div>	<div>JK Enterprises</div>	<div>Active</div>
<div><input type="checkbox"/></div>	<div>Erica Carr</div>	<div>▶ ecarr@jke.test</div>	<div>Carr</div>	<div>JK Enterprises</div>	<div>Active</div>
<div><input type="checkbox"/></div>	<div>John Davis</div>	<div>▶ jdavis@jke.test</div>	<div>Davis</div>	<div>JK Enterprises</div>	<div>Active</div>
<div><input type="checkbox"/></div>	<div>Sue Thomas</div>	<div>▶ sthomas@jke.test</div>	<div>Thomas</div>	<div>JK Enterprises</div>	<div>Active</div>
<div><input type="checkbox"/></div>	<div>System Administrator</div>	<div>▶</div>	<div>Administrator</div>	<div>JK Enterprises</div>	<div>Active</div>
<div>Page 1 of 1</div>					
<div>Total: 7 Displayed: 7 Selected: 0</div>					

Manage Accounts

Manage Users > Accounts

To locate the accounts for **Alice Smyth**, type a user ID or service name, and select the corresponding filter. Select an ownership type, then click Search. The accounts that match your criteria are listed in the table below. By default, 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 item, use the asterisk (*) on the keyboard to indicate a wildcard. (For example, typing "b*" will find "abc".)

Account information

Search by

☒ User ID
 ☐ Service Name

Ownership Type

All

Search

Advanced...

Manage Users > Accounts

To perform a particular task on an account for **Alice Smyth**, click the icon next to the name of the user, and then select the task that you want to perform.

1 results found for: *

Request...

Change

Delete

Suspend

Restore

Change Category

Refresh

<input type="checkbox"/>	s ^	State ^	User ID ^	Service Name ^	Ownership Type ^	Status ^
<input type="checkbox"/>			asmyth	ITIM Service	Individual	Active

Page 1 of 1

Total: 1 Displayed: 1 Selected: 0

Close

Changing a manager attribute

Through a management restructuring, Alice Smyth now reports to Sue Thomas. In this part of the exercise, you modify Alice's manager attribute.

1. On the **Home** tab, you go to **Manage Users**.
2. Locate **Alice Smyth**. Click the arrow to the right of the name and click **Change**.
3. Click the **Business Information** tab.
4. In the **Manager** field, click **Search** and locate **Sue Thomas**. Select Sue as the manager and Click **OK**.

- Click **Submit Now** to update the entry. Click **Close**.

The screenshot shows a web application interface for managing users. The main heading is 'Change User'. Below it, there are four tabs: 'Personal Information', 'Business Information' (which is selected), 'Contact Information', and 'Assignment Attributes'. The 'Business Information' tab contains several input fields: 'Office number', 'Employee number', 'Title', 'Manager' (with 'Sue Thomas' entered), 'Postal address', and 'Administrative assistant'. There are 'Search...' and 'Clear' buttons next to the 'Manager' and 'Administrative assistant' fields. At the bottom of the form, there are three buttons: 'Submit Now', 'Schedule Submission', and 'Cancel'.

4.2 Exercise 2 – Transferring users

If a user is promoted, or is added to the incorrect branch of the organization tree, you can transfer the user to the proper branch.

- On the **Home** tab, go to **Manage Users**.
- Search** the user list and locate the entry for **Sue Thomas**.
- Select** the Sue Thomas entry and click **Transfer**.
- Search for the **Finance** organizational unit. Select **Finance** and click **OK**.
- Click **Transfer**. Click **Close**.
- Return to the **Manage Users** tab. **Refresh** the user list to verify that **Sue Thomas** is transferred.
- Repeat steps 1 through 6 to transfer **Bob Smith** to the **WW location** in **Sales**. Also, transfer **John Davis** to the **TechSupport business partner** organization.
- When you are done, the user list should look like this:

Manage Users > Transfer User > Confirm

You have chose to transfer the following users to business unit **TechSupport**:

- **John Davis**

Are you sure you want to proceed?

Schedule

Choose a time and date to schedule this operation.

- ☒ Immediate
☐ Effective date

Date	Time
11/3/2025	3:38 PM

Are you sure you want to proceed?

Transfer User

Manage Users > Transfer User > Confirm

You have chose to transfer the following users to business unit **WW**:

- **Bob Smith**

Are you sure you want to proceed?

Schedule

Choose a time and date to schedule this operation.

☒ Immediate
☐ Effective date

Date	Time
11/3/2025	3:38 PM

Are you sure you want to proceed?

4.3 Exercise 3 – Creating organizational roles

JK Enterprises wants to create organizational roles for the various functions in each department. In this exercise, you create static and dynamic roles.

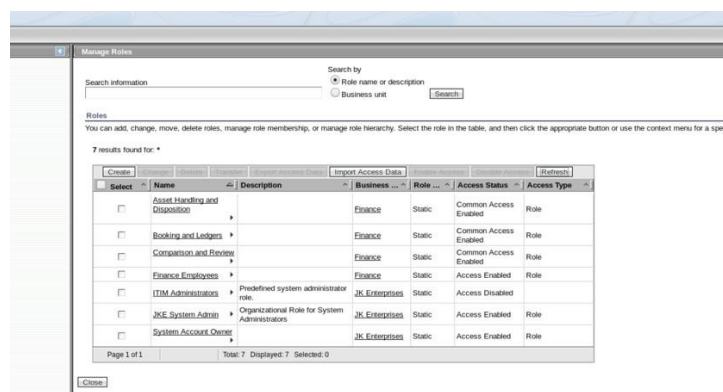
Creating static organizational roles

1. On the **Home** tab, click **Manage Roles**.

2. Click **Create** to add a new role.
3. Complete the **Create Role** form with the following information:

Field	Value
Role Type	Static
Role Classification	<i>[Leave blank]</i>
Business unit	JK Enterprises
Role Name	JKE System Admin
Description	Organizational Role for System Administrators
Access Information	<i>[Leave as is]</i>
Assignment Attributes	<i>[none]</i>
Role Membership	Erica Carr

4. Click **Finish**. Click **Return to the list of Roles I was working with**.
5. Repeat steps 2 through 4 to create 5 more static roles (**these roles do not have any members initially**):
 - a) **System Account Owner** with a Business unit of JK Enterprises
 - b) **Finance Employees** with Business unit of **Finance**.
 - c) **Asset Handling and Disposition** with Business unit of **Finance**.
Check the **Enable access for this role** check box. Also, check the **Show this role as a common access** check box. These settings allow users to request membership in the roles as an access.
 - d) **Booking and Ledgers** with Business unit of **Finance**.
Check the **Enable access for this role** check box. Also, check the **Show this role as a common access** check box.
 - e) **Comparison and Review** with Business unit of **Finance**.
Check the **Enable access for this role** check box. Also, check the **Show this role as a common access** check box.



The screenshot shows the 'Manage Roles' window. At the top, there is a search bar with 'Search by' options for 'Role name or description' and 'Business unit'. Below this, a table lists 7 roles. The table has columns for 'Select', 'Name', 'Description', 'Business', 'Role', 'Access Status', and 'Access Type'. The roles listed are: Asset Handling and Disposition, Booking and Ledgers, Comparison and Review, Finance Employees, ITM Administrators, JKE System Admin, and System Account Owner. The 'Business' column for the first three roles is 'Finance', and for the last four is 'JK Enterprises'. The 'Access Status' column shows 'Common Access Enabled' for the first three and 'Access Enabled' for the last four. The 'Access Type' column shows 'Role' for all roles.

Select	Name	Description	Business	Role	Access Status	Access Type
<input type="checkbox"/>	Asset Handling and Disposition		Finance	Static	Common Access Enabled	Role
<input type="checkbox"/>	Booking and Ledgers		Finance	Static	Common Access Enabled	Role
<input type="checkbox"/>	Comparison and Review		Finance	Static	Common Access Enabled	Role
<input type="checkbox"/>	Finance Employees		Finance	Static	Access Enabled	Role
<input type="checkbox"/>	ITM Administrators	Predefined system administrator role.	JK Enterprises	Static	Access Enabled	Role
<input type="checkbox"/>	JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static	Access Enabled	Role
<input type="checkbox"/>	System Account Owner		JK Enterprises	Static	Access Enabled	Role

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

Creating Dynamic organizational roles

1. Create another role, this time choose the **Dynamic** role type.
2. Complete the **Create Role** form with the following information:

Field	Value
Role Type	Dynamic
Role Classification	<i>[Leave blank]</i>
Business unit	JK Enterprises
Make role applicable to persons in	This business unit and its subunits
Role Name	JKE Managers
Description	Organizational Role for JKE Managers
Access Information	<i>[Leave as is]</i>
Definition (Rule)	<i>(title=*Manager*)</i>

3. Click **Finish**.
 4. On the **Home** tab, click **Manage Roles** and **refresh** the list.
 5. Click the arrow to the right of the **JKE Managers** role and click **Manage User Members**.
 6. Verify that the users in this dynamic role have **manager** in their **title** by viewing the Business Information section.
 7. Create another Dynamic role
 8. Complete the form with the following information:
-

Field	Value
Role Type	Dynamic
Role Classification	[Leave blank]
Business unit	TechSupport
Make role applicable to persons in	This business unit and its subunits
Role Name	Help Desk
Description	TechSupport help desk
Access Information	[Leave as is]
Definition (Rule)	(cn=*)

9 results found for: *

Create	Change	Delete	Transfer	Export Access Data	Import Access Data	Enable Access	Disable Access	Refresh
<input type="checkbox"/>	Select	Name	Description	Business ...	Role ...	Access Status	Access Type	
<input checked="" type="checkbox"/>		Help Desk	TechSupport help desk	TechSupport	Dynamic	Access Enabled		
<input checked="" type="checkbox"/>		JKE Managers	Organizational Role for JKE Managers	JK Enterprises	Dynamic	Access Enabled	Role	
<input type="checkbox"/>		Asset Handling and Disposition		Finance	Static	Common Access Enabled	Role	
<input type="checkbox"/>		Booking and Ledgers		Finance	Static	Common Access Enabled	Role	
<input type="checkbox"/>		Comparison and Review		Finance	Static	Common Access Enabled	Role	
<input type="checkbox"/>		Finance Employees		Finance	Static	Access Enabled	Role	
<input type="checkbox"/>		ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static	Access Disabled		
<input type="checkbox"/>		JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static	Access Enabled	Role	
<input type="checkbox"/>		System Account Owner		JK Enterprises	Static	Access Enabled	Role	
Page 1 of 1		Total: 9 Displayed: 9 Selected: 2						

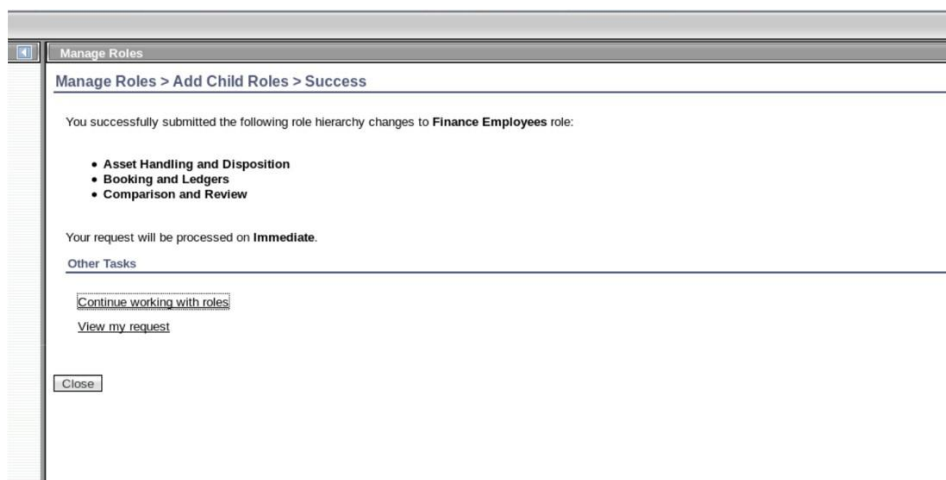
Close

4.4 Exercise 4 – Creating child role assignments

In this exercise, you make the three finance department roles children of the Finance role.

1. On the **Home** tab, click **Manage Roles**.
2. In the **Search** Information box, type **Finance*** to find the role you created in the previous exercise.
3. Click **Search**. The result should be a list that contains your **Finance Employees** role.

4. Click the **arrow** to the right of Finance Employees and select **Add Child Roles**.
5. **Search** for all the roles in the business unit of Finance.
6. Select the three finance child roles:
 - Asset Handling and Disposition
 - Booking and Ledgers
 - Comparison and Review
7. Click **OK**.
8. Select the **Immediate** radio button and click **Submit**.



4.5 Exercise 5 – Creating a separation of duty policy

JK Enterprises wants to ensure that they adhere to the best practices of separation of duty in their finance department. In this exercise, you ensure that in the finance department, no user can have more than one of these roles: **Asset Handling and Disposition**, **Booking and Ledgers**, **Comparison and Review**.

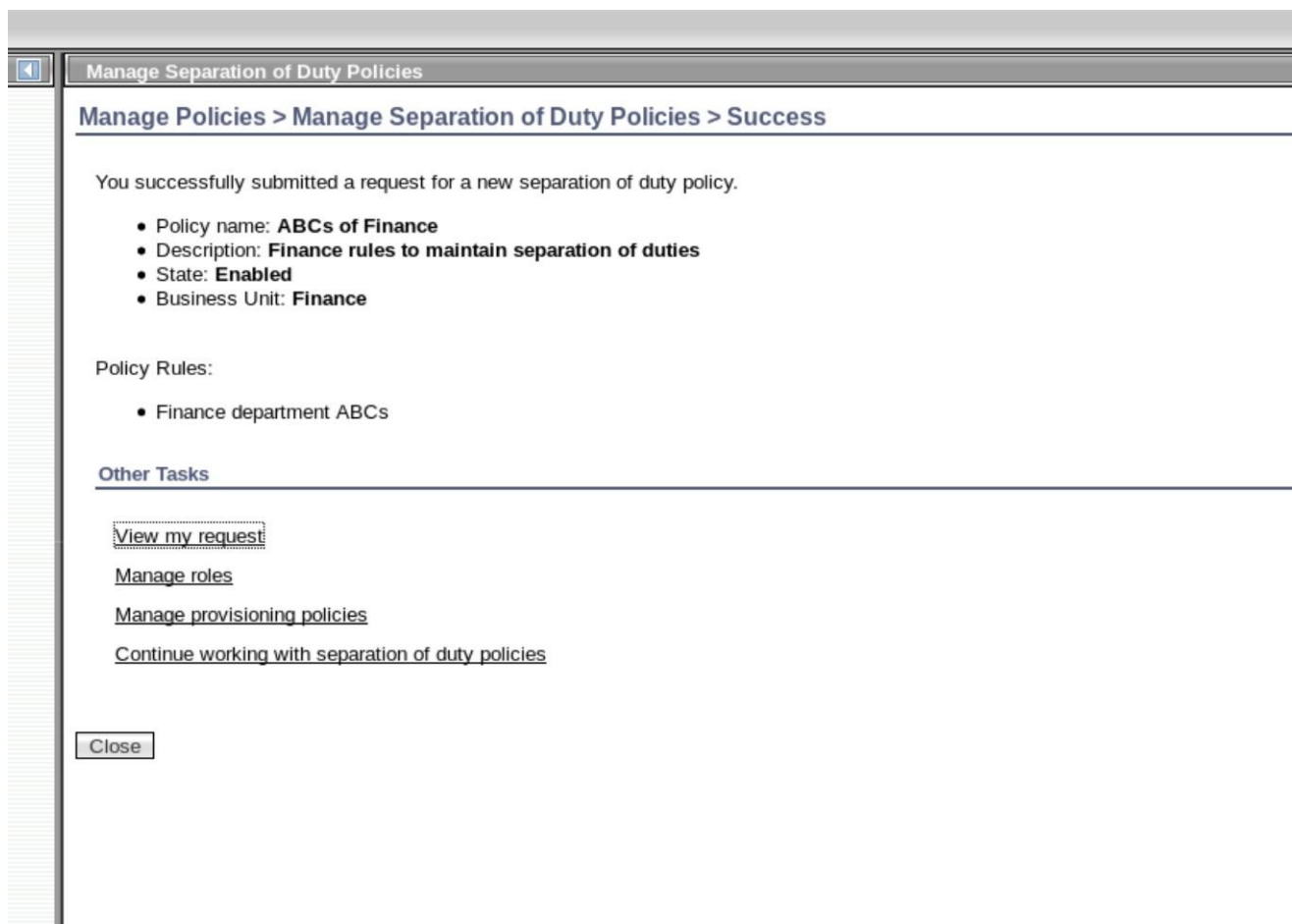
1. On the **Home** tab, go to **Manage Policies > Manage Separation of Duty Policies**.
2. Click **Create**.
3. Create the policy with the following information:

Field	Value
Policy Name	ABCs of Finance
Description	Finance rules to maintain separation of duties
Business Unit	Finance

4. In the Policy Rules section, click **Create** to create a policy rule with the following information:





Field	Value
Description of separation	Finance department ABCs


5. Click **Search** in the Build Role Separation List section.
6. Search for roles in the **business unit of Finance**:
 - Asset Handling and Disposition
 - Booking and Ledgers
 - Comparison and Review
7. After you select the **three** roles, select the number of allowed roles. In this case, you allow only **one** role.
8. Click **OK**.
9. Under **Policy Owners > User Policy Owners**, click **Add**, on next screen in search information type **Sue Thomas** , select **full name** in Search By. Click on **search**. Select **Sue Thomas** and click **Ok**. Sue, as the **manager** of the finance department, must approve any exceptions.
10. Click **Submit**.
11. **Log out** of the IBM Security Identity Manager Administrative Console. Close **Firefox**.

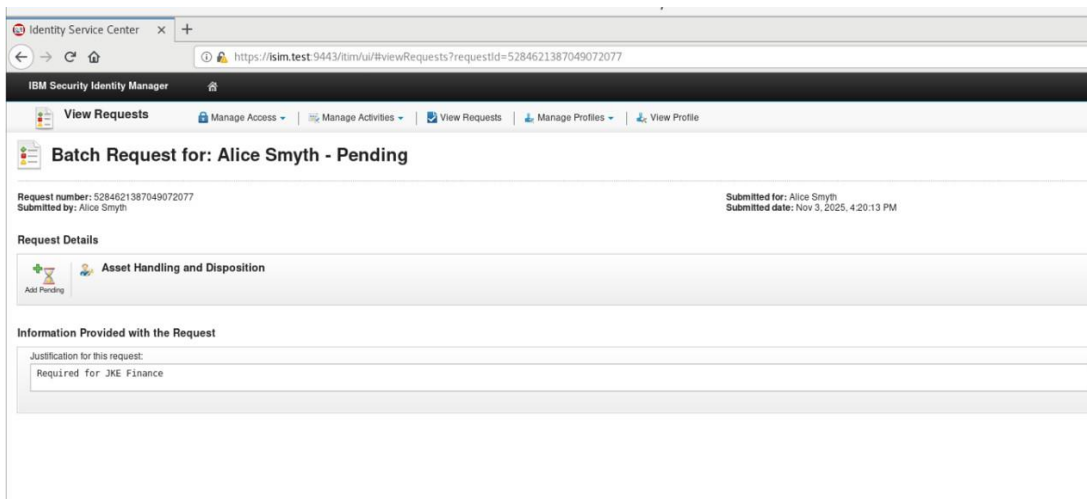


4.6 Exercise 6 – Approving a separation of duty policy violation

Alice Smyth is covering for another finance employee who is out on temporary medical leave. She requires access to several roles that violate a separation of duty policy. Alice requests role access through the IBM Security Identity Manager Identity Service Center (ISC) console.

1. **Restart** Firefox everytime you switch ISIM Console to ISC console. Open Firefox Enter the URL for the Identity Service Center (ISC) in Firefox:
https://isim.test:9443/itim/ui/Login.jsp or click the bookmark  ISIM ISC
2. Log on as Alice Smyth (**asmyth**) with password **P@ssw0rd**.
3. Click **Request Access** to request access to the **Asset Handling and Disposition** role by Clicking the role and Click **Next**. Provide justification – **Required for JKE Finance** and Click **Submit**.
4. Click on **Request New Access**, Request access to the **Booking and Ledgers by** Clicking the role . This action causes a violation for the Finance Department ABCs separation of duty  Alice Smyth  1  1
see the warning sign
5. Click the **Yellow** warning sign, you can see the details for the violation.
6. Click **Continue My Request** to request an exception. Provide justification – **Required for JKE Finance** and Click **Submit**.

7. **Log out** of the Identity Service Center.
8. Now, log in to the Identity Service Center as **Sue Thomas** and approve the separation of duty exception. **Log back** in as Sue Thomas (**sthomas**) with password **P@ssw0rd**.
9. Click on **My Activities**, on the right corner you can see Blue arrow  , Click the arrow and you can see the policy violation details
10. Provide Justification – **Approved for Alice**. Click **Approve** and Approve Alice's separation of duty rule violation.
11. **Log out** of the Self Service console. Close **Firefox**.



Identity Service Center x +

https://ism.test:9443/tim/ui/#viewRequests?requestId=5284621387049072077

IBM Security Identity Manager

View Requests | Manage Access | Manage Activities | View Requests | Manage Profiles | View Profile

Batch Request for: Alice Smyth - Pending

Request number: 5284621387049072077
Submitted by: Alice Smyth

Submitted for: Alice Smyth
Submitted date: Nov 3, 2025, 4:20:13 PM

Request Details

Asset Handling and Disposition

Add Pending

Information Provided with the Request

Justification for this request:

Required for JKE Finance

