

Institute of Computer Technology  
B. Tech Computer Science and Engineering

Sub: Identity and Access Management (2CSE507)

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Semester - 5

Class - A

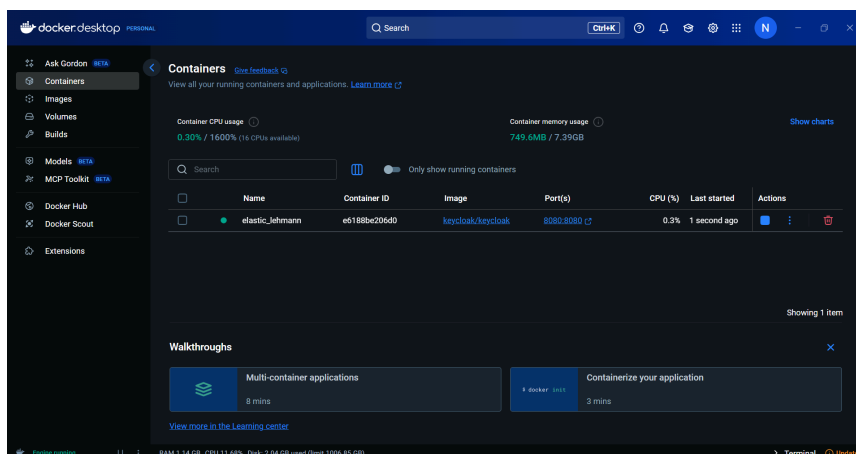
Batch – 52

**PRACTICAL NO:- 6**

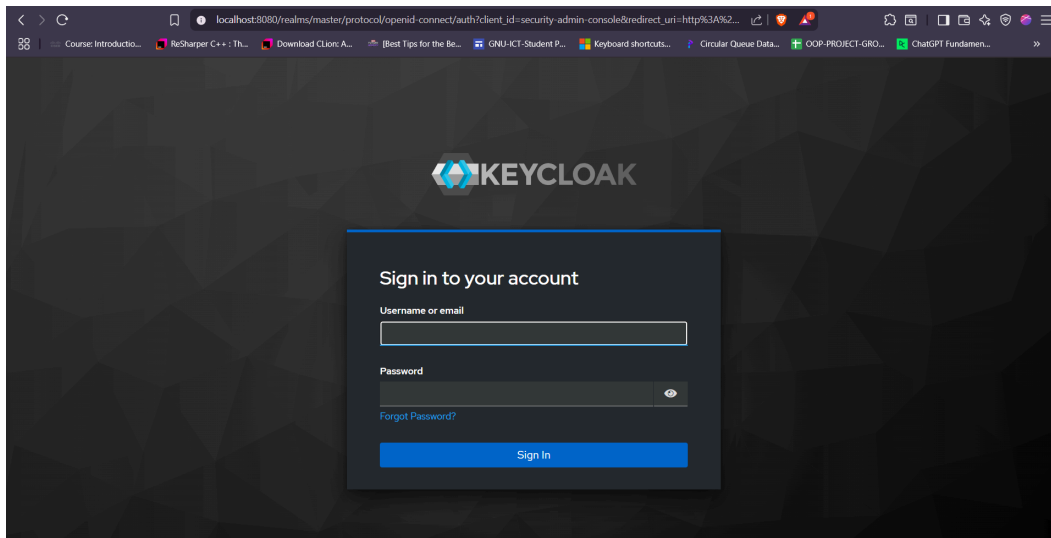
**Aim :** Creating a Realm and assigning admin role to users

**Starting the Container:**

- Open your Docker Desktop.
- In the containers tab, click the start button of the container you want to start.

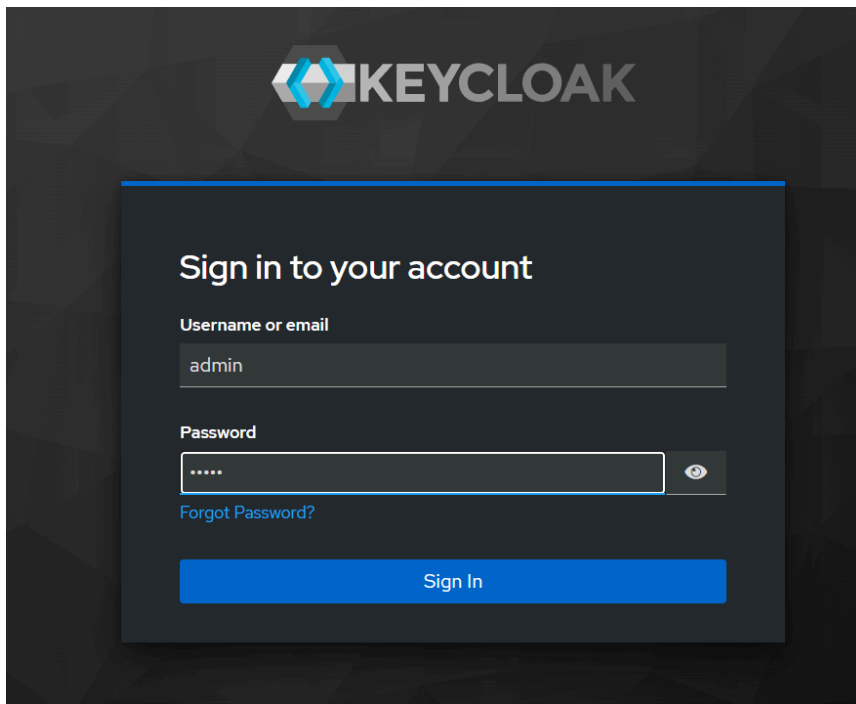


- Now open your browser and go to '<http://localhost:8080/>'.

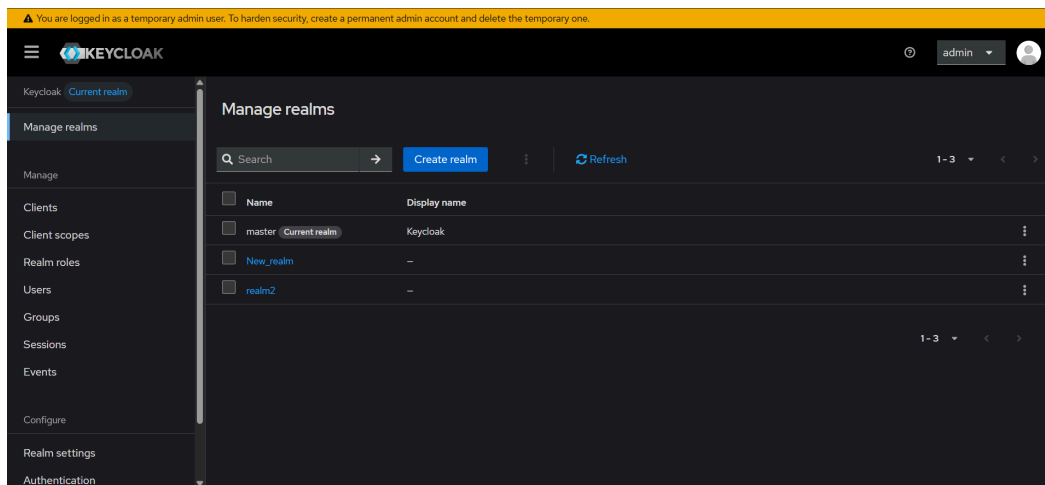


## Creating a new Realm:

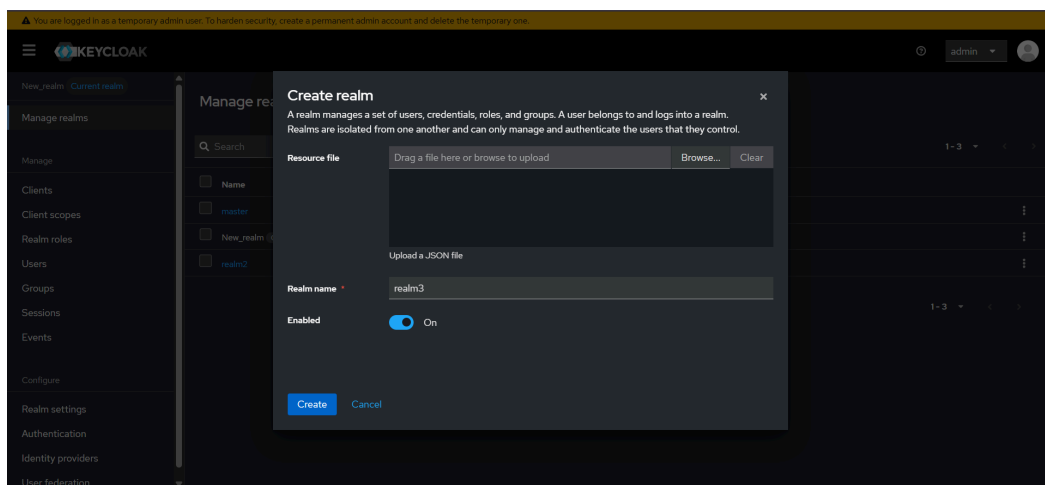
- Login as admin.



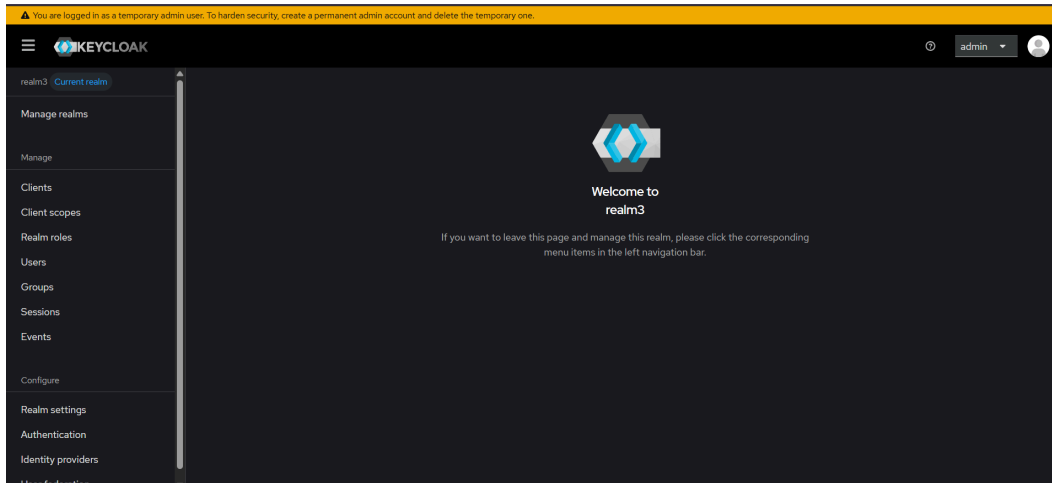
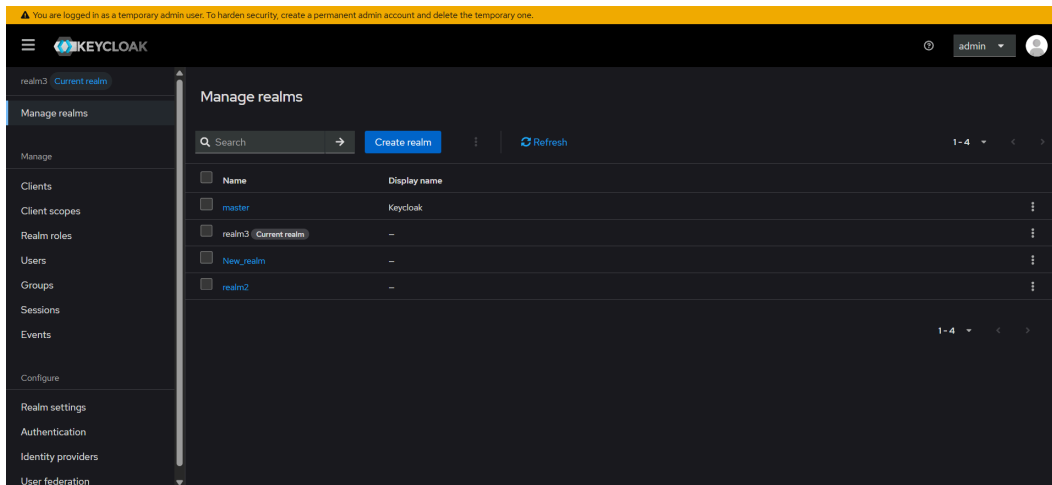
- Go to the 'Manage Realm' tab and click on 'Create realm'.



- Enter the realm name and create the realm.

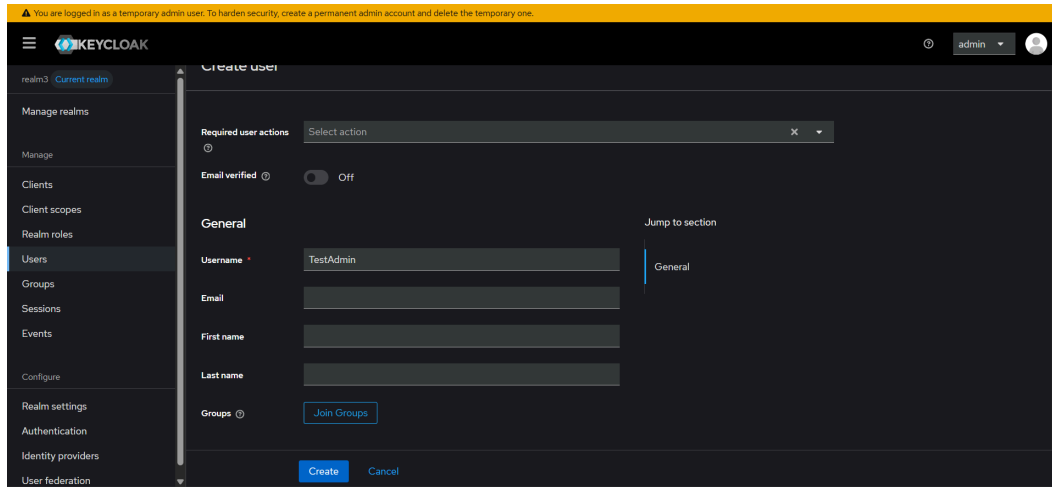


- To change between realms, in ‘Manage Realm’ tab, click on the realm name.

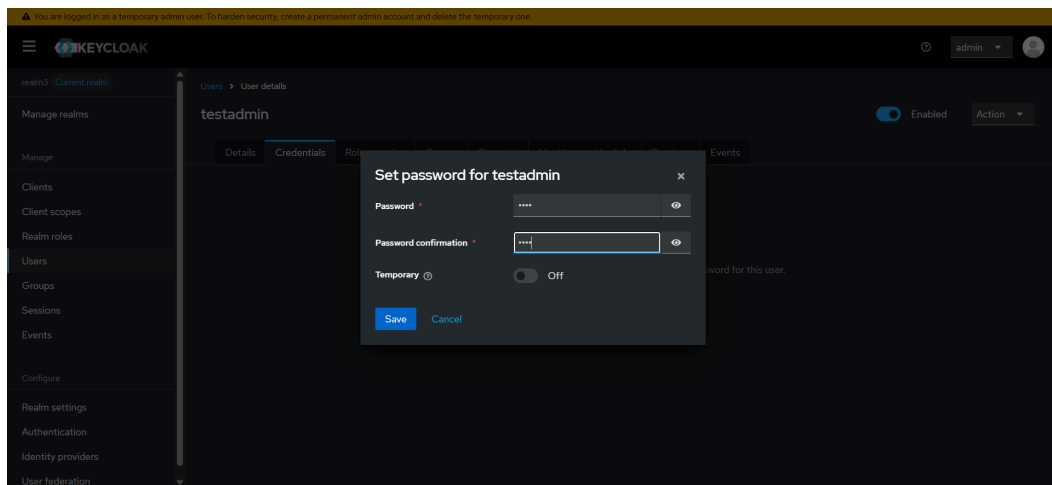


## Assigning Admin permissions:

- Create a new user, assign a password to the user and save the changes.

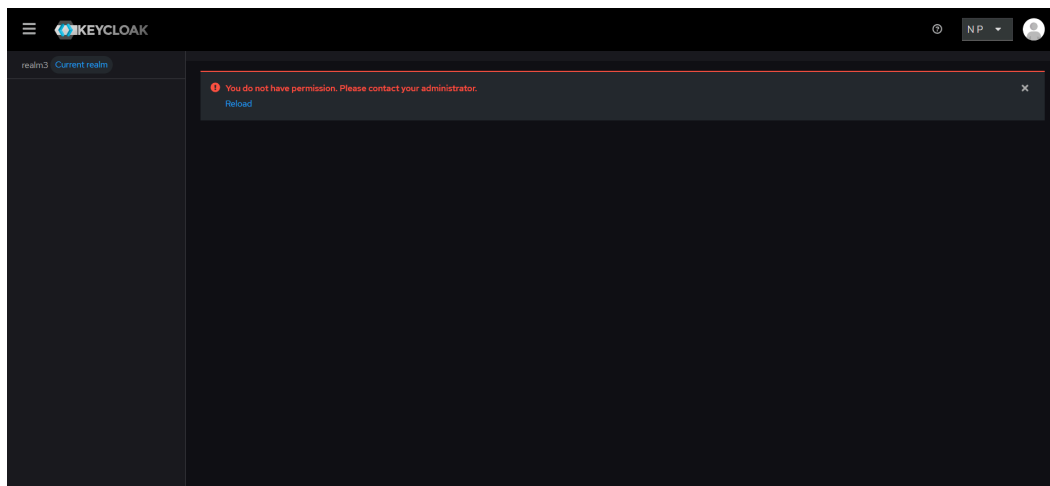
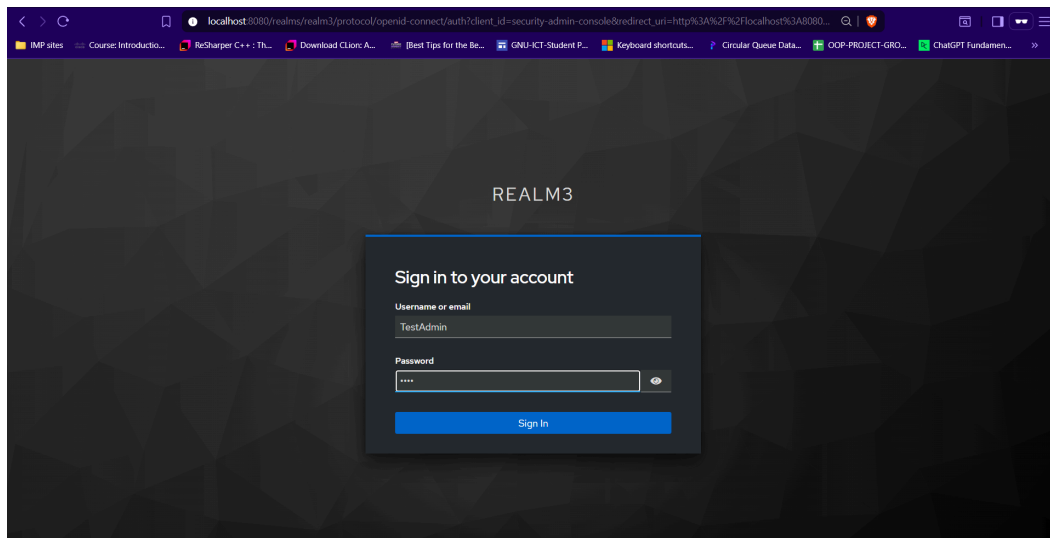


The screenshot shows the Keycloak 'Create user' form. At the top, a yellow warning banner states: 'You are logged in as a temporary admin user. To harden security, create a permanent admin account and delete the temporary one.' The left sidebar contains navigation links: Manage realms, Manage, Clients, Client scopes, Realm roles, Users (selected), Groups, Sessions, Events, Configure, Realm settings, Authentication, Identity providers, and User federation. The main form area is titled 'Create user' and includes a 'Required user actions' dropdown set to 'Select action'. Below this is an 'Email verified' toggle switch set to 'Off'. The 'General' section contains input fields for 'Username' (filled with 'TestAdmin'), 'Email', 'First name', and 'Last name'. A 'Join Groups' button is located below the 'Groups' label. A 'Jump to section' dropdown is set to 'General'. At the bottom of the form are 'Create' and 'Cancel' buttons.

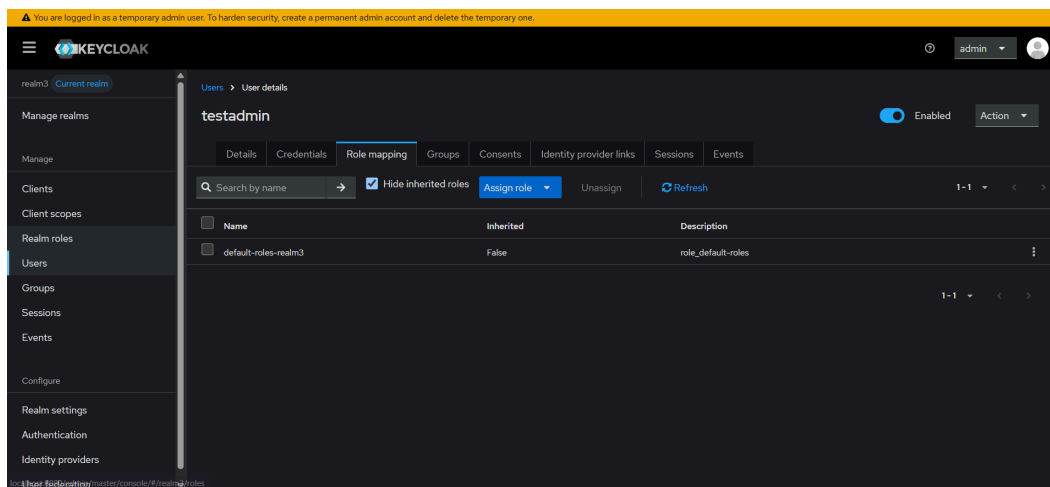


The screenshot shows the Keycloak 'User details' page for 'testadmin'. The user is 'Enabled'. A modal dialog titled 'Set password for testadmin' is open in the center. The dialog has fields for 'Password' and 'Password confirmation', both masked with dots. There is a 'Temporary' toggle switch set to 'Off'. At the bottom of the dialog are 'Save' and 'Cancel' buttons. The background shows the 'testadmin' user details page with tabs for 'Details', 'Credentials', 'Roles', 'Sessions', and 'Events'.

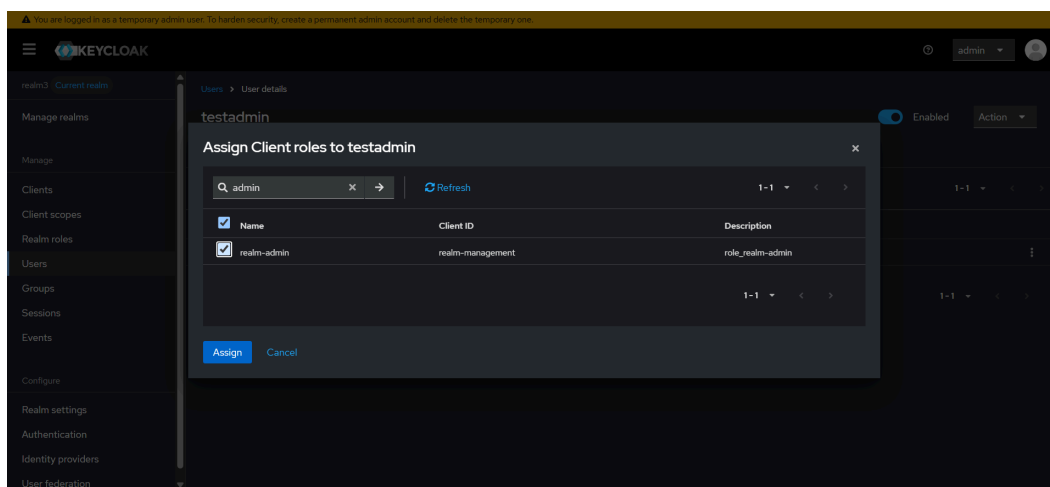
- Now, in another browser, open localhost:8080 and change to the realm in which you just created the user and login as the user.



- Now, change back to the browser on which you were logged-in as admin and go to the 'role mapping' tab of the user in the 'users' tab.



- Click on 'Assign Role', choose client roles and select 'realm-admin' role and click on assign.



- Now, switch back to the browser with the user, that you created above, is logged-in, and reload the page and you will see that the user will have access to all admin abilities like creating users, creating groups, etc. limited to that realm.

