Tutorial "Trusted Federated Identity Management in Services and SDN"

Slides for demonstration steps

Hands-on

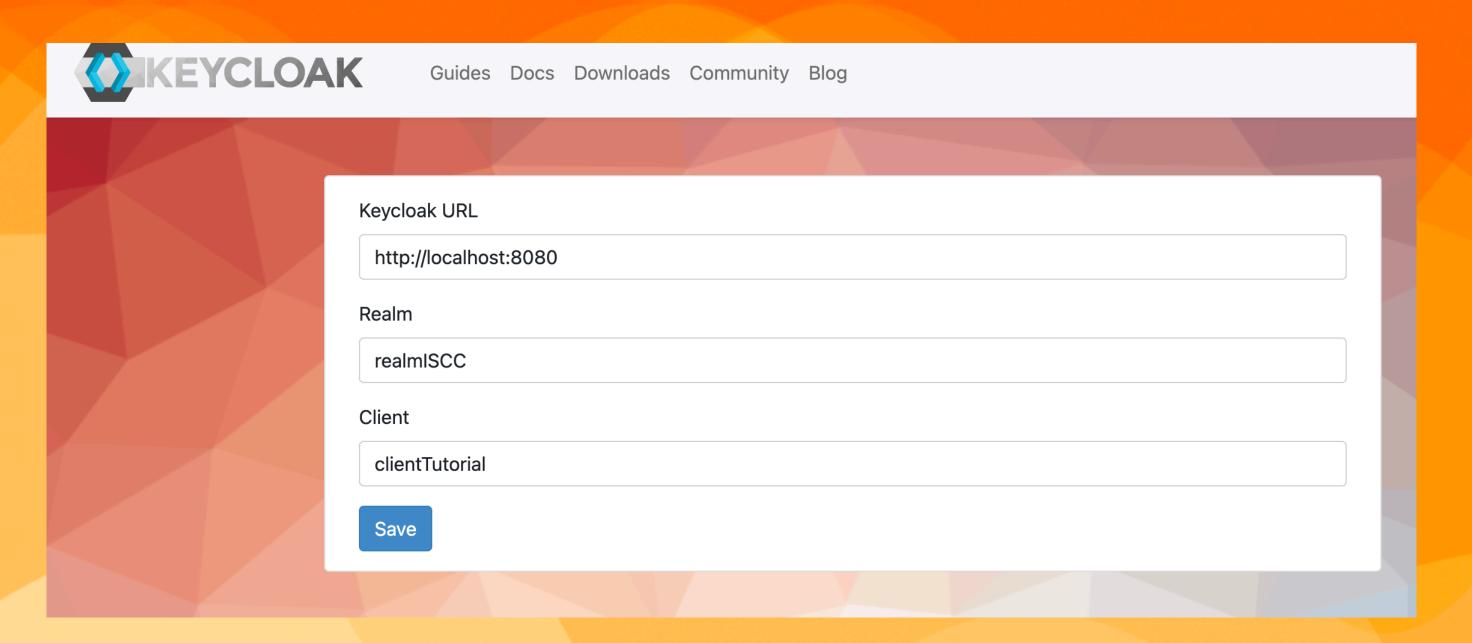
- Introduce Keycloak
- Perform configurations of an OIDC client for a Sample Application
- Sample Application based on the example provided in the official site of Keycloak:
 - https://www.keycloak.org/app/
- Files available at the GitHub repository:
 - https://github.com/bmsousa/tutorial-ISCC2022

Initial (reproducible) steps

- 1. Assure you have docker desktop installed, download on docker.com and go for a docker personal subscription
- 2. Clone repository for tutorial
- 3. Run the Keycloak daemon "*runKeycloak.sh*" (to download key cloak image
- 4. Access admin console using url: http://localhost:8080
- 5. Choose Admin Console option

Initial (reproducible) steps

- 1. On your browser open the page with the application:
 - https://www.keycloak.org/app/



Access Admin console of Keycloak

- 1. Access admin console using url: http://localhost:8080
- 2. Choose Administration Console option

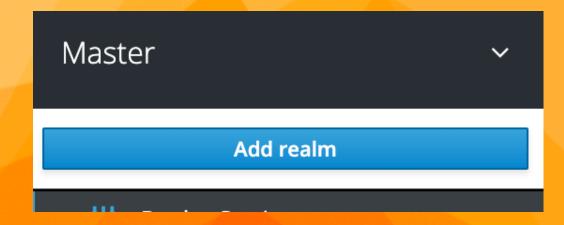


Centrally manage all aspects of the Keycloak server

Let's put (the basis) working

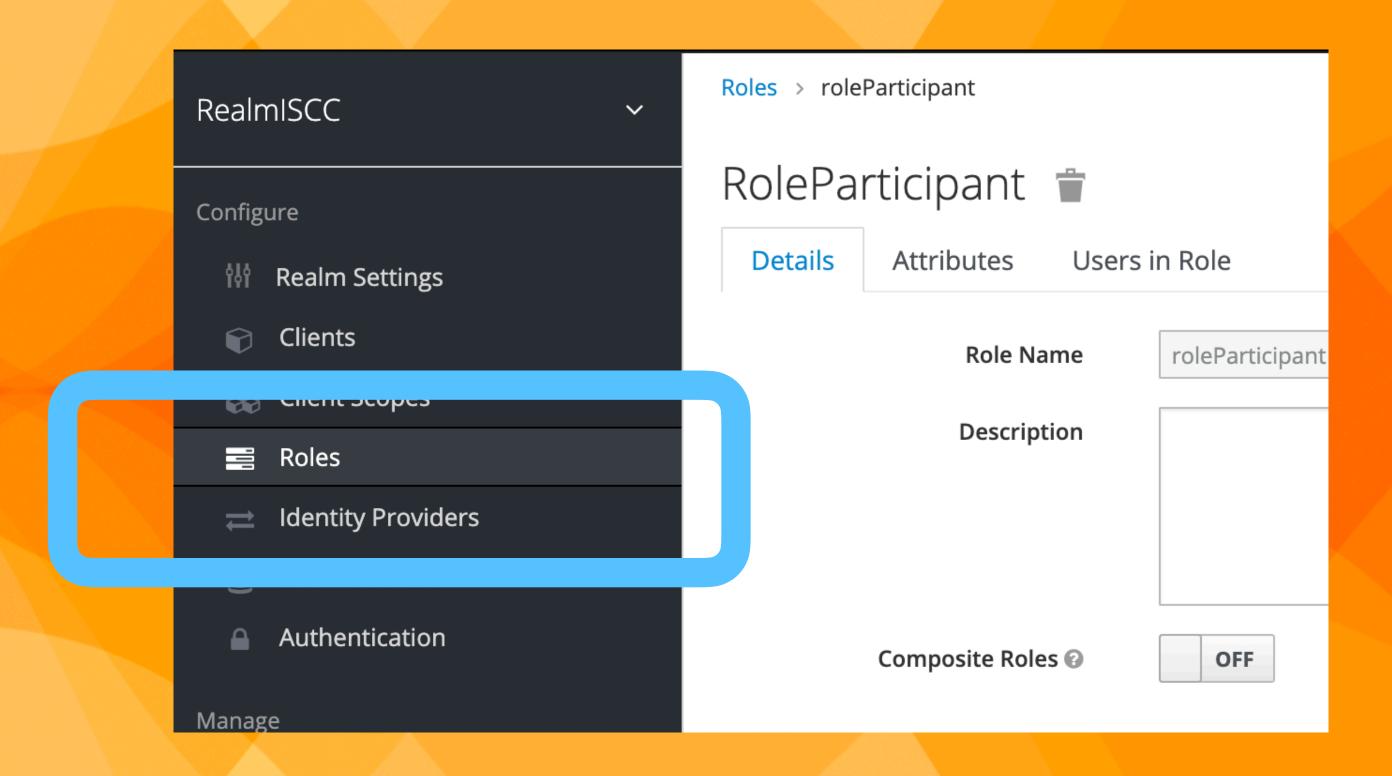
- Goals:
 - Create the required realm "realmISCC" and role
 "roleParticipant" in keycloak
 - Register the application as a client of Keycloak

Create a realm

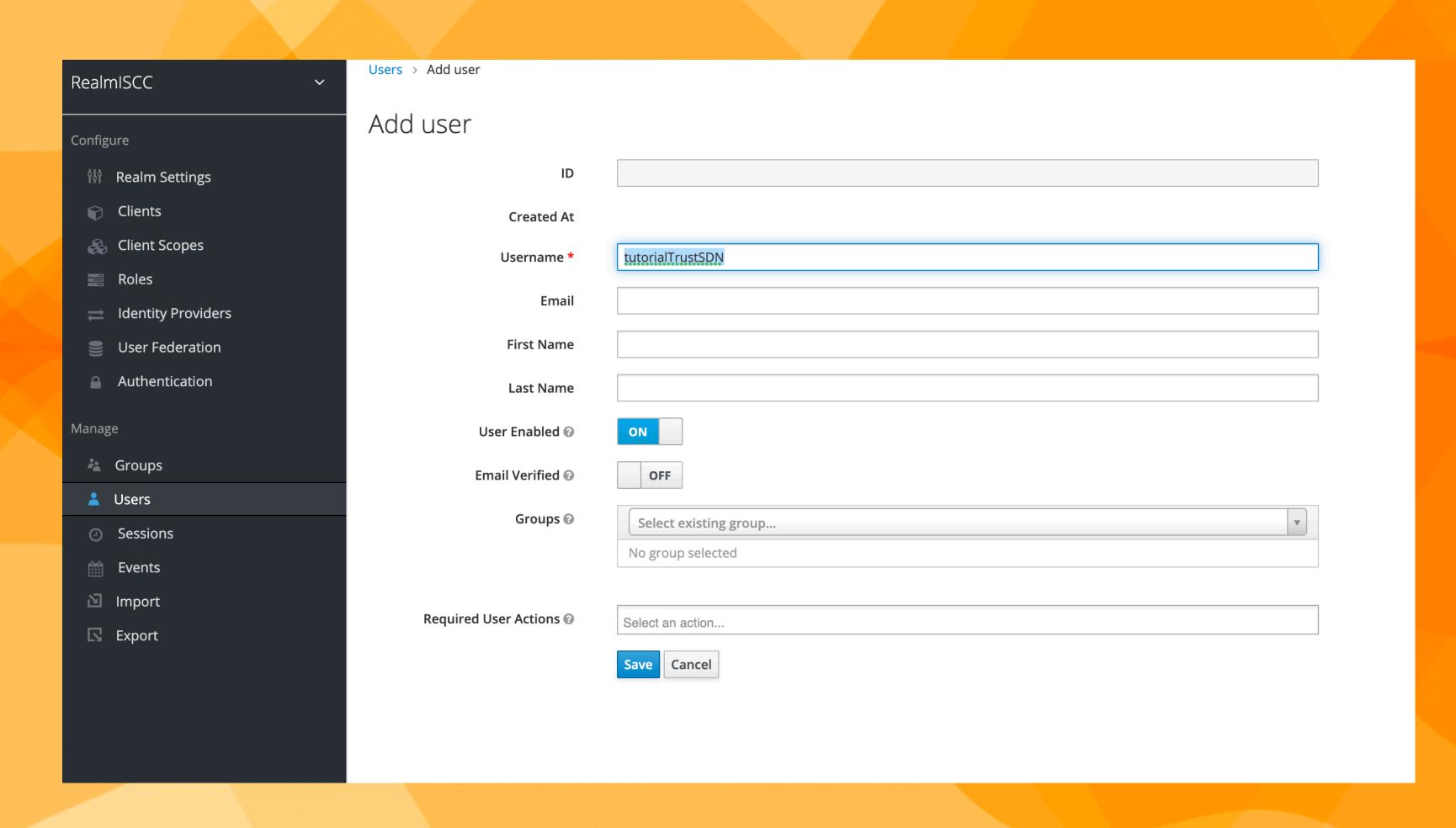


| RealmISCC ~ | RealmISCC = | | |
|----------------------------|-----------------------|---|-------------------|
| Configure | General Login Keys | Email Themes Localization Cache Tokens Client Registration Client Policies | Security Defenses |
| ₩ Realm Settings | * Name | realmISCC | |
| Clients | Display name | |] |
| Client Scopes | Display Haine | | _ |
| Roles | HTML Display name | | |
| □ Identity Providers | Frontend URL 🕜 | | |
| User Federation | Enabled ② | ON CONTRACTOR OF THE PROPERTY | |
| Authentication | User-Managed Access 😯 | OFF | |
| Manage | Oser-Manageu Access | OFF | |
| | Endpoints ② | OpenID Endpoint Configuration | |
| 🚣 Groups | | SAML 2.0 Identity Provider Metadata | |
| Users | | Save Cancel | |
| Sessions | | WHITE WILLIAM | |
| ## Events | | | |

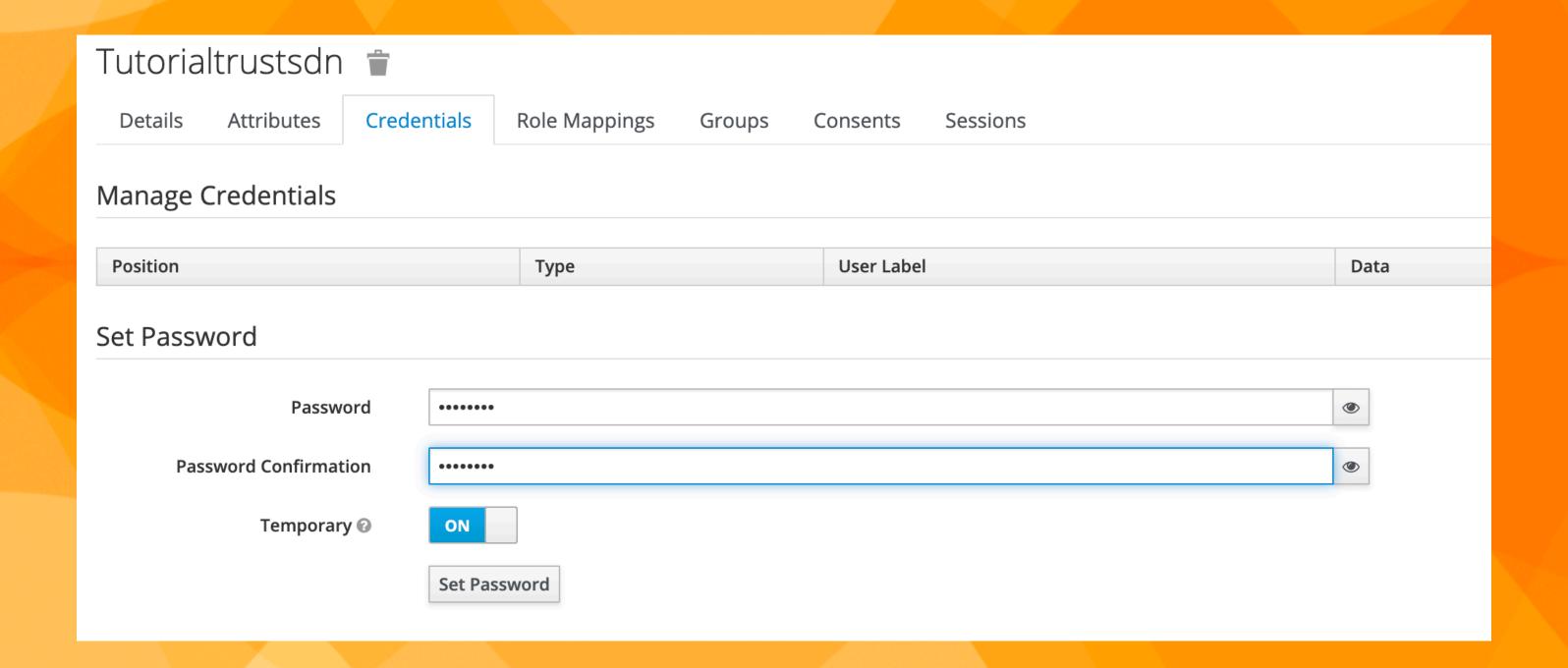
Role in Keycloak



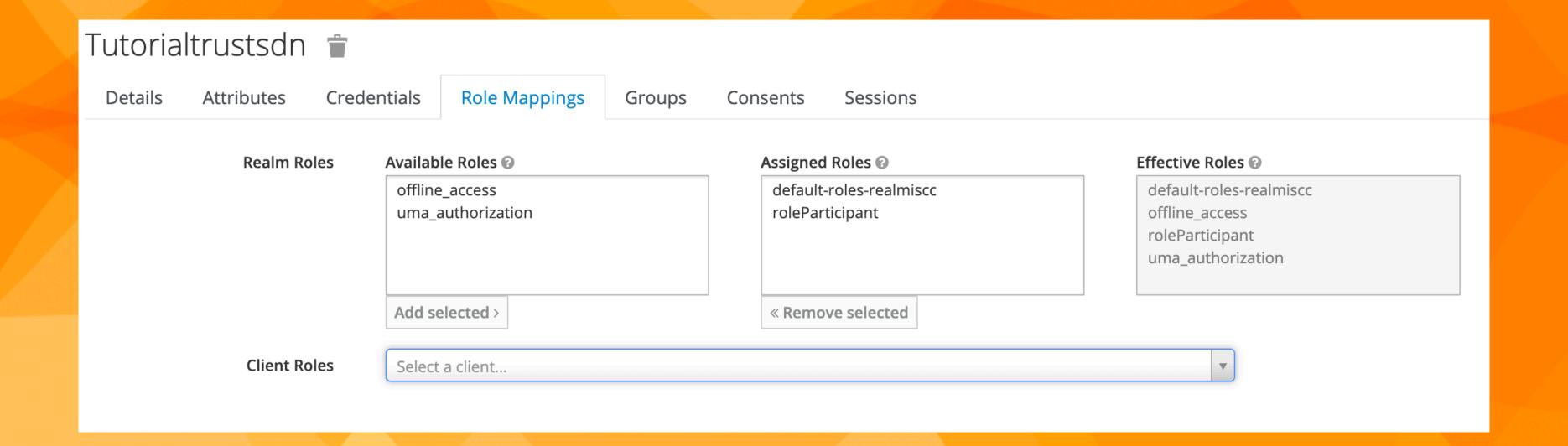
Create User "tutorialTrustSDN" in Keycloak



Define a password for User "tutorialTrustSDN" in Keycloak



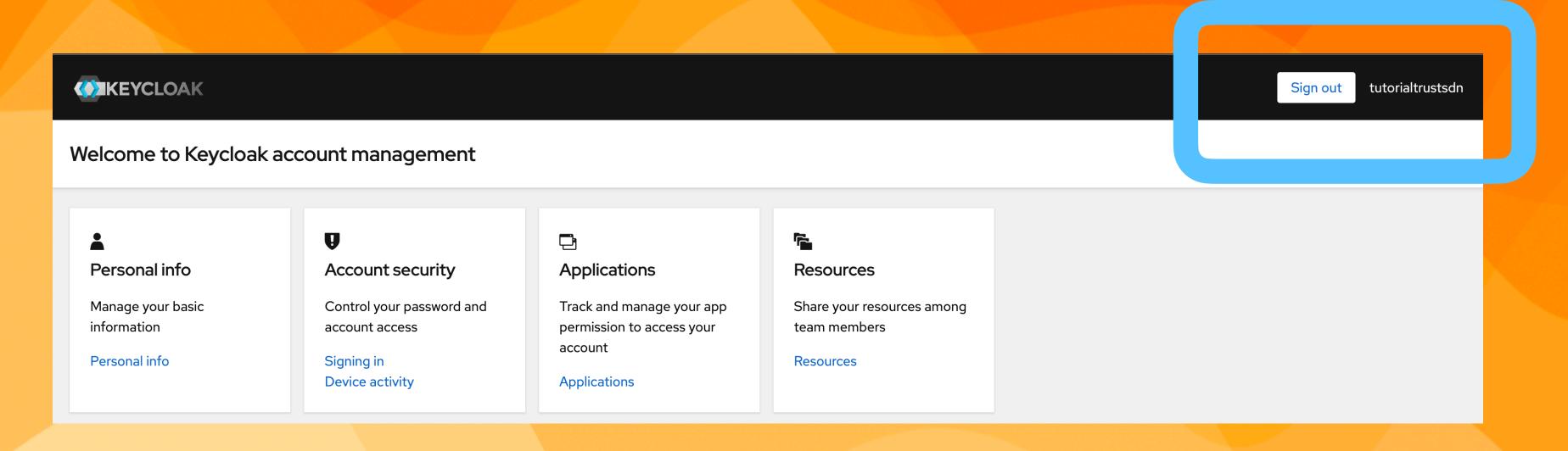
Associate role "roleParticipant" to User "tutorialTrustSDN" in Keycloak



Login with "tutorialTrustSDN" in Keycloak

Login using URL:

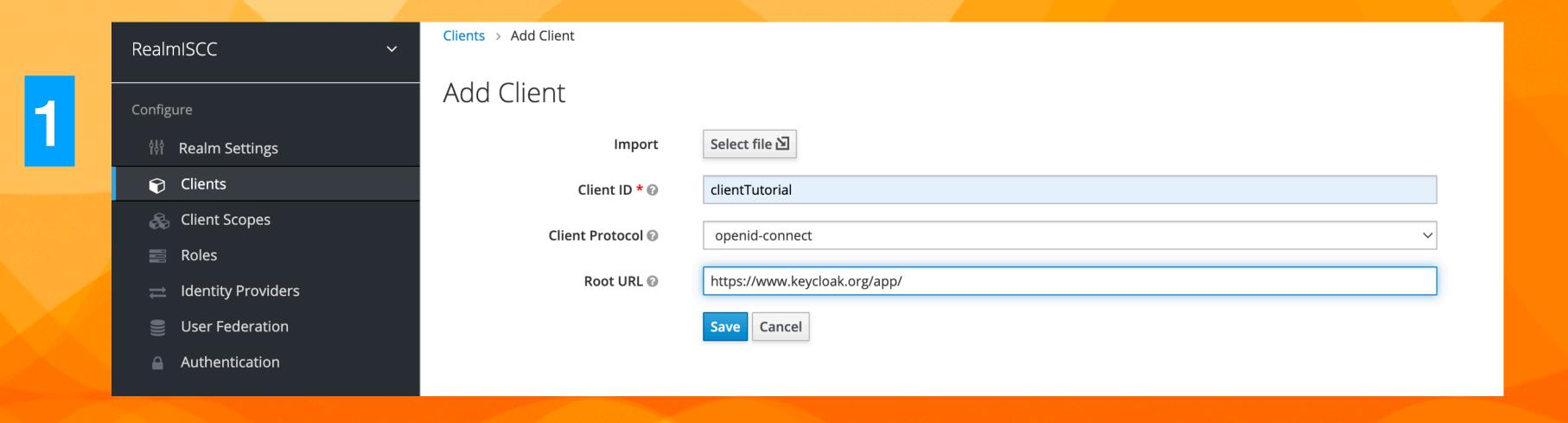
- http://localhost:8080/realms/realmISCC/account/#/
- Note: First login should ask to change password



Sample Application working with login

- Goals:
 - Register the application as a client of Keycloak "clientTutorial"

Create the clientTutorial



Need to specify the root URL

After Successful login

