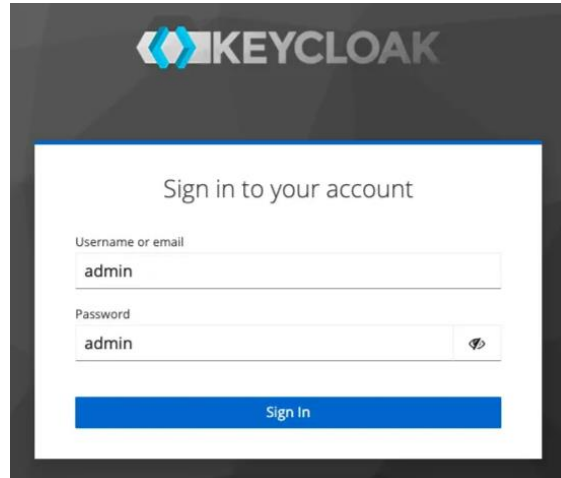


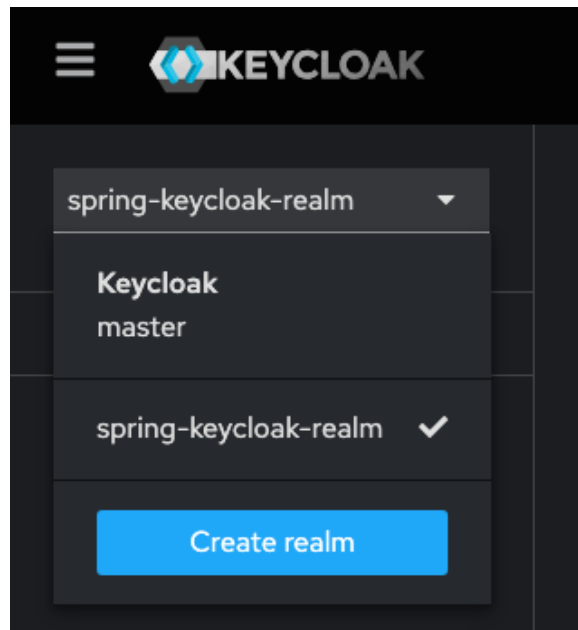
# Manual Configuración de Keycloak

Inicio de sesión en <http://localhost:8383> con usuario y contraseña [admin](#):



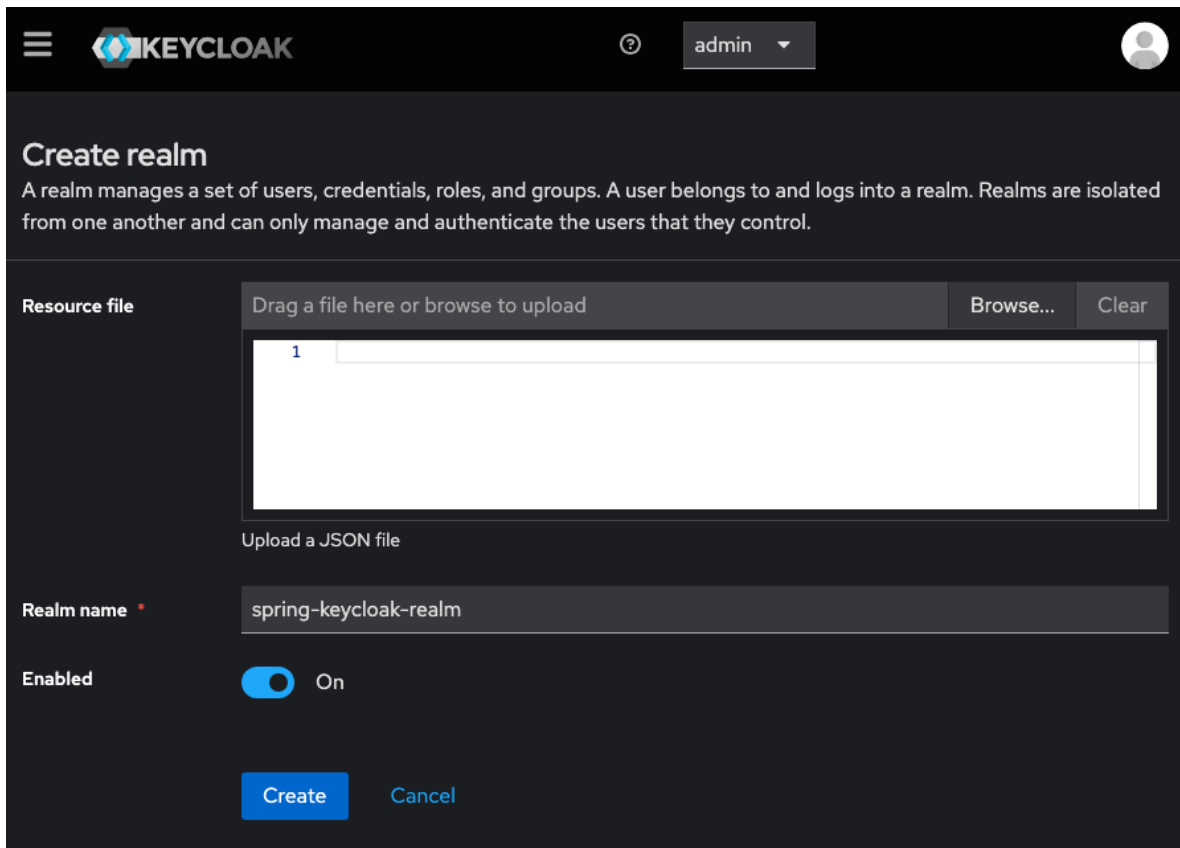
The image shows the Keycloak login page. At the top, there is the Keycloak logo. Below it, the text "Sign in to your account" is centered. There are two input fields: "Username or email" with the value "admin" and "Password" with the value "admin". A "Sign In" button is located at the bottom of the form.

Crear un nuevo Realm o Reino:



The image shows the Keycloak realm creation page. At the top, there is a hamburger menu icon and the Keycloak logo. Below it, there is a dropdown menu with the text "spring-keycloak-realm". The dropdown is open, showing three options: "Keycloak master", "spring-keycloak-realm" (which is selected and has a checkmark), and "Create realm". A blue "Create realm" button is located at the bottom of the dropdown.

Ponerle de nombre `spring-keycloak-realm` .

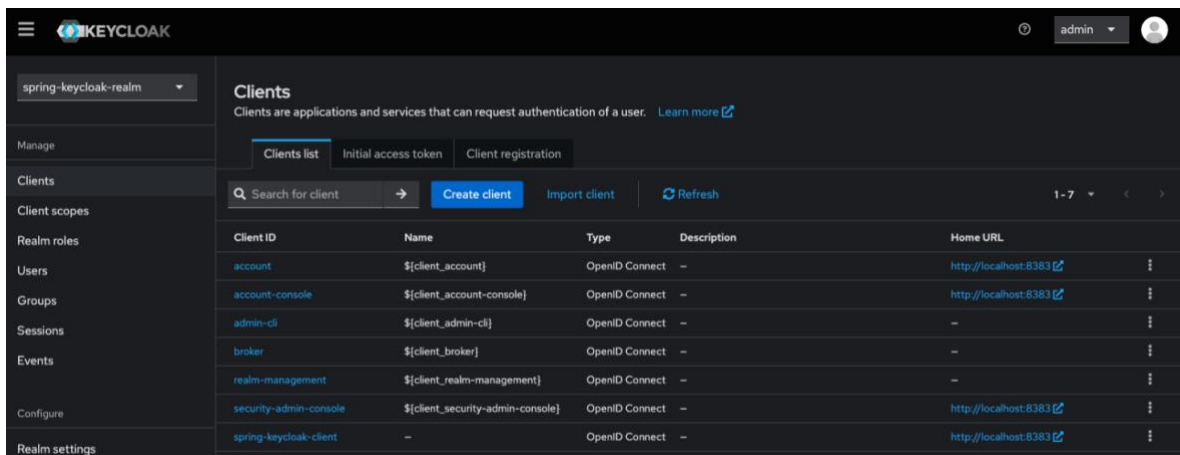


The image shows the 'Create realm' screen in the Keycloak Admin Console. The page has a dark theme. At the top, there's a navigation bar with the Keycloak logo, a help icon, and a user profile dropdown labeled 'admin'. Below the navigation bar, the title 'Create realm' is followed by a descriptive paragraph: 'A realm manages a set of users, credentials, roles, and groups. A user belongs to and logs into a realm. Realms are isolated from one another and can only manage and authenticate the users that they control.'

The main content area contains several form elements:

- Resource file:** A section with a text input field containing '1', a 'Browse...' button, and a 'Clear' button. Below it is a large empty rectangular area for uploading a JSON file.
- Realm name:** A text input field with the value 'spring-keycloak-realm' and a red asterisk indicating it's required.
- Enabled:** A toggle switch that is currently turned 'On'.
- Buttons:** At the bottom, there are two buttons: 'Create' (in blue) and 'Cancel'.

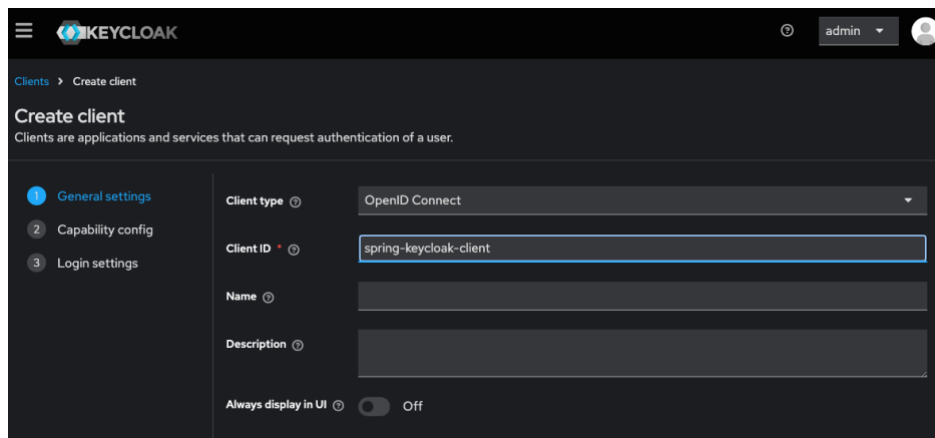
Crear un nuevo cliente sobre el Realm:



The image shows the 'Clients' screen in the Keycloak Admin Console. The left sidebar shows the navigation menu with 'Clients' selected. The main content area has a title 'Clients' and a subtitle 'Clients are applications and services that can request authentication of a user.' followed by a 'Learn more' link. Below the subtitle are three tabs: 'Clients list' (active), 'Initial access token', and 'Client registration'. There's a search bar and buttons for 'Create client', 'Import client', and 'Refresh'. A table lists the existing clients.

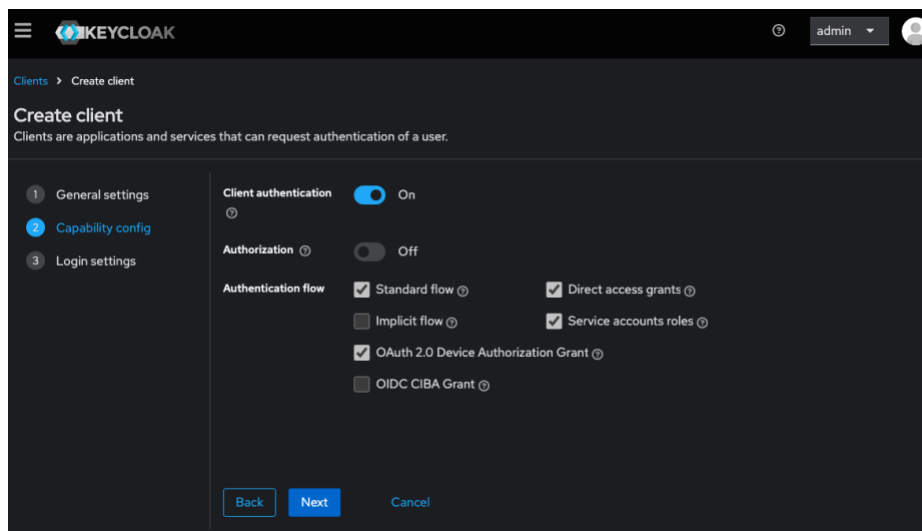
Client ID	Name	Type	Description	Home URL
account	\$(client_account)	OpenID Connect	-	<a href="http://localhost:8383">http://localhost:8383</a>
account-console	\$(client_account-console)	OpenID Connect	-	<a href="http://localhost:8383">http://localhost:8383</a>
admin-cli	\$(client_admin-cli)	OpenID Connect	-	-
broker	\$(client_broker)	OpenID Connect	-	-
realm-management	\$(client_realm-management)	OpenID Connect	-	-
security-admin-console	\$(client_security-admin-console)	OpenID Connect	-	<a href="http://localhost:8383">http://localhost:8383</a>
spring-keycloak-client	-	OpenID Connect	-	<a href="http://localhost:8383">http://localhost:8383</a>

Configurar el cliente con los siguientes valores:



The screenshot shows the 'Create client' form in Keycloak, specifically the 'General settings' tab. The form is titled 'Create client' with a subtitle 'Clients are applications and services that can request authentication of a user.' The left sidebar shows three tabs: 'General settings' (selected), 'Capability config', and 'Login settings'. The main content area contains the following fields and controls:

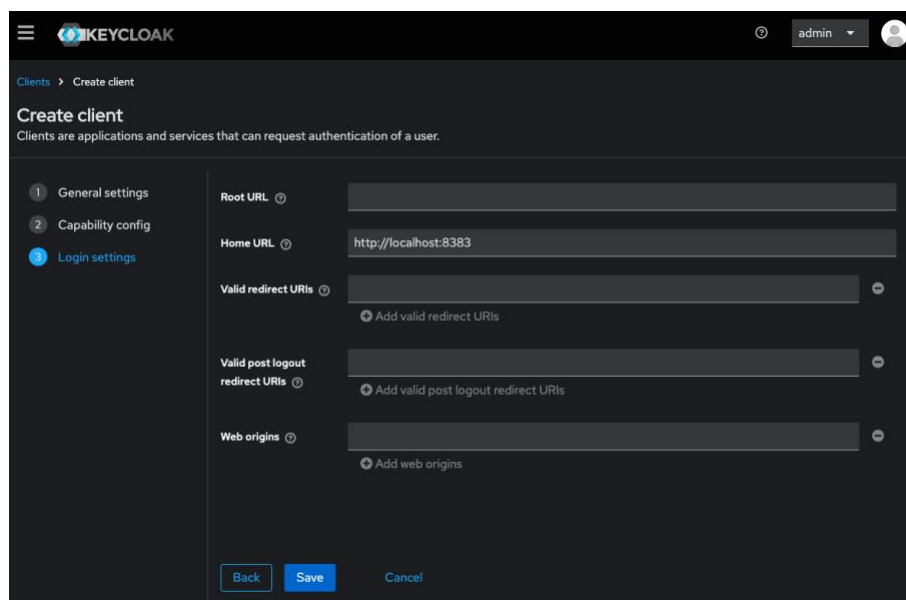
- Client type**: A dropdown menu set to 'OpenID Connect'.
- Client ID**: A text input field containing 'spring-keycloak-client'.
- Name**: An empty text input field.
- Description**: An empty text input field.
- Always display in UI**: A toggle switch set to 'Off'.



The screenshot shows the 'Create client' form in Keycloak, specifically the 'Capability config' tab. The left sidebar shows three tabs: 'General settings', 'Capability config' (selected), and 'Login settings'. The main content area contains the following fields and controls:

- Client authentication**: A toggle switch set to 'On'.
- Authorization**: A toggle switch set to 'Off'.
- Authentication flow**: A section with several checkboxes:
  - ☒ Standard flow
  - ☒ Direct access grants
  - ☐ Implicit flow
  - ☒ Service accounts roles
  - ☒ OAuth 2.0 Device Authorization Grant
  - ☐ OIDC CIBA Grant

At the bottom of the form, there are three buttons: 'Back', 'Next', and 'Cancel'.



The screenshot shows the 'Create client' form in Keycloak, specifically the 'Login settings' tab. The left sidebar shows three tabs: 'General settings', 'Capability config', and 'Login settings' (selected). The main content area contains the following fields and controls:

- Root URL**: An empty text input field.
- Home URL**: A text input field containing 'http://localhost:8383'.
- Valid redirect URIs**: A text input field with a plus icon and the text 'Add valid redirect URIs' below it.
- Valid post logout redirect URIs**: A text input field with a plus icon and the text 'Add valid post logout redirect URIs' below it.
- Web origins**: A text input field with a plus icon and the text 'Add web origins' below it.

At the bottom of the form, there are three buttons: 'Back', 'Save', and 'Cancel'.

Obtener el **Client Secret** del cliente configurado. En este ejemplo se utilizará el siguiente valor:

**iKCLONjcJKRUUriAlxNYRmZBlyQsj6f8**

The screenshot shows the Keycloak Admin Console interface. The left sidebar contains navigation links: Manage, Clients, Client scopes, Realm roles, Users, Groups, Sessions, Events, Configure, Realm settings, Authentication, Identity providers, and User federation. The main content area is titled 'Clients > Client details' and shows the configuration for 'spring-keycloak-client' (OpenID Connect). The 'Credentials' tab is selected, displaying the 'Client Authenticator' set to 'Client Id and Secret'. Below this, the 'Client Secret' is shown as 'iKCLONjcJKRUUriAlx...' with a 'Regenerate' button. The 'Registration access token' is also shown with a 'Regenerate' button. The client is currently 'Enabled'.

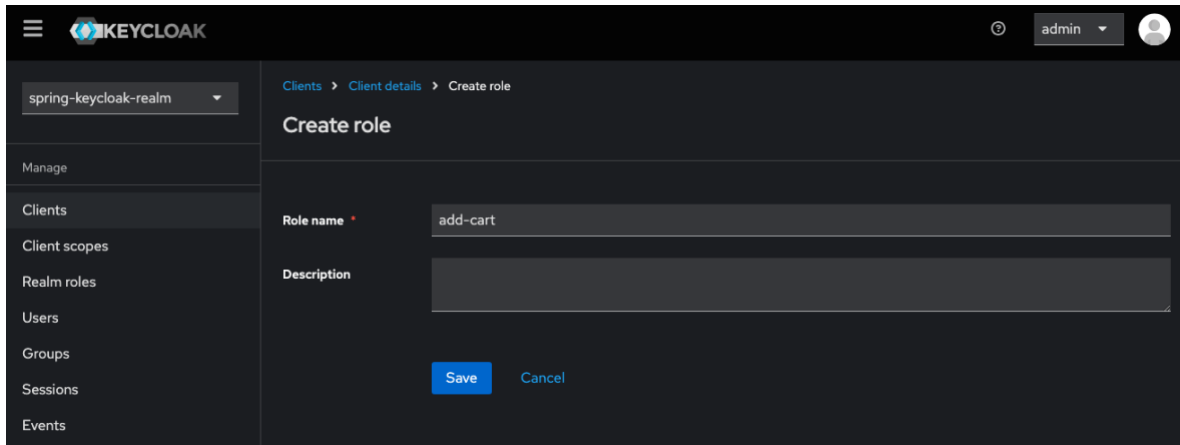
Crear roles para el cliente:

The screenshot shows the Keycloak Admin Console interface with the 'Roles' tab selected for the 'spring-keycloak-client'. It displays a table of roles with columns for 'Role name', 'Composite', and 'Description'. There are four roles listed: 'add-cart', 'empty-cart', 'view-cart', and 'view-products', all with 'Composite' set to 'False'. A 'Create role' button and a 'Refresh' button are visible above the table. The interface also includes a search bar and pagination controls.

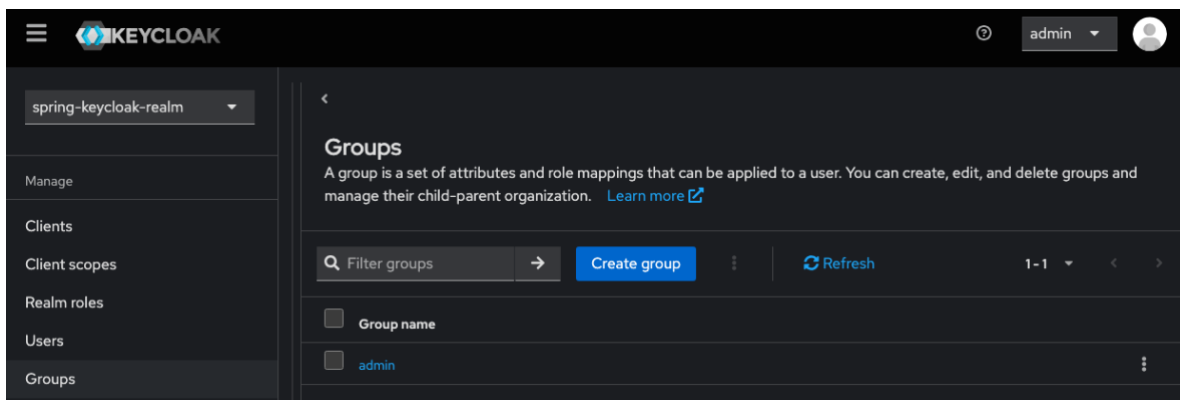
Role name	Composite	Description
add-cart	False	-
empty-cart	False	-
view-cart	False	-
view-products	False	-

Roles a crear:

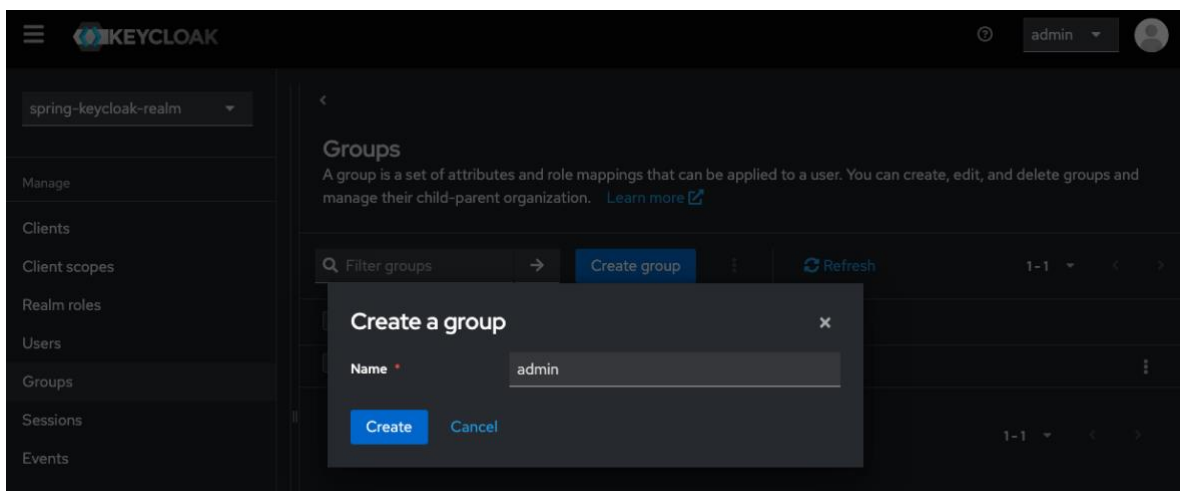
add-cart, empty-cart, view-cart y view-products .



Crear un nuevo grupo en el Realm



Nombre del grupo: admin .



Asignar todos los roles creados previamente al grupo.

The screenshot shows the Keycloak Admin Console interface. The left sidebar contains navigation links: Manage, Clients, Client scopes, Realm roles, Users, Groups (selected), Sessions, Events, Configure, Realm settings, and Authentication. The main content area is titled 'Admin' and shows the 'Role mapping' tab. It includes a search bar, a 'Hide inherited roles' checkbox (checked), and buttons for 'Assign role', 'Unassign', and 'Refresh'. Below this is a table with columns: Name, Inherited, and Description. The table lists four roles assigned to the 'Admin' group.

Name	Inherited	Description
spring-keycloak-client add-cart	False	-
spring-keycloak-client empty-cart	False	-
spring-keycloak-client view-cart	False	-
spring-keycloak-client view-products	False	-

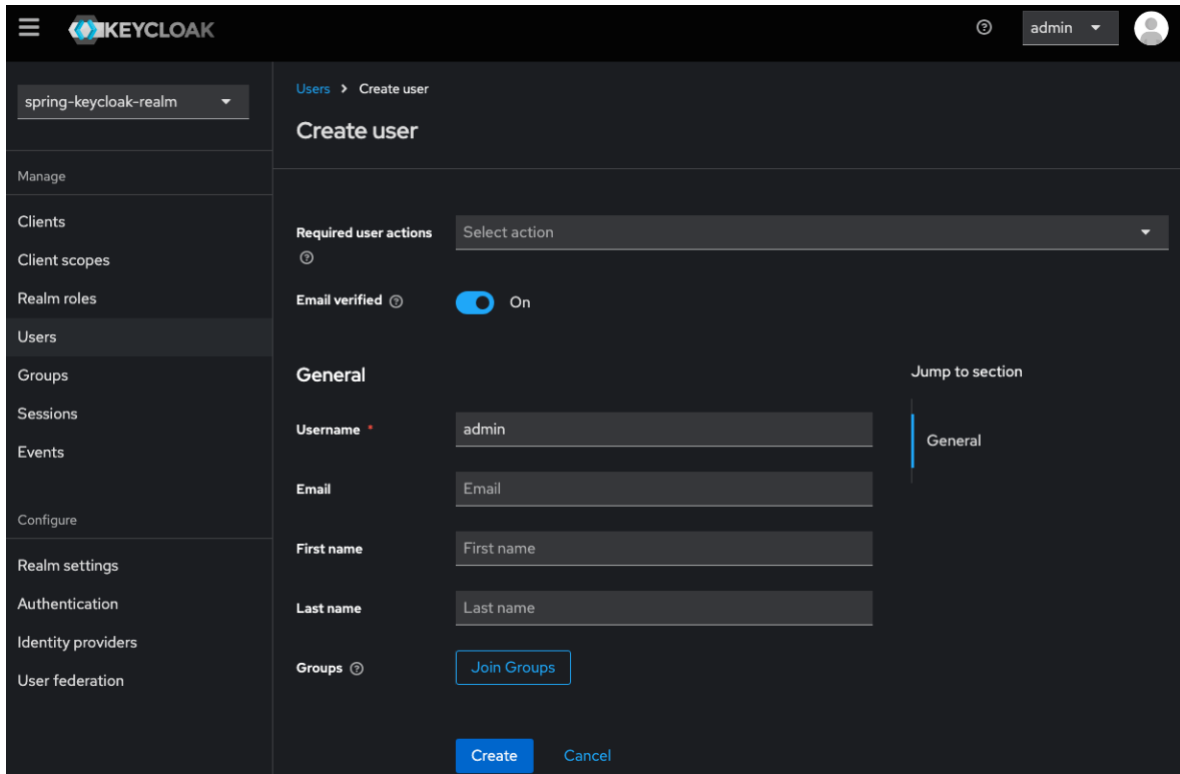
Crear nuevos usuarios:

The screenshot shows the Keycloak Admin Console interface for the 'Users' section. The left sidebar is the same as the previous screenshot, with 'Users' selected. The main content area is titled 'Users' and includes a subtitle: 'Users are the users in the current realm. Learn more'. Below this is a 'User list' tab, a search bar, and buttons for 'Add user', 'Delete user', and 'Refresh'. A table below shows a list of users.

Username	Email	Last name	First name
admin	-	-	-
user	-	-	-
userproduct	-	-	-

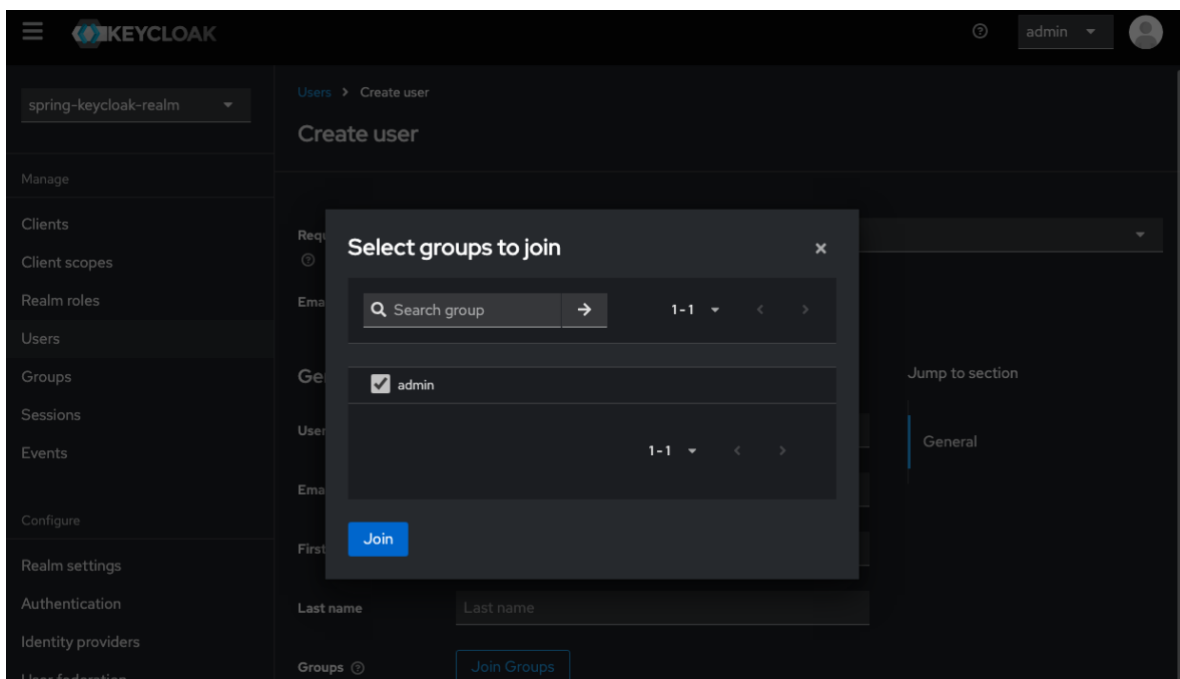
Usuario `admin`

Activar la opción `Email Verified` .



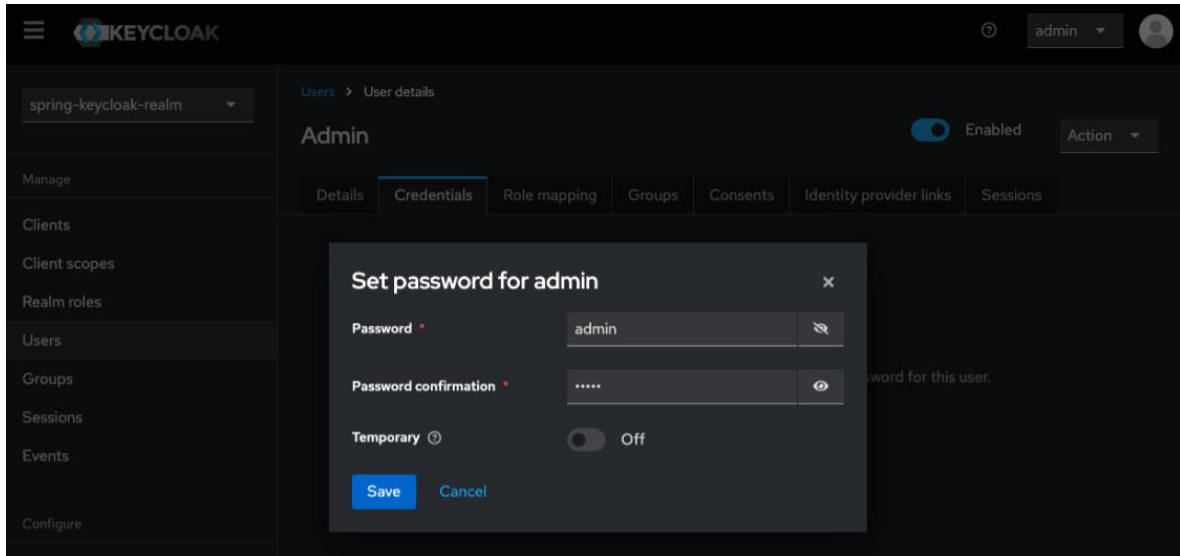
The screenshot shows the Keycloak 'Create user' interface. On the left is a sidebar with navigation links: Manage, Clients, Client scopes, Realm roles, Users (selected), Groups, Sessions, Events, Configure, Realm settings, Authentication, Identity providers, and User federation. The main area is titled 'Create user' and includes a 'Required user actions' dropdown set to 'Select action'. The 'Email verified' toggle is turned on. The 'General' section contains input fields for 'Username' (filled with 'admin'), 'Email', 'First name', and 'Last name'. Below these is a 'Groups' section with a 'Join Groups' button. At the bottom are 'Create' and 'Cancel' buttons. A 'Jump to section' sidebar on the right shows 'General' as the selected section.

Agregar al grupo `admin` para que tenga acceso a todos los roles: `add-cart` , `empty-cart` , `viewcart` y `view-products` .

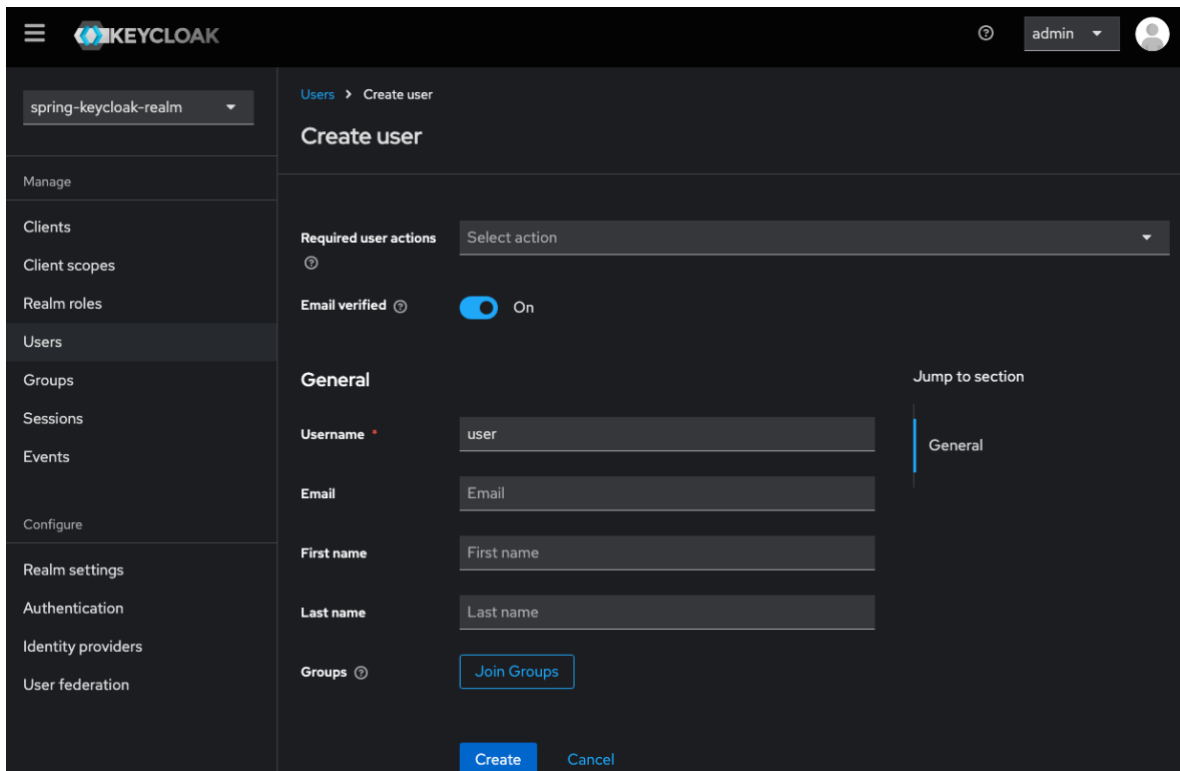


This screenshot shows the same 'Create user' form as before, but with a modal dialog titled 'Select groups to join' open in the foreground. The modal has a search bar with the text 'Search group' and a list of groups. The 'admin' group is checked with a checkbox. Below the list is a 'Join' button. The background form is partially obscured by the modal.

Asignarle Contraseña: `admin` .

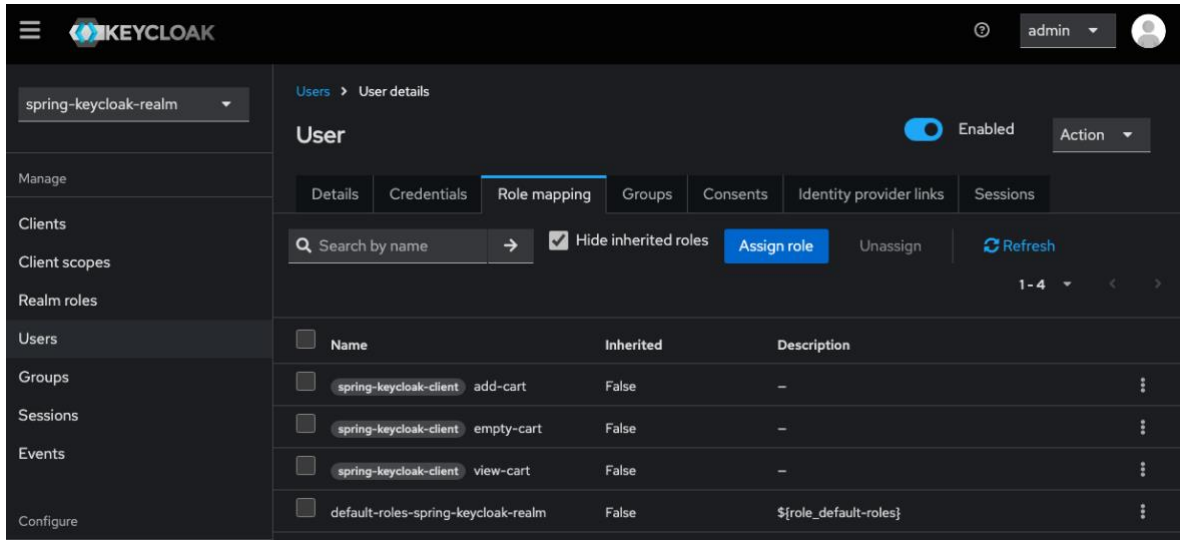


Usuario `user` :  
Activar la opción `Email Verified` .





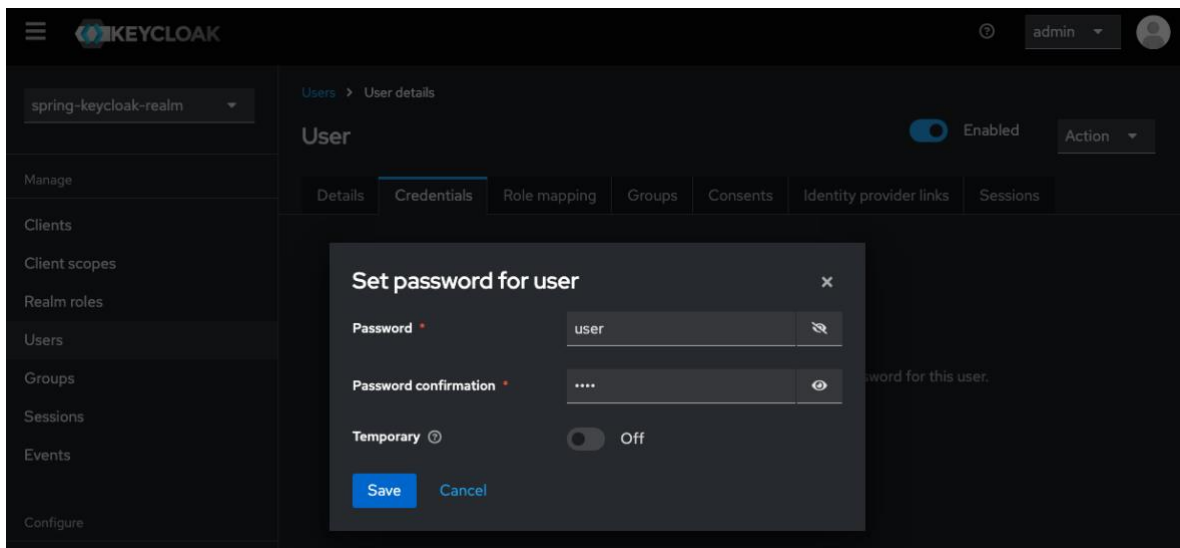
Asignar directamente los roles: `add-cart`, `empty-cart`, `view-cart`.



The screenshot shows the Keycloak administration console. On the left is a sidebar with navigation links: Manage, Clients, Client scopes, Realm roles, Users, Groups, Sessions, Events, and Configure. The main area is titled 'Users > User details' and shows a 'User' profile. The 'Role mapping' tab is selected, displaying a table of roles assigned to the user. The user is 'Enabled'. The table has columns for 'Name', 'Inherited', and 'Description'. The roles listed are 'spring-keycloak-client add-cart', 'spring-keycloak-client empty-cart', 'spring-keycloak-client view-cart', and 'default-roles-spring-keycloak-realm'.

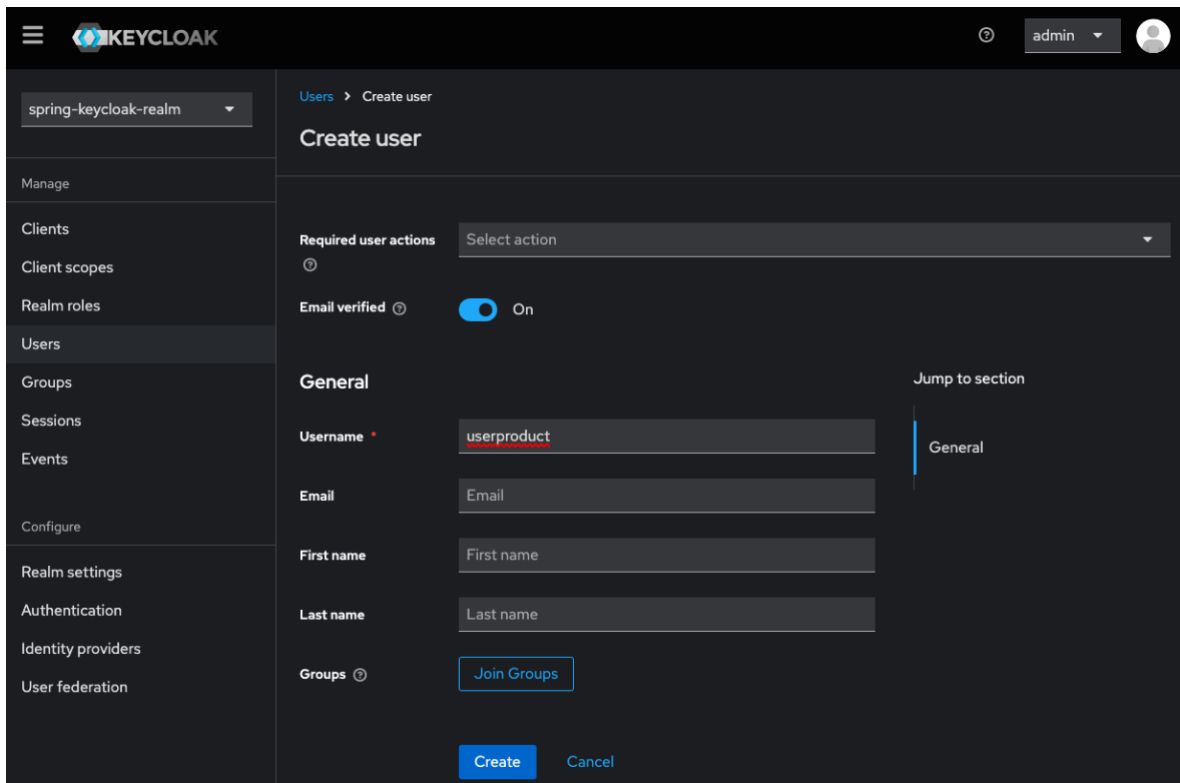
Name	Inherited	Description
spring-keycloak-client add-cart	False	-
spring-keycloak-client empty-cart	False	-
spring-keycloak-client view-cart	False	-
default-roles-spring-keycloak-realm	False	\${role_default-roles}

Asignarle Contraseña: `user`.



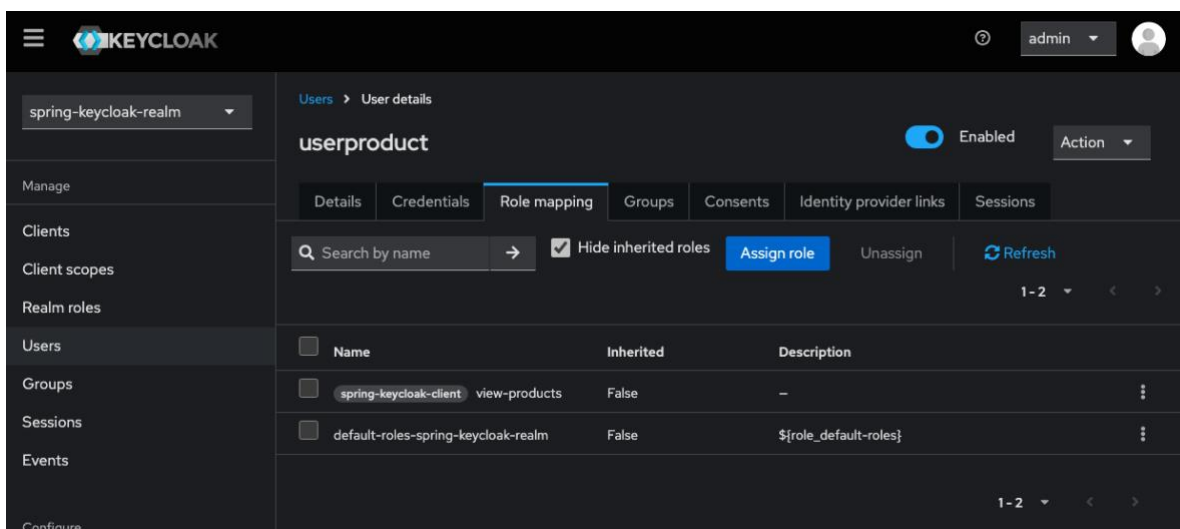
The screenshot shows the 'Set password for user' dialog box in the Keycloak administration console. The dialog has fields for 'Password' (set to 'user'), 'Password confirmation' (set to '....'), and a 'Temporary' toggle switch (set to 'Off'). There are 'Save' and 'Cancel' buttons at the bottom. The background shows the 'User' details page with the 'Credentials' tab selected.

Usuario `userproduct` :  
Activar la opción `Email Verified`.



The screenshot shows the 'Create user' page in Keycloak. The left sidebar contains navigation links: Manage, Clients, Client scopes, Realm roles, Users, Groups, Sessions, Events, Configure, Realm settings, Authentication, Identity providers, and User federation. The main content area is titled 'Create user' and includes a 'Required user actions' dropdown set to 'Select action'. The 'Email verified' toggle is turned on. The 'General' section has input fields for 'Username' (filled with 'userproduct'), 'Email', 'First name', and 'Last name'. There is a 'Join Groups' button and 'Create' and 'Cancel' buttons at the bottom.

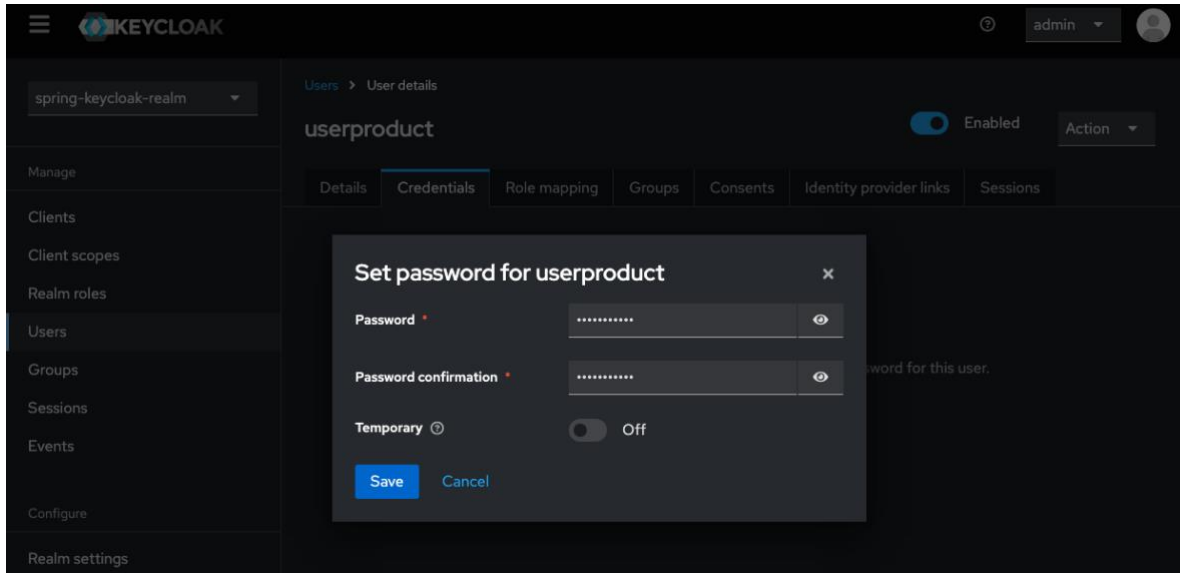
Asignar directamente el rol: `view-products`.



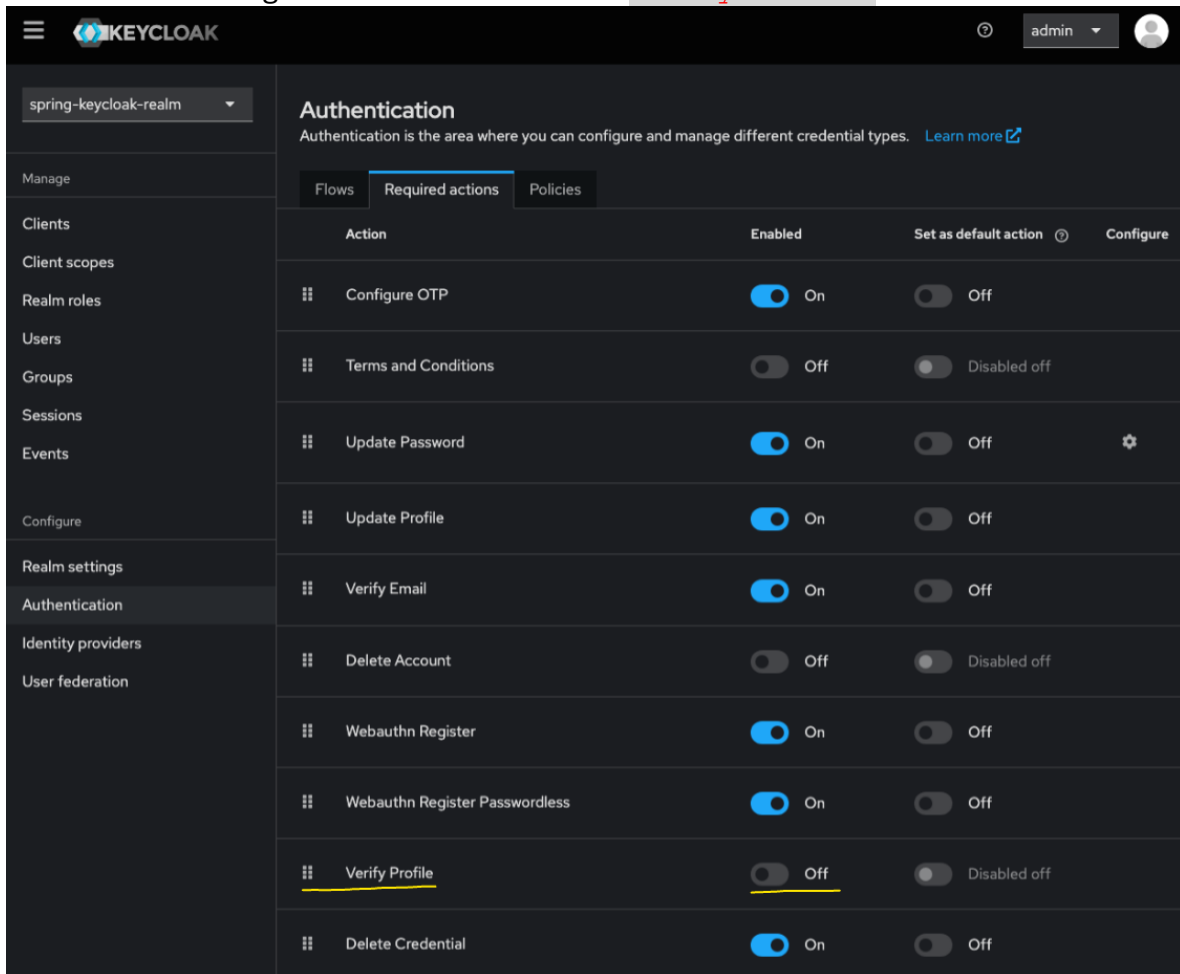
The screenshot shows the 'User details' page for the user 'userproduct'. The 'Role mapping' tab is active, displaying a table of roles assigned to the user. The table has columns for 'Name', 'Inherited', and 'Description'. The first row shows the role 'spring-keycloak-client' with the description 'view-products'. The second row shows the role 'default-roles-spring-keycloak-realm' with the description '\$[role\_default-roles]'. There are 'Assign role', 'Unassign', and 'Refresh' buttons at the top of the table.

Name	Inherited	Description
spring-keycloak-client	False	view-products
default-roles-spring-keycloak-realm	False	[\$role_default-roles]

Asignarle Contraseña: `userproduct` .



Desactivar la configuración de autenticación `Verify Profile` :



**Nota:** Estas configuraciones son específicas para pruebas de este proyecto y deben implementarse exactamente como se indica.