



Design Room ONE

Setting up Authentication in Design Room ONE with Keycloak

This document describes how to setup and use authentication and user management in Design Room ONE by means of Keycloak Integration. This functionality is provided as EXPERIMENTAL. It is included for users' evaluation and feedback and is not recommended for production use.

Table of Contents

Keycloak Server Installation	3
Downloading Keycloak.....	3
Starting Keycloak Server	3
Keycloak Server Configuration	4
Creating a Realm Admin	4
Configuring Master Realm	4
Configuring Drone Realm	8
Setting up Users and Roles	13
Creating Users.....	13
Managing Access with Roles	16
Importing Users from Active Directory	18
Configuring Design Room ONE Server	23
Starting the Design Room ONE Server.....	24
Logging into the Design Room ONE Server with the New User	25
Exporting Models with Design Room ONE Integration Plugin	25
Prerequisites:	25
Single Sign-On with Jazz Authorization Server via OpenID	31
Prerequisites	31
Creating a New Identify Provider in Keycloak	31
Setting up JAS Configuration Security.....	33
Creating a Relying Party Application in JAS.....	34
Creating a New Identify Provider in Keycloak Continued	36
Logging in with JAS Authentication	37
Known Limitations.....	39

Keycloak Server Installation

The instructions below use the following “variables” that need to be replaced with their actual values

DRONE_HOST_NAME e.g. drone.mycomp.any

KEYCLOAK_HOST_NAME e.g. keycloakhost.mycomp.any

KEYCLOAK_INSTALL_DIR e.g. C:\Install\Keycloak

If Keycloak and Design Room ONE are installed on different machines, there should be no firewall blocking their communication.

Downloading Keycloak

Keycloak can be downloaded from the following site:

<https://www.keycloak.org/downloads-archive.html>

Check System Requirements document for supported versions.

Starting Keycloak Server

Unzip the downloaded file (e.g. keycloak-9.0.3.zip) into an installation directory of your choice. We will refer to this installation directory as KEYCLOAK_INSTALL_DIR. Run the standalone version of the server in KEYCLOAK_INSTALL_DIR/bin

For Linux systems use the command:

```
standalone.sh -b 0.0.0.0
```

For Windows:

```
standalone.bat -b 0.0.0.0
```

This script uses

KEYCLOAK_INSTALL_DIR/standalone/configuration/standalone.xml as properties input by default

```
<socket-binding-group name="standard-sockets" default-interface="public" port-  
offset="${jboss.socket.binding.port-offset:0}">  
  <socket-binding name="management-  
http" interface="management" port="${jboss.management.http.port:9990}"/>  
  <socket-binding name="management-  
https" interface="management" port="${jboss.management.https.port:9993}"/>  
  <socket-binding name="ajp" port="${jboss.ajp.port:8009}"/>  
  <socket-binding name="http" port="${jboss.http.port:8080}"/>  
  <socket-binding name="https" port="${jboss.https.port:8443}"/>  
  <socket-binding name="txn-recovery-environment" port="4712"/>  
  <socket-binding name="txn-status-manager" port="4713"/>  
  <outbound-socket-binding name="mail-smtp">  
    <remote-destination host="localhost" port="25"/>  
  </outbound-socket-binding>  
</socket-binding-group>
```

By default, Keycloak will use 8080 as an http port, 8443 as an https port and localhost as host. If you decided use custom KEYCLOAK_HOST_NAME, it should be specified as shown in bold below.

```
<server name="default-server">
  <http-listener name="default" socket-binding="http" redirect-
socket="https" enable-http2="true"/>
  <https-listener name="https" socket-binding="https" security-
realm="ApplicationRealm" enable-http2="true"/>
  <host name="default-host" alias="keycloak.mycomp.any">
    <location name="/" handler="welcome-content"/>
    <http-invoker security-realm="ApplicationRealm"/>
  </host>
</server>
```

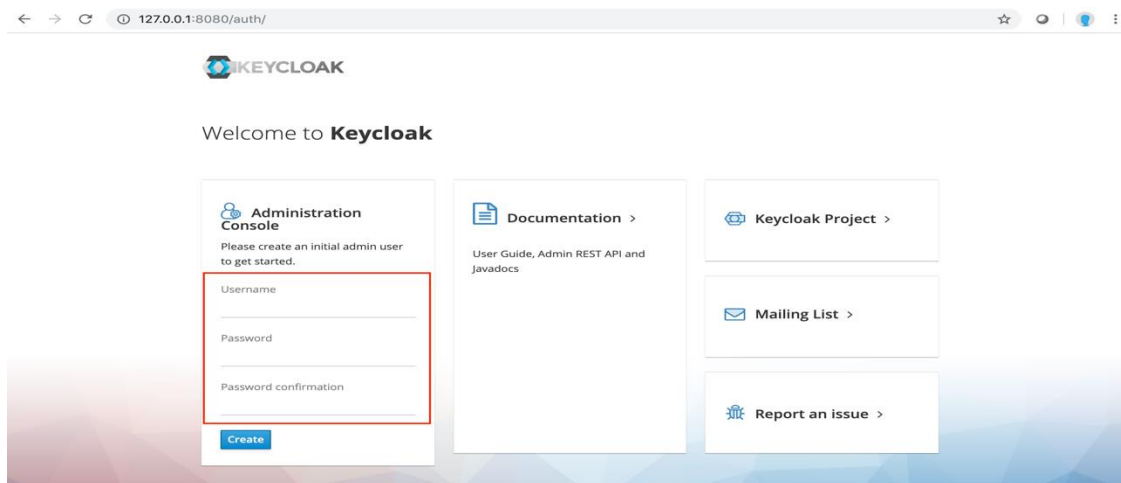
Keycloak Server Configuration

Creating a Realm Admin

This admin user can be thought of as a super admin with all access (realm creation, update, deletion, user creation, update, deletion, etc)

Open a browser and navigate to https://KEYCLOAK_HOST_NAME:8443/auth (or HTTP endpoint).

Note: the browser may show a warning if e.g. certificate does not match the host name

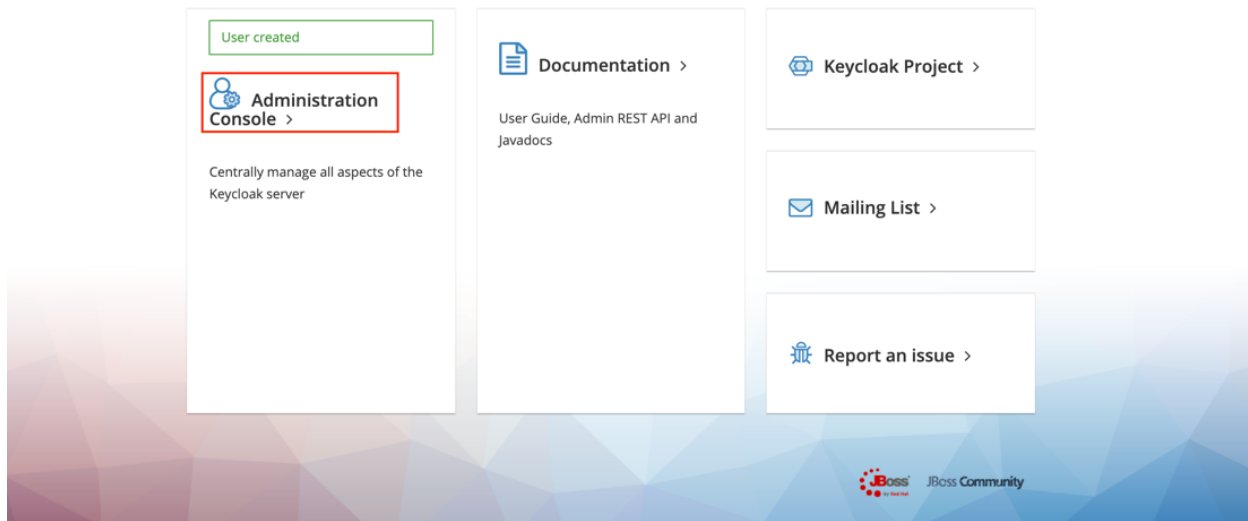


Specify the admin credentials and press create.

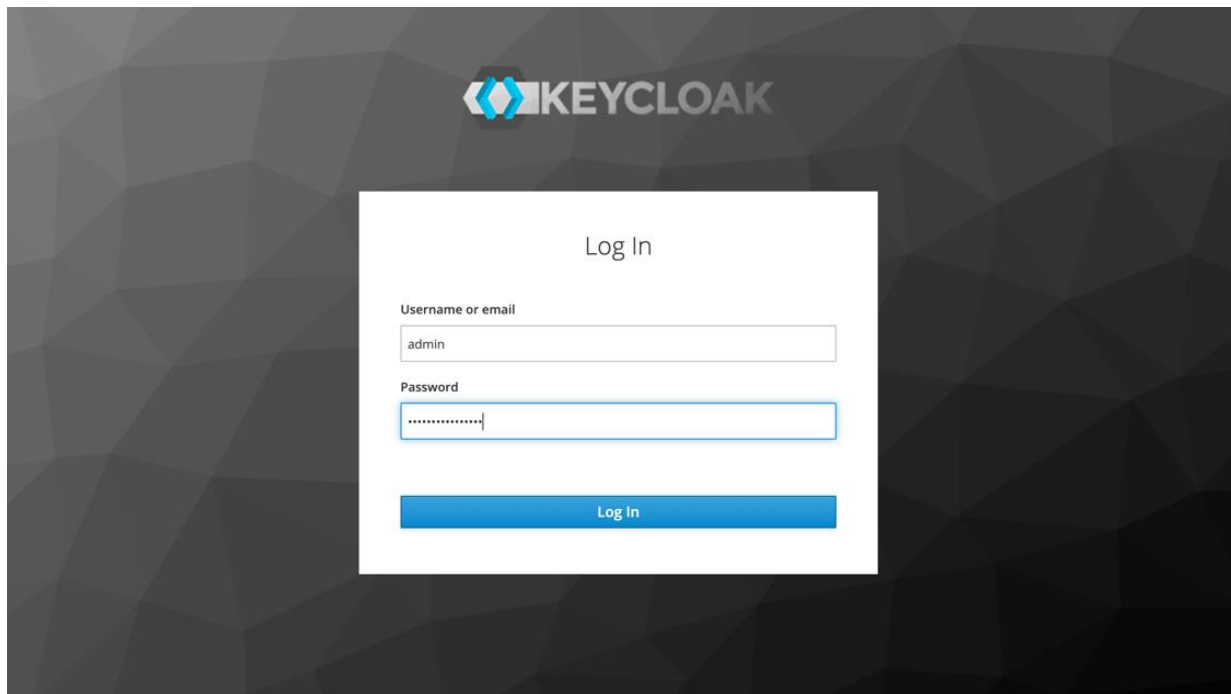
Configuring Master Realm

Navigate to the administration console and login by clicking on the Administration Console link as illustrated below

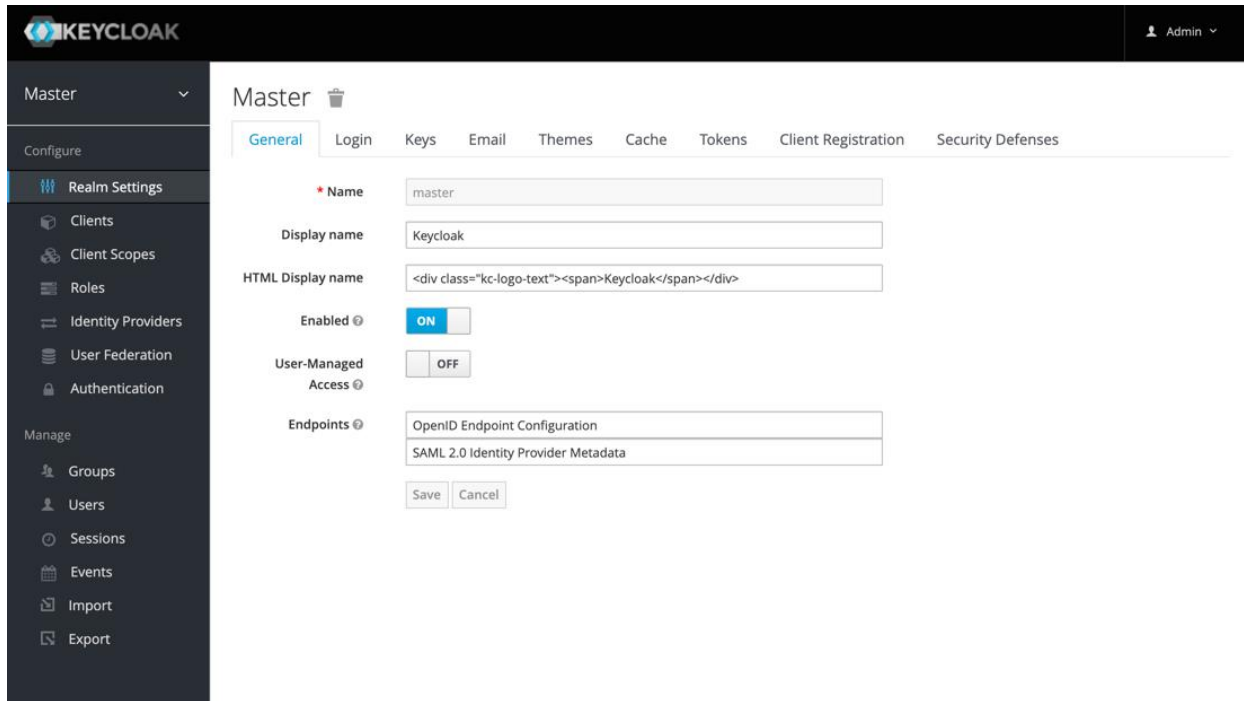
Welcome to **Keycloak**



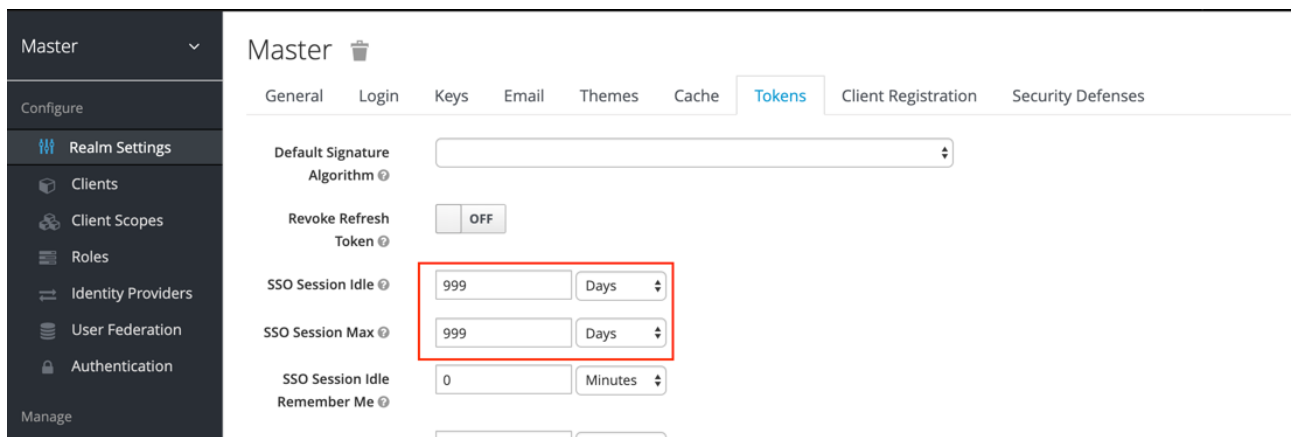
You will be directed to



After a successful login, you should a similar console:



1. Set SSO Session Idle and SSO Session Max to 999 days
 - a. Click on “Tokens” tab
 - b. Set SSO Session Idle and SSO Session Max values to 999 days.



2. Ensure Access Type is set to “confidential”
 - a. In the left menu, click on “Clients”, then click on “admin-cli” client
3. Activate Service Accounts Enabled switch
4. Press Save

Master ▾ Clients > admin-cli

Admin-cli

Settings Roles Client Scopes Mappers Scope Revocation Sessions Offline Access Installation

Client ID

Name

Description

Enabled ☒

Consent Required ☐

Login Theme

Client Protocol

Access Type

Standard Flow Enabled ☐

Implicit Flow Enabled ☐

Direct Access Grants Enabled ☒

Service Accounts Enabled ☒

5. Under the Service Account Roles
 - a. Add the admin role to the master service account

KEYCLOAK Admin ▾ Clients > admin-cli

Admin-cli

Settings Credentials Roles Client Scopes Mappers Scope Authorization Revocation Sessions

Offline Access Clustering Installation Service Account Roles

admin-cli Service Accounts

Realm Roles	Available Roles	Assigned Roles	Effective Roles
	<input type="text"/> Add selected >	<input checked="" type="checkbox"/> admin <input checked="" type="checkbox"/> offline_access <input checked="" type="checkbox"/> uma_authorization << Remove selected	admin create-realm offline_access uma_authorization

Client Roles

Select client to view roles for client

6. Click on the Settings tab, scroll down and set token to 999 days under Advanced Settings
7. Click Save

Direct Access Grants Enabled

OFF

Service Accounts Enabled

ON

Authorization Enabled

ON

Root URL

Base URL

Admin URL

*

> Fine Grain OpenID Connect Configuration

> OpenID Connect Compatibility Modes

Advanced Settings

Access Token Lifespan

999

Days

OAuth 2.0 Mutual TLS Certificate Bound Access Tokens Enabled

OFF

> Authentication Flow Overrides

Save

Cancel

Configuring Drone Realm

1. Import the realm data
 - a. Hover over Master in top left corner and click on Add realm

KEYCLOAK

Admin

Master

Add realm

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Master

General

Login

Keys

Email

Themes

Cache

Tokens

Client Registration

Security Defenses

Name

master

Display name

Keycloak

HTML Display name

<div class="kc-logo-text">Keycloak</div>

Enabled

ON

User-Managed Access

OFF

Endpoints

OpenID Endpoint Configuration

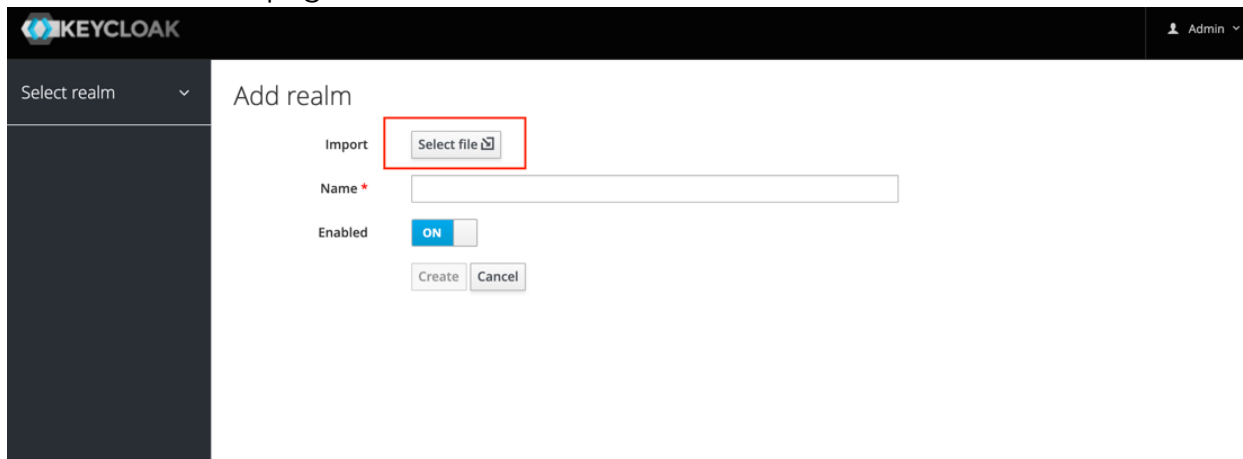
SAML 2.0 Identity Provider Metadata

Save

Cancel

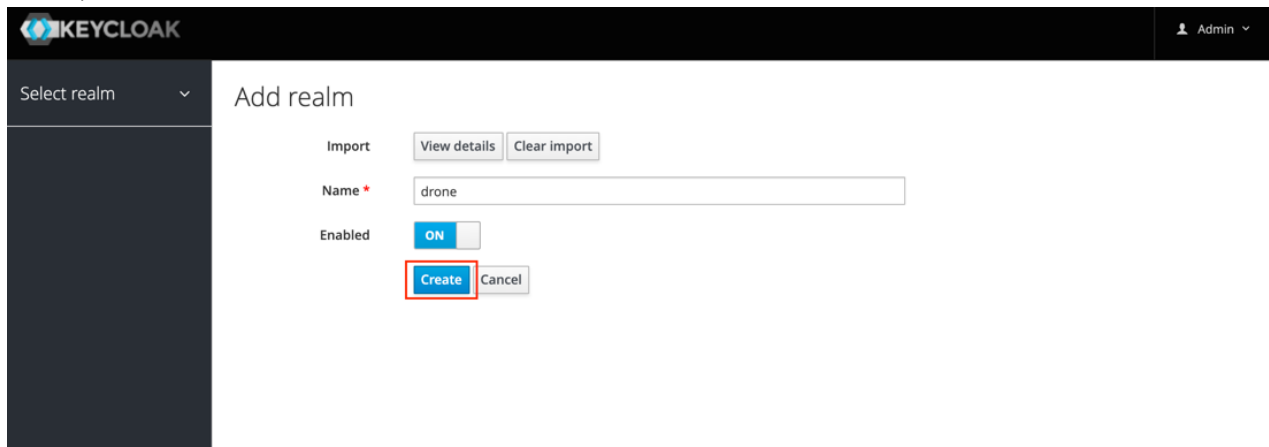
8

You should see a page similar to the one below.



The screenshot shows the Keycloak administration interface. On the left is a sidebar with a 'Select realm' dropdown. The main area is titled 'Add realm'. Under the 'Import' section, the 'Select file' button is highlighted with a red rectangle. Below this, the 'Name' field is empty, and the 'Enabled' toggle switch is turned 'ON'. At the bottom of the form are 'Create' and 'Cancel' buttons.

Click on Select File and point to drone-realm-export.json file. It can be found in machine where Design Room ONE is installed under following path:
DR_ONE_INSTALL_DIR/DR_Install/Resources/Keycloak/drone-realm-export.json
Then, click Create



This screenshot shows the 'Add realm' page after the file has been selected. The 'Name' field now contains the text 'drone'. The 'Enabled' toggle remains 'ON'. The 'Create' button is now highlighted with a red rectangle, indicating the next step in the process.

Your Drone realm should be created successfully as shown below:

KEYCLOAK

Success! The realm has been created. X

Admin

Drone

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Drone

General Login Keys Email Themes Cache Tokens Client Registration Security Defenses

Name drone

Display name Design Room ONE

HTML Display name

Enabled ON

User-Managed Access OFF

Endpoints OpenID Endpoint Configuration
SAML 2.0 Identity Provider Metadata

Save Cancel

2. Assign the proper theme
 - a. Click on the Themes tab

KEYCLOAK

Success! The realm has been created. X

Admin

Drone

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Drone

General Login Keys Email Themes Cache Tokens Client Registration Security Defenses

Name drone

Display name Design Room ONE

HTML Display name

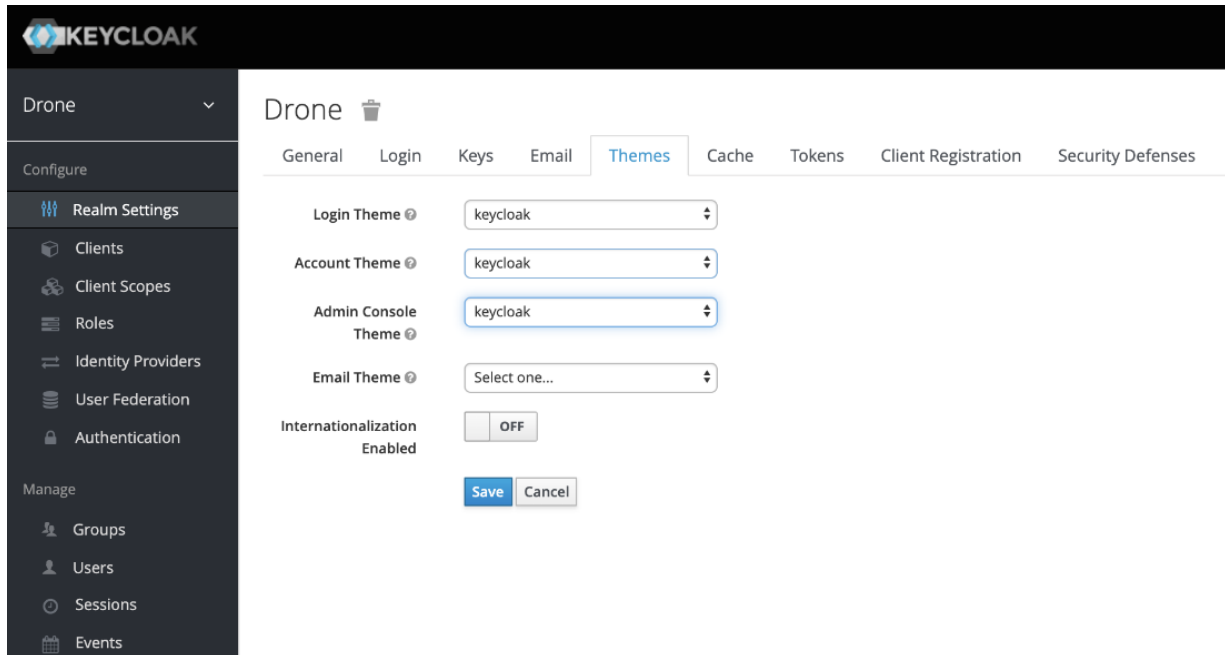
Enabled ON

User-Managed Access OFF

Endpoints OpenID Endpoint Configuration
SAML 2.0 Identity Provider Metadata

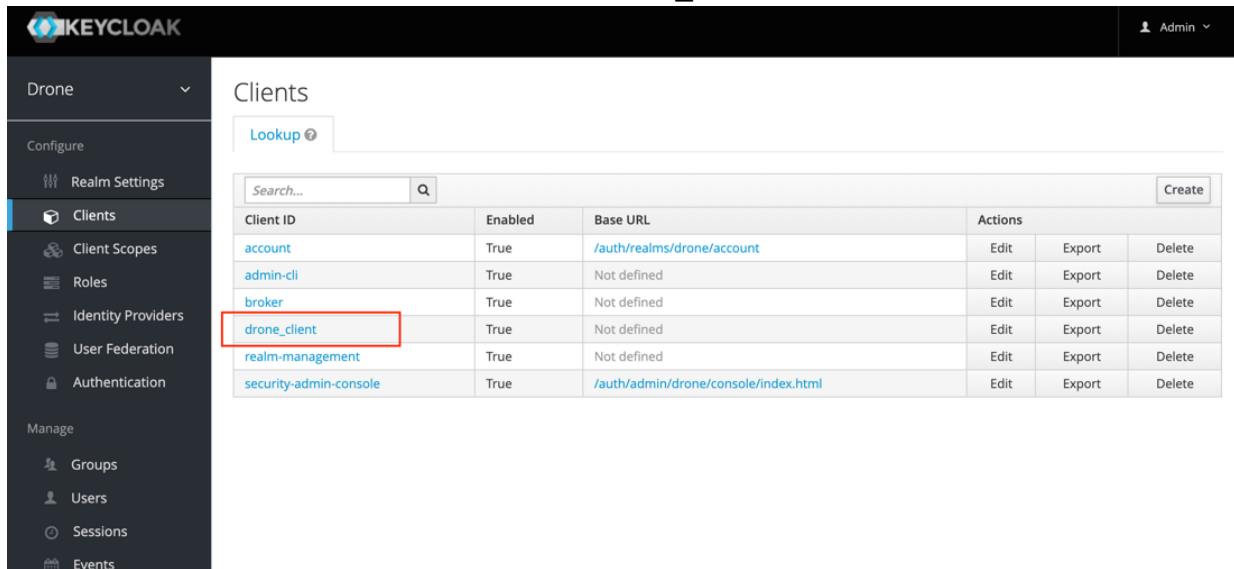
Save Cancel

- b. Assign keycloak themes as shown below and Save.



3. Setup drone_client

- a. Under Clients click on the drone_client link



- b. Click on the Settings top menu, scroll down and add DRONE_HOST_NAME (or ip address) accessible by other machines for the server Keycloak as valid redirect URIs as in example below. It is recommended to use lowercase letters.

Direct Access Grants Enabled ?

ON

Root URL ?

https://drone.mycomp.any:10101/dr*

-

* Valid Redirect URIs ?

+

Base URL ?

Admin URL ?

Web Origins ?

-

+

> Fine Grain OpenID Connect Configuration ?

> OpenID Connect Compatibility Modes ?

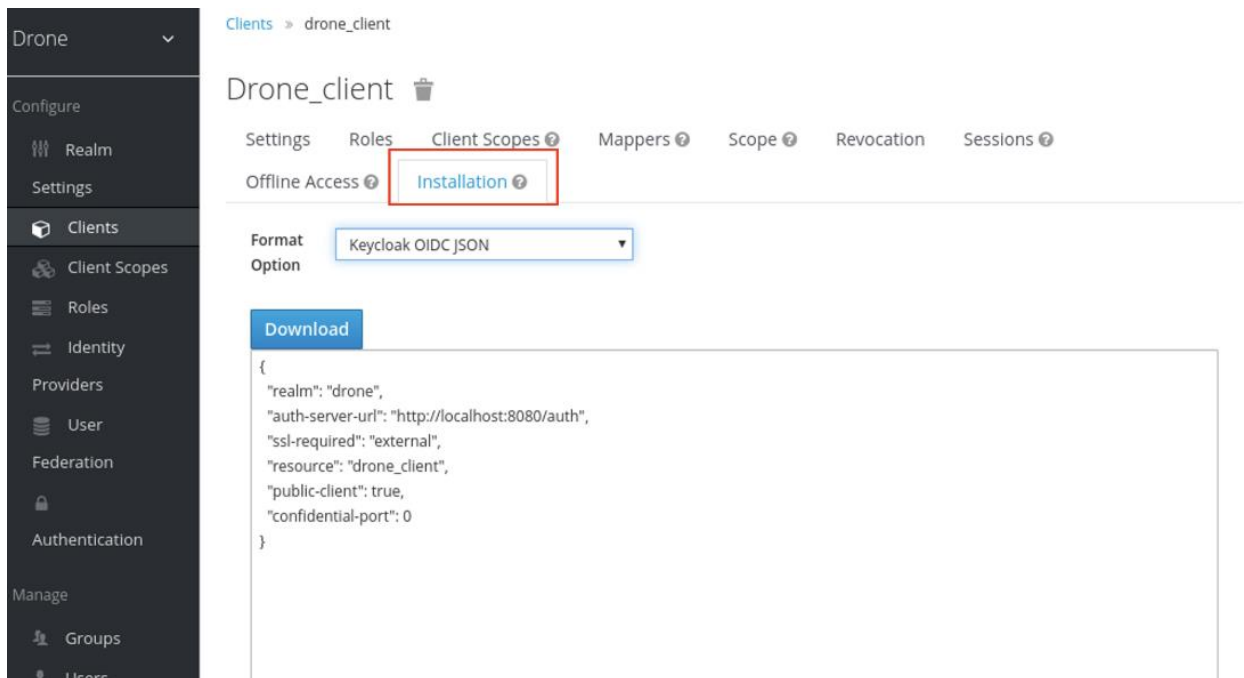
> Advanced Settings ?

> Authentication Flow Overrides ?

Save

Cancel

- c. Under Installation menu, download the config file. The file will be downloaded as keycloak.json. Do not change the name and move the file to Design Room ONE machine under DR_ONE_INSTALL_DIR\OnPrem_Design_Room\config folder



Important: After the keycloak.json file is moved, open it to ensure correct KEYCLOAK_HOST_NAME (or ip-address) in specified in auth-server-url attribute and the URL is accessible by machine where Design Room ONE server is installed and from user machines. It is recommended to use lowercase letters in the URL.

```
{  
  "realm": "drone",  
  "auth-server-url": "https://keycloak.mycomp.any:8443/auth/",  
  "ssl-required": "external",  
  "resource": "drone_client",  
  "public-client": true,  
  "confidential-port": 0  
}
```

Setting up Users and Roles

Creating Users

Before we create a user, you can notice that some roles were created by default in Keycloak notably the ones arrowed.

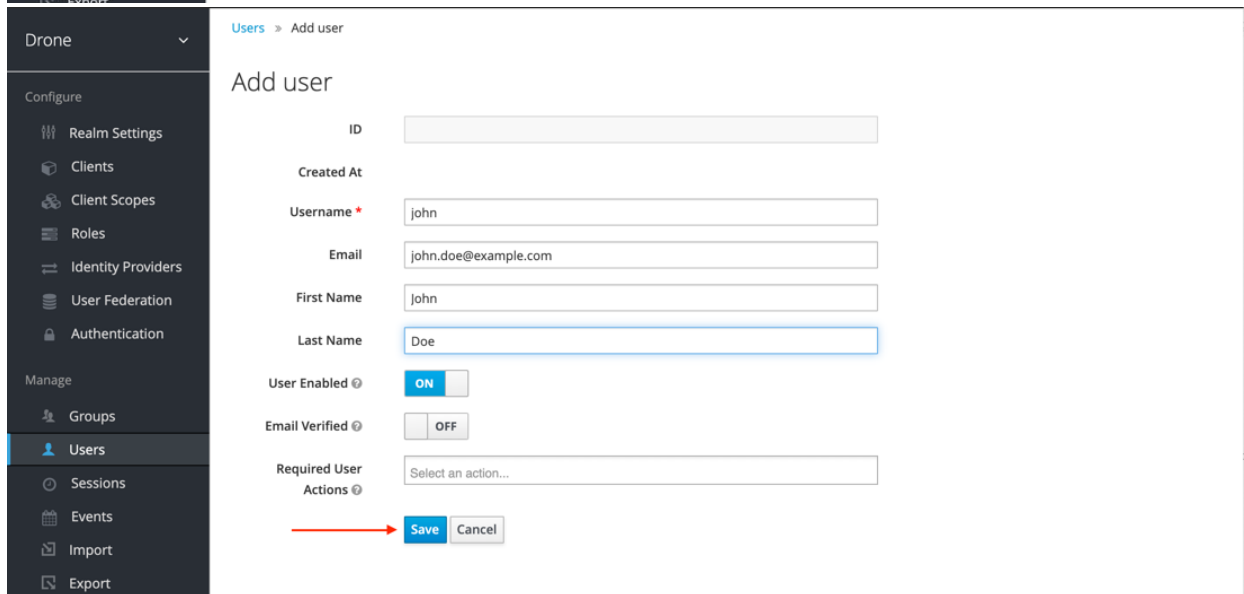
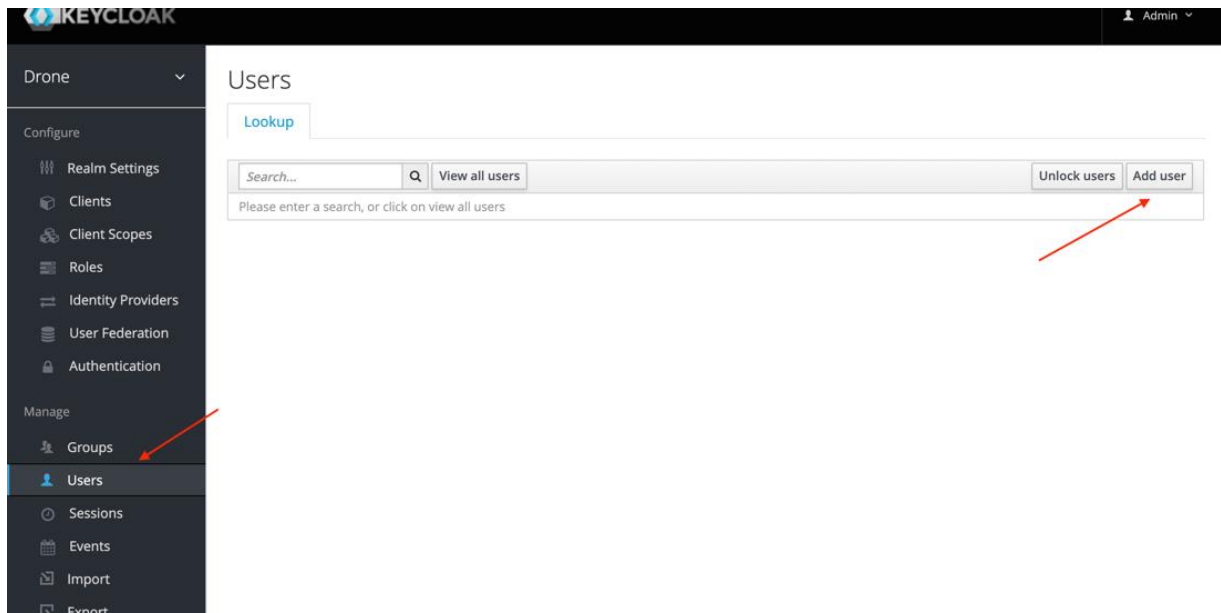
The screenshot shows the Keycloak administration interface for the 'Drone' realm. The left sidebar contains navigation links for 'Configure' (Realm Settings, Clients, Client Scopes, Roles, Identity Providers, User Federation, Authentication) and 'Manage' (Groups, Users, Sessions, Events). The 'Roles' page is active, displaying a table of roles under the 'Default Roles' tab. A red arrow points from the 'Roles' link in the sidebar to the table.

Role Name	Composite	Description	Actions
drone_user	False	A user in DRONE must have this role to login	Edit Delete
offline_access	False	\$(role_offline-access)	Edit Delete
sample_all_access	False	This role gives read and write access to all designs.	Edit Delete
sample_partial_access	False	This role will give read access to all design starting with traffic	Edit Delete
uma_authorization	False	\$(role_uma_authorization)	Edit Delete

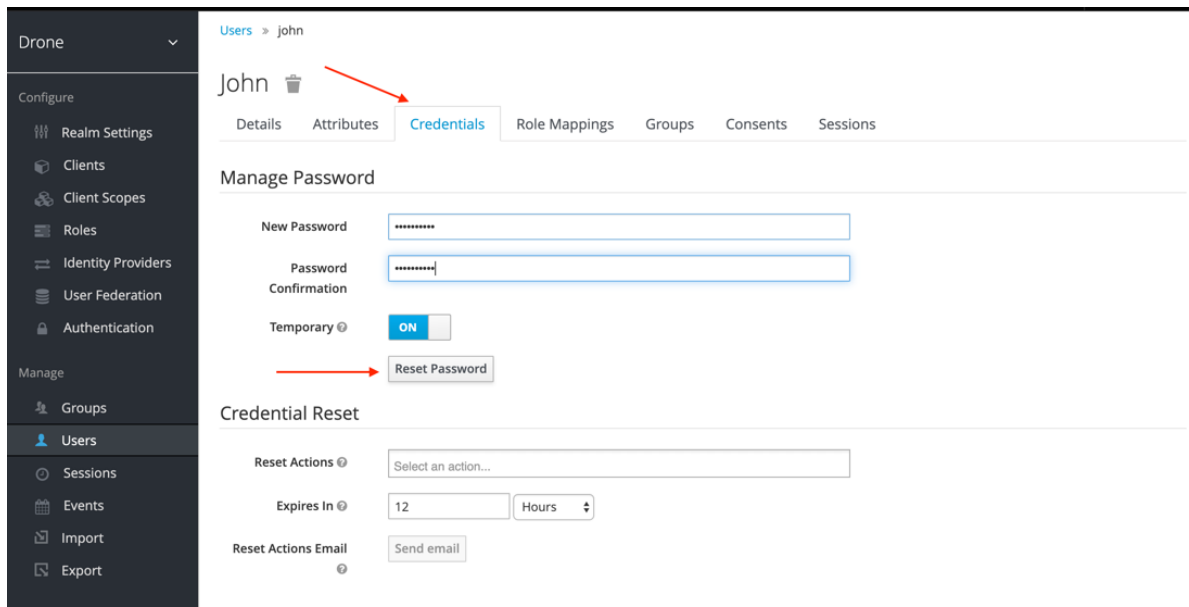
Note: drone_user is also a default role which means that every new user will by default inherit this role as shown below

The screenshot shows the 'Default Roles' configuration page in Keycloak. It features three main sections: 'Realm Roles' (empty), 'Available Roles' (containing 'sample_all_access' and 'sample_partial_access'), and 'Realm Default Roles' (containing 'drone_user', 'offline_access', and 'uma_authorization'). A red arrow points to 'drone_user' in the 'Realm Default Roles' list. Below these sections is a 'Client Roles' dropdown menu. Buttons for 'Add selected' and '< Remove selected' are also present.

1. Create a user



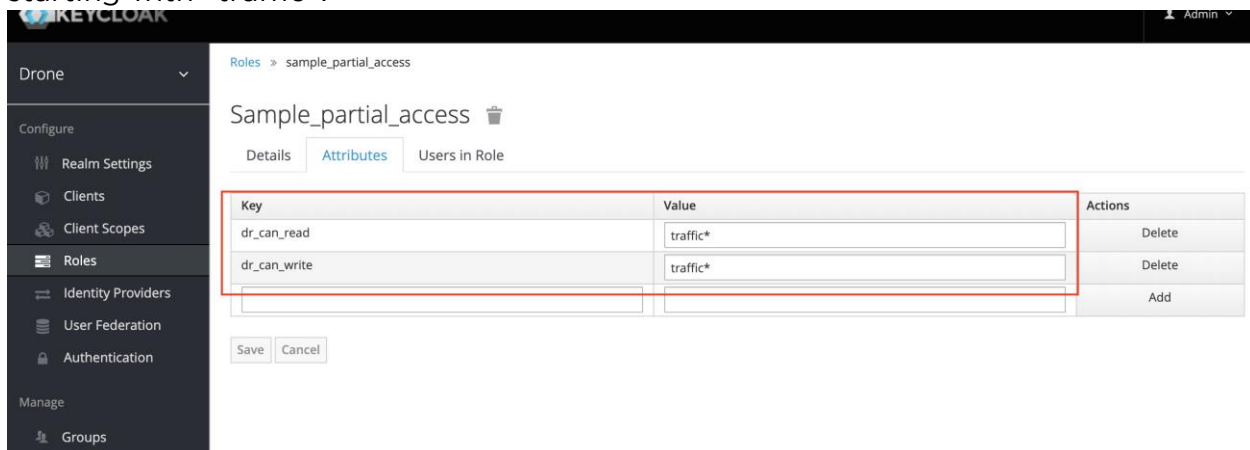
2. Setup the user password and click Reset Password



Managing Access with Roles

Access to designs in Design Room ONE is controlled with special attributes that can be specified for a role in Keycloak. The `dr_can_read` and `dr_can_write` attributes of roles give users respectively read and write access to specific designs. These attributes support wildcard as shown in the picture below.

Under Roles > `sample_partial_access` > Attributes you can see that the `dr_can_read` and `dr_can_write` attributes are both set to `traffic*` which means that users or groups with this role will be able to read and write to all designs with names starting with `traffic`.

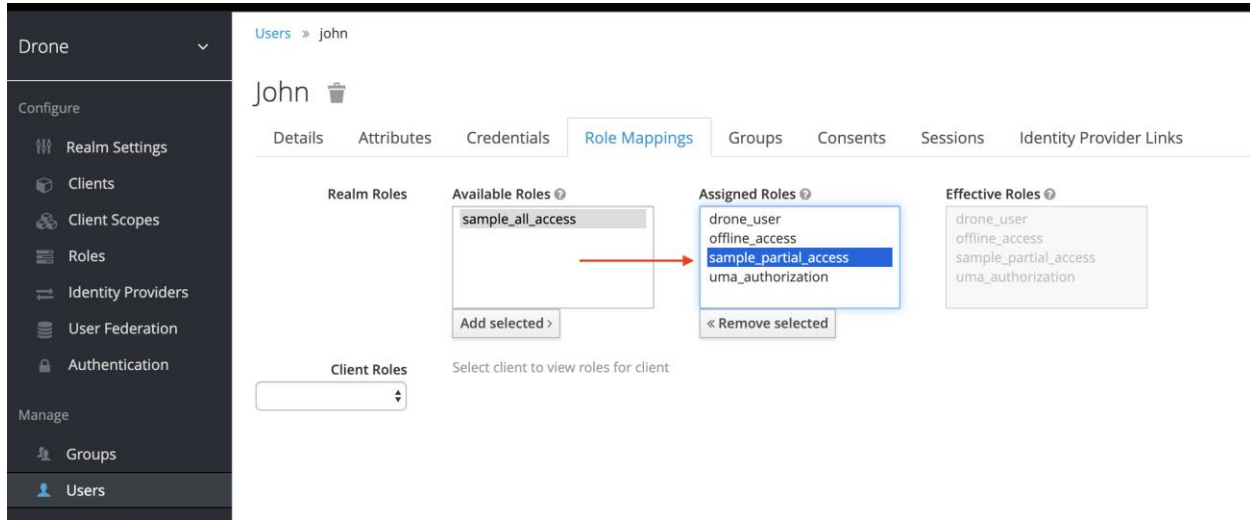


It is possible to specify several alternatives by using `|` character, e.g. the following value

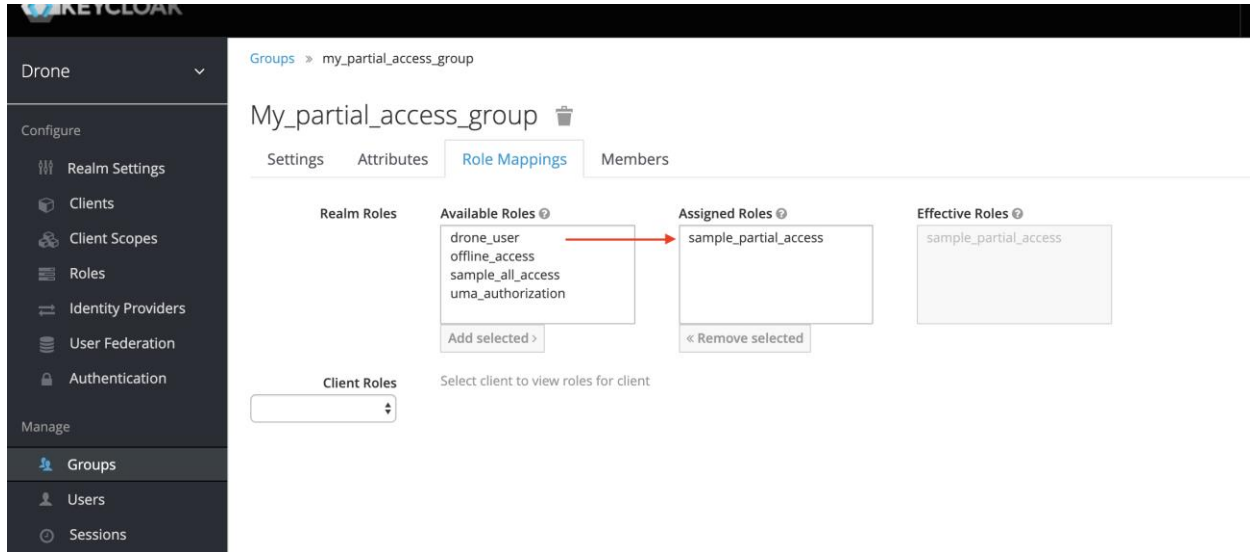
`traffic*|*_secretproject|*alice*`

Will give read or write access (depending on the attribute it is specified in) to designs, which name either starts with `traffic`, or ends with `_secretproject` or contains the word `alice`. Note that, design names are case sensitive.

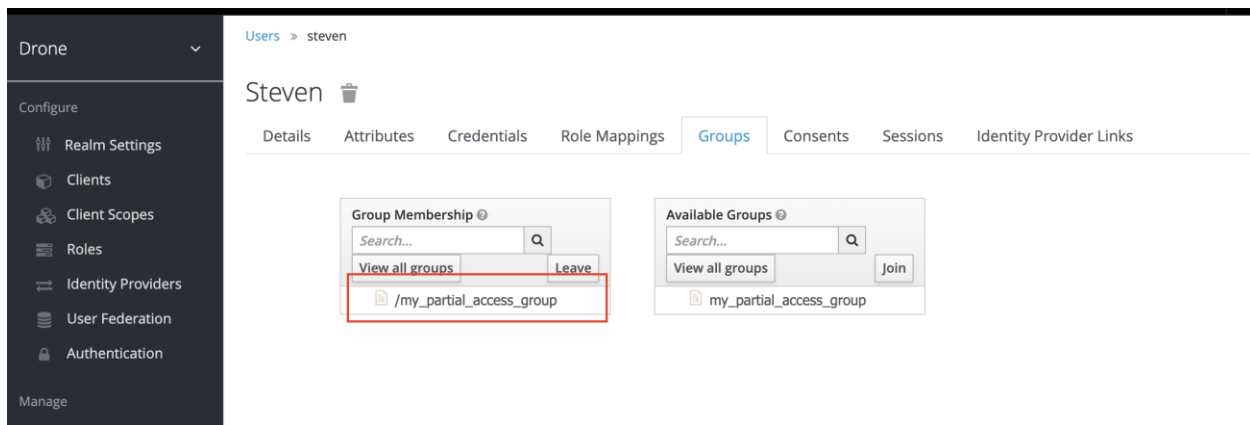
To explicitly assign a role to a user, Role Mapping page under the Users left menu can be used.



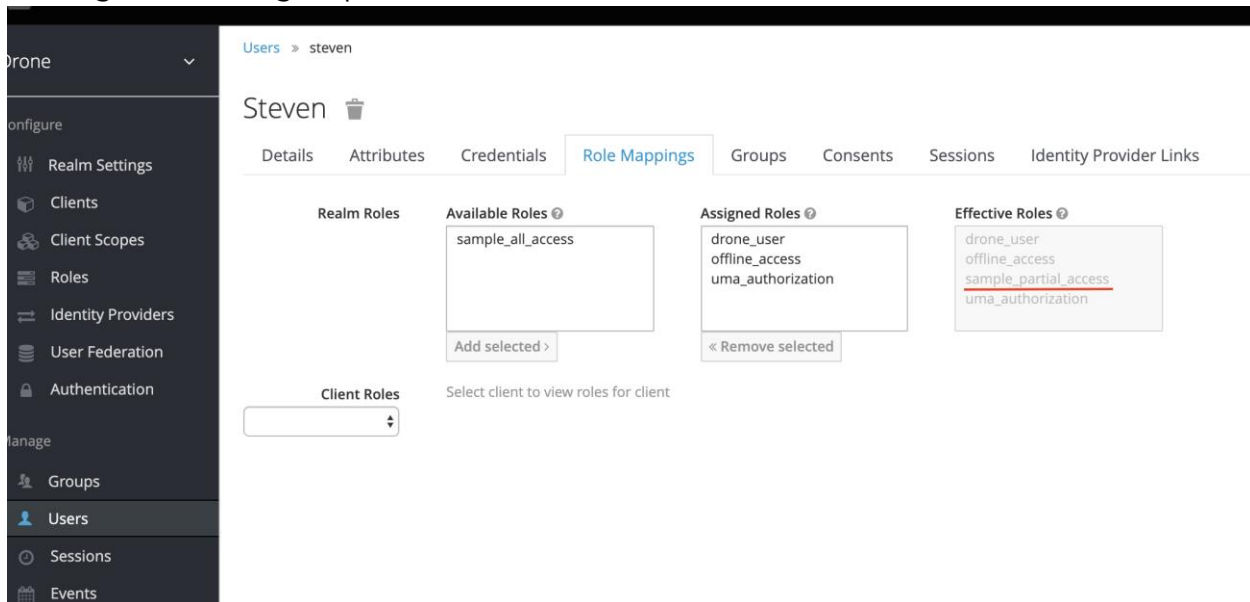
A user can implicitly get role from the groups they belong. To assign a role to a group Role Mapping page under the Groups left menu can be used.



Note: A user will inherit all the roles from the group the belong
In the example below user Steven belongs to my_partial_access_group



This means user Steven automatically inherits sample_partial_access role because it is assigned to the group.

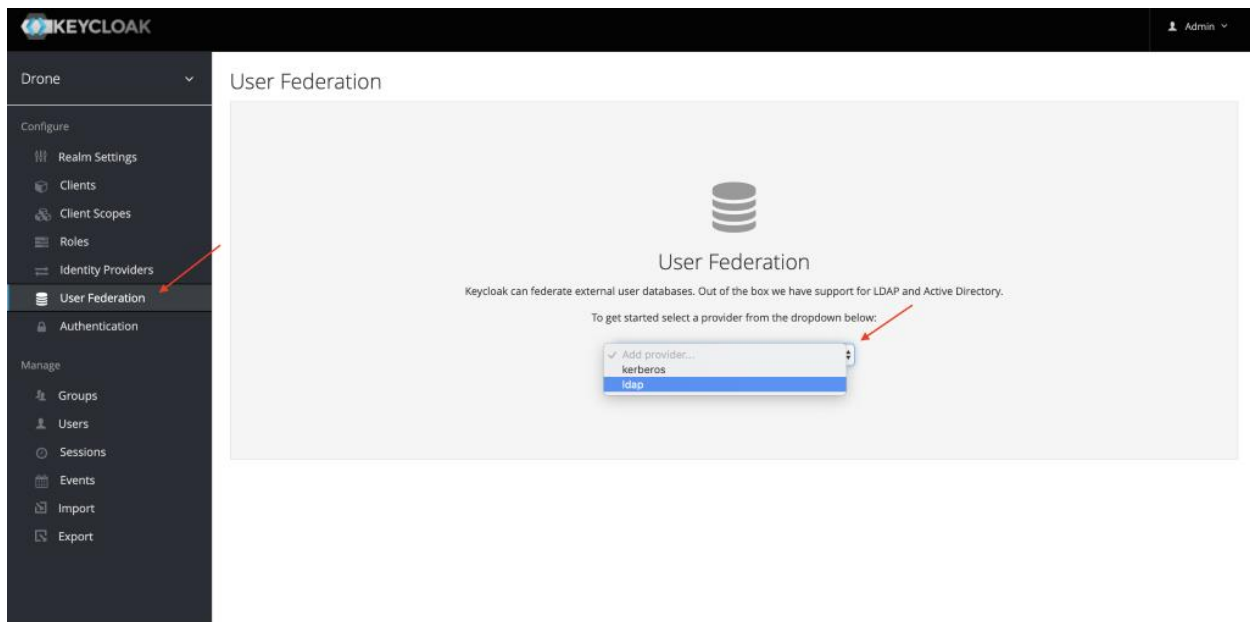


This results any my_partial_access_group member including user Steven being able to read and write all designs with names starting with “traffic” because of the group membership.

Importing Users from Active Directory

Note: The Active directory server reference is at the end of the file.

1) Ensure you are in the Drone realm and click on User Federation left menu item
Then select ldap from the dropdown



Note: We will go with basic active directory setup here. All the page options are configurable with tooltip information to allow for more advanced setups if one chooses to.

2) Set Vendor to Active Directory

You should see some fields pre-filled with default values as shown below:

* Vendor ? Active Directory

* Username LDAP attribute ? cn

* RDN LDAP attribute ? cn

* UUID LDAP attribute ? objectGUID

* User Object Classes ? person, organizationalPerson, user

* Connection URL ? LDAP connection URL

* Users DN ? LDAP Users DN

* Bind Type ? simple

Test connection

2) Set the connection url and test the connection via the Test connection button as shown below:

User Federation

Authentication

Import Users ? ON

Edit Mode ?

Sync Registrations ? OFF

* Vendor ? Active Directory

* Username LDAP attribute ? cn

* RDN LDAP attribute ? cn

* UUID LDAP attribute ? objectGUID

* User Object Classes ? organizationalPerson

* Connection URL ? ldap://steven.ad

* Users DN ? LDAP Users DN

* Bind Type ? simple

Enable StartTLS ? OFF

Success! LDAP connection successful.

Test connection

3) Set the active directory users database here

* Users DN ? ou=users,dc=hcl,dc=com

* Bind Type ? simple

Enable StartTLS ? OFF

4) Set the Active Directory (AD) admin credentials and test authentication to the AD server as shown below:

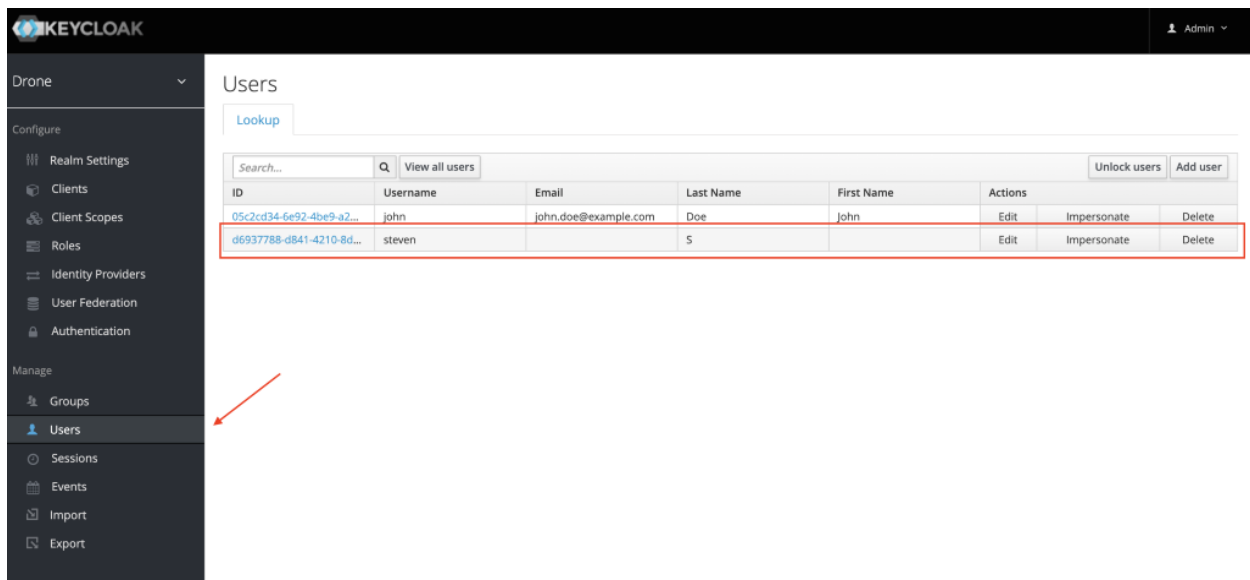
LDAP configuration page showing fields for Connection URL, Users DN, Bind Type, Enable StartTLS, Bind DN, Bind Credential, and Custom User LDAP Filter. A success message indicates LDAP authentication was successful. Buttons for 'Test connection' and 'Test authentication' are visible.

5) Leave the rest as is and scroll down and click Save, then click on Synchronize all users to import all existing users from AD to Keycloak

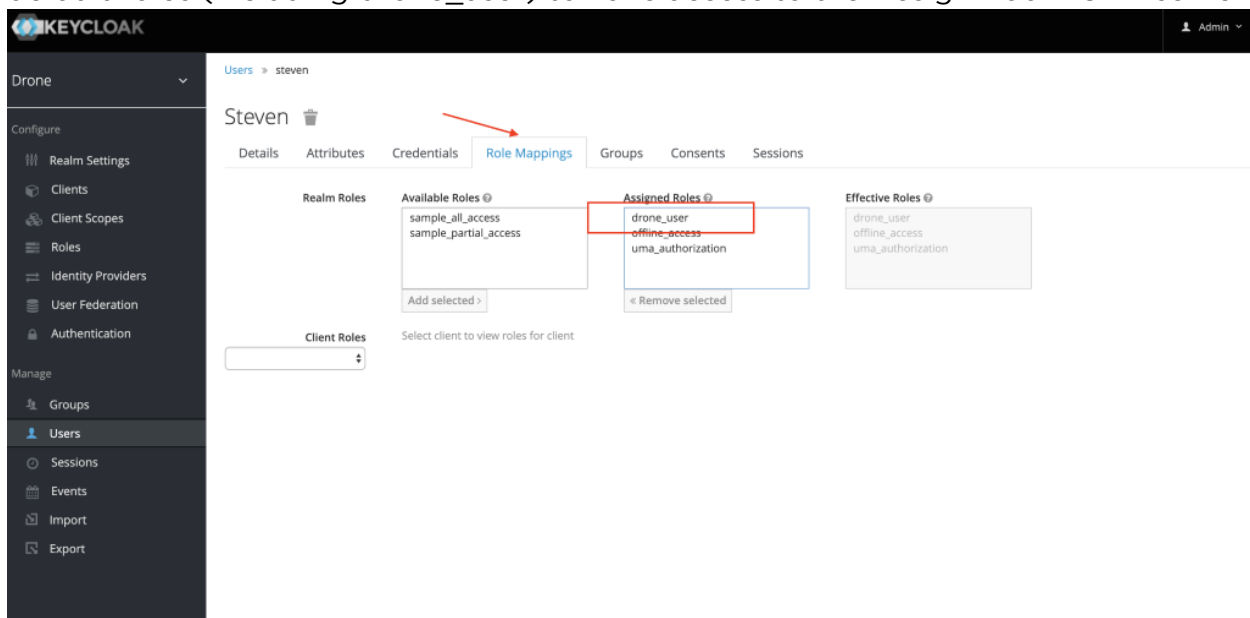
LDAP configuration page showing sections for Kerberos Integration, Sync Settings, and Cache Settings. The 'Save' button and 'Synchronize all users' button are highlighted with red boxes.

In our case 1 user was imported from our active directory server.

6) If we now click on the Users menu, we see our imported user.



7) Click on the user and observe the role mappings. The user should inherit all default roles (including drone_user) to have access to the Design Room ONE server



8) You can now login into Design Room ONE with the newly created user.

LDAP Directory Information Tree data reference

```
#
# LDAPv3
# base <dc=hcl,dc=com> (default) with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
# hcl.com
dn: dc=hcl,dc=com
objectClass: top
objectClass: dcObject
objectClass: organization
o: hcl
dc: hcl

# admin, hcl.com
dn: cn=admin,dc=hcl,dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator

# users, hcl.com
dn: ou=users,dc=hcl,dc=com
objectClass: organizationalUnit
ou: users

# steven, users, hcl.com
dn: cn=steven,ou=users,dc=hcl,dc=com
cn: steven
sn: US
objectClass: organizationalPerson

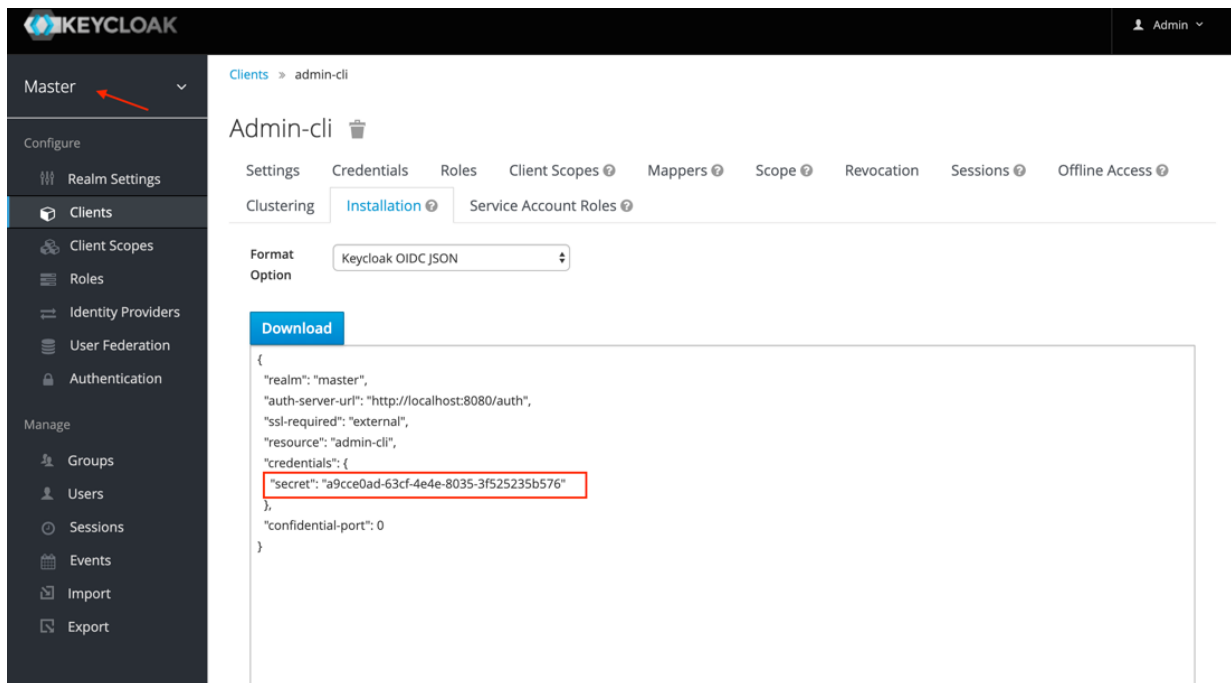
# search result
search: 2
result: 0 Success

# numResponses: 5
# numEntries: 4
```

Summary: Hcl.com(organization)->users(organization unit or OU)->steven(Member of OU)

Configuring Design Room ONE Server

Under the Master Realm> Clients> Admin-cli>Installation, copy the secret attribute value.



Uncomment and paste the value for `kc_admin_secret` in your Design Room ONE server configuration file (`DR_ONE_INSTALL_DIR > OnPrem_Design_Room > config > server-config.json`) as shown below:

```
// Number of milliseconds to wait for an ongoing server request to complete before shutting
// down the server.
"dr_shutdown_timeout": 5000,

// Authentication (for accessing information stored in Design Room ONE)
// "none": Do not use any authentication. Everyone can access all designs.
// "jazz": Use Jazz authentication. User needs to be logged in to Jazz to access designs.
// "keycloak": Use Keycloak authentication. User needs to be logged via keycloak to access designs.
"dr_auth": "keycloak",

//this secret key MUST be set when using keycloak
"kc_admin_secret": "a9cce0ad-63cf-4e4e-8035-3f525235b576",
```

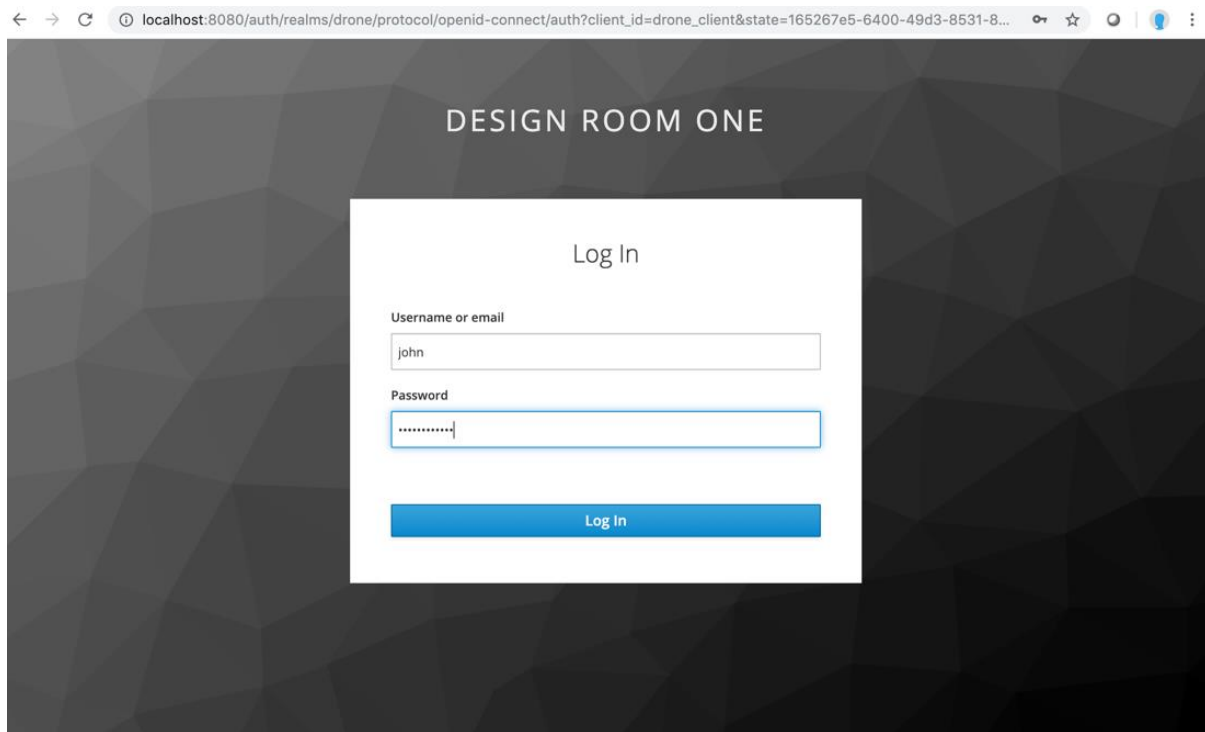
Ensure that you use “keycloak” as value for “dr_auth” to use keycloak for authentication.

You have now successfully configured Design Room ONE.

Starting the Design Room ONE Server

Ensure Design Room ONE server is started. Navigate to your Design Room ONE installation and launch the `dr-deploy.js` script.

Logging into the Design Room ONE Server with the New User

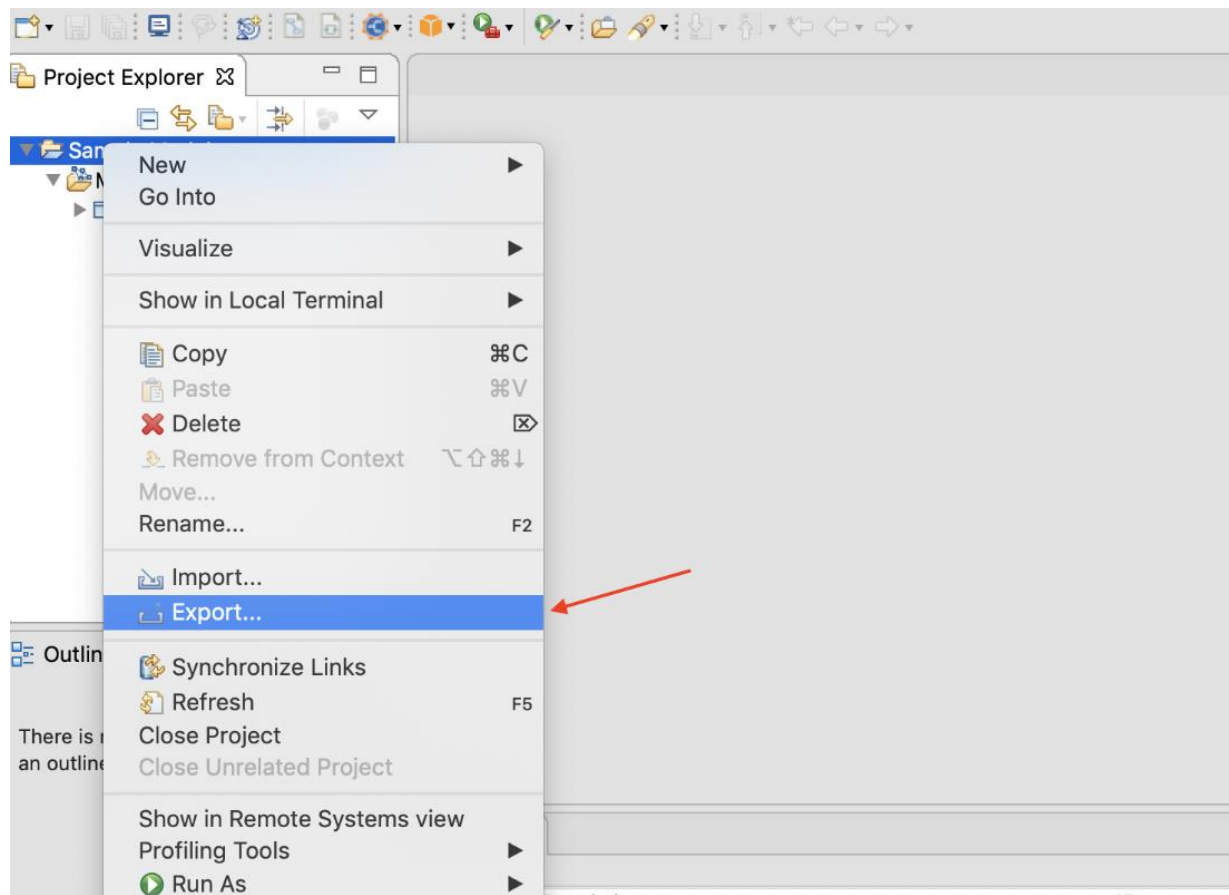


Exporting Models with Design Room ONE Integration Plugin

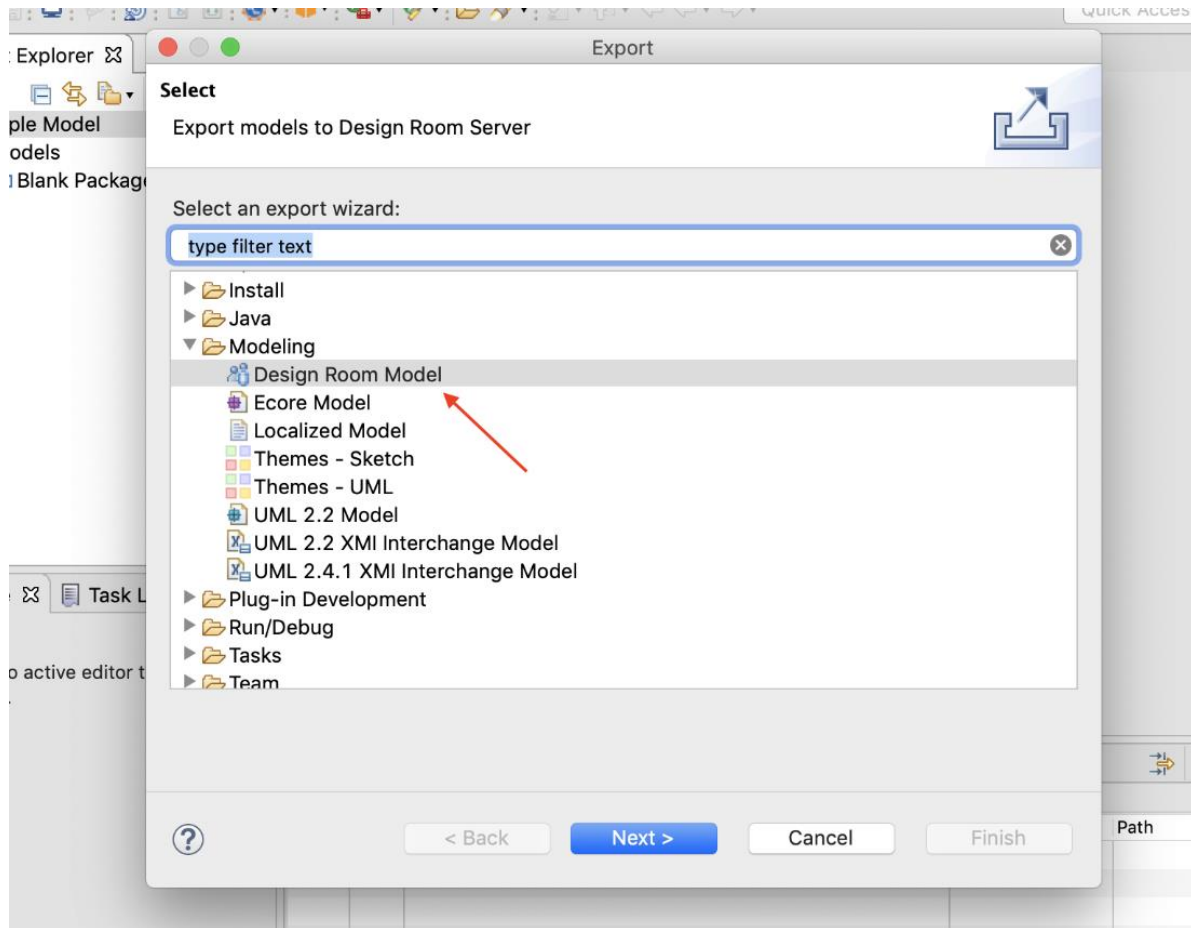
Below, we will highlight the steps to login in the eclipse client once Keycloak is enabled on the Design Room ONE server.

Prerequisites:

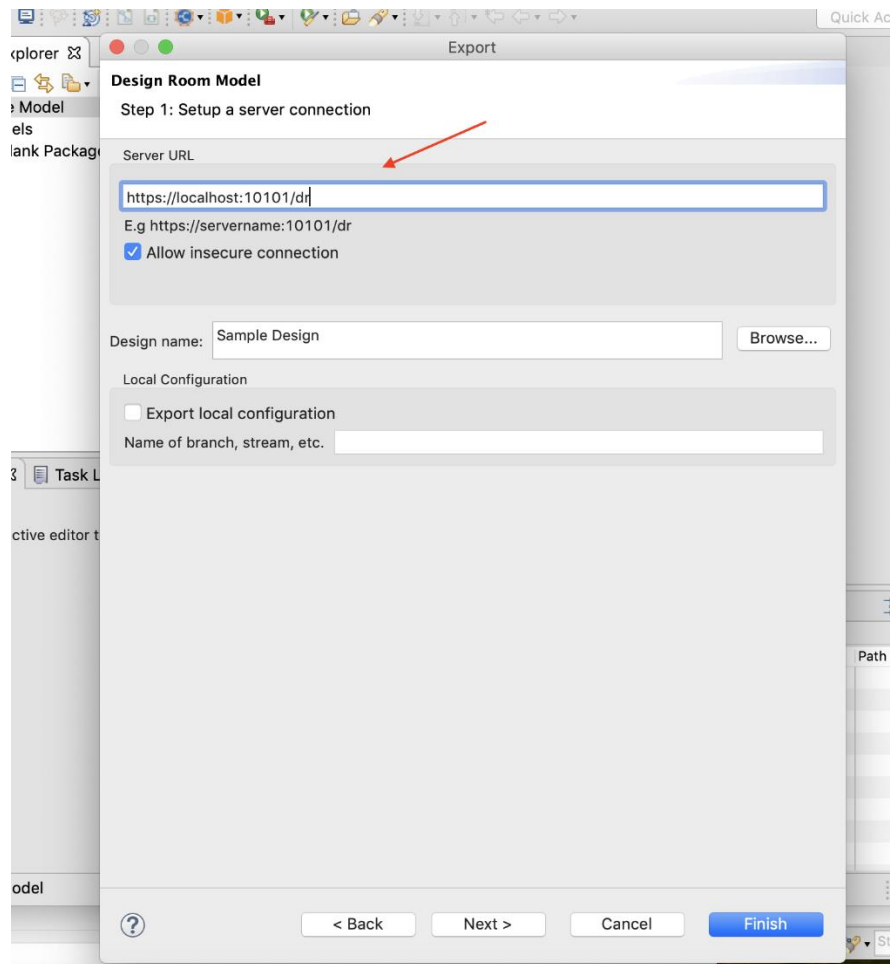
1. Install the Design Room ONE Integration feature in your modeling software by following the steps in the Design Room ONE installation document
 2. Then ensure that the Design Room ONE server is started successfully.
- Right click on a project you want to export and select Export



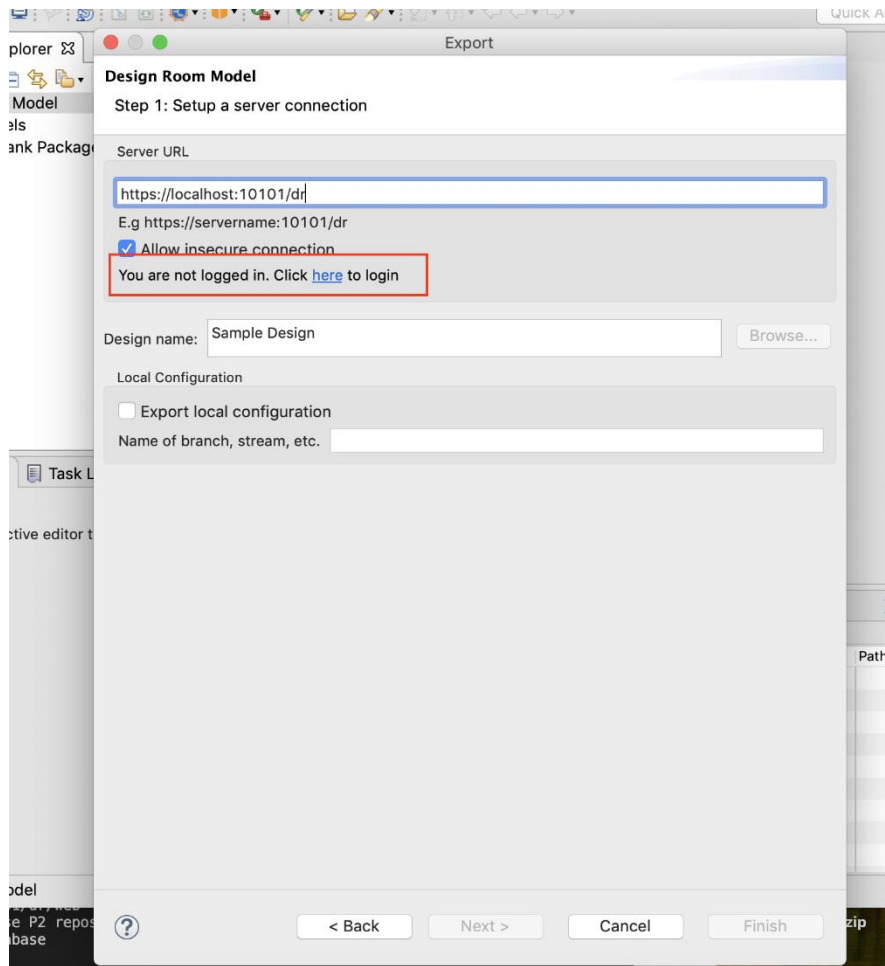
Under the Modeling folder, select Design Room Model



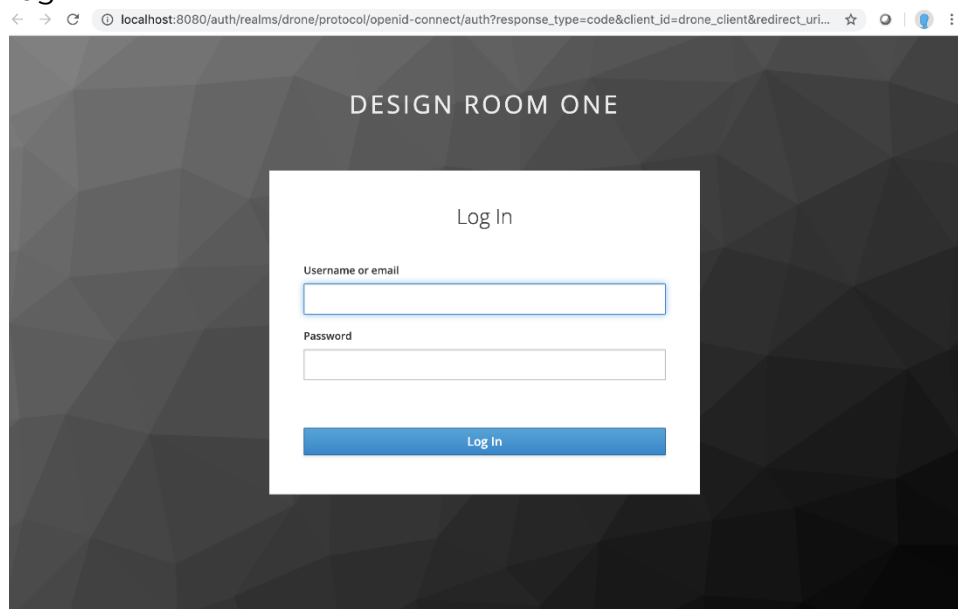
Then enter the server URL for your Design Room ONE server.



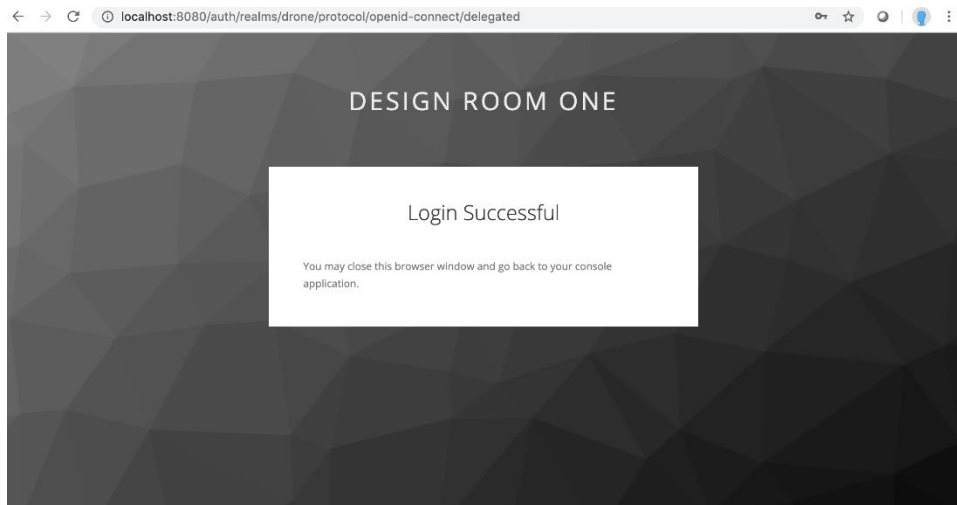
If authentication is enabled on the server and the URL is valid, you will see the message with a link to login.



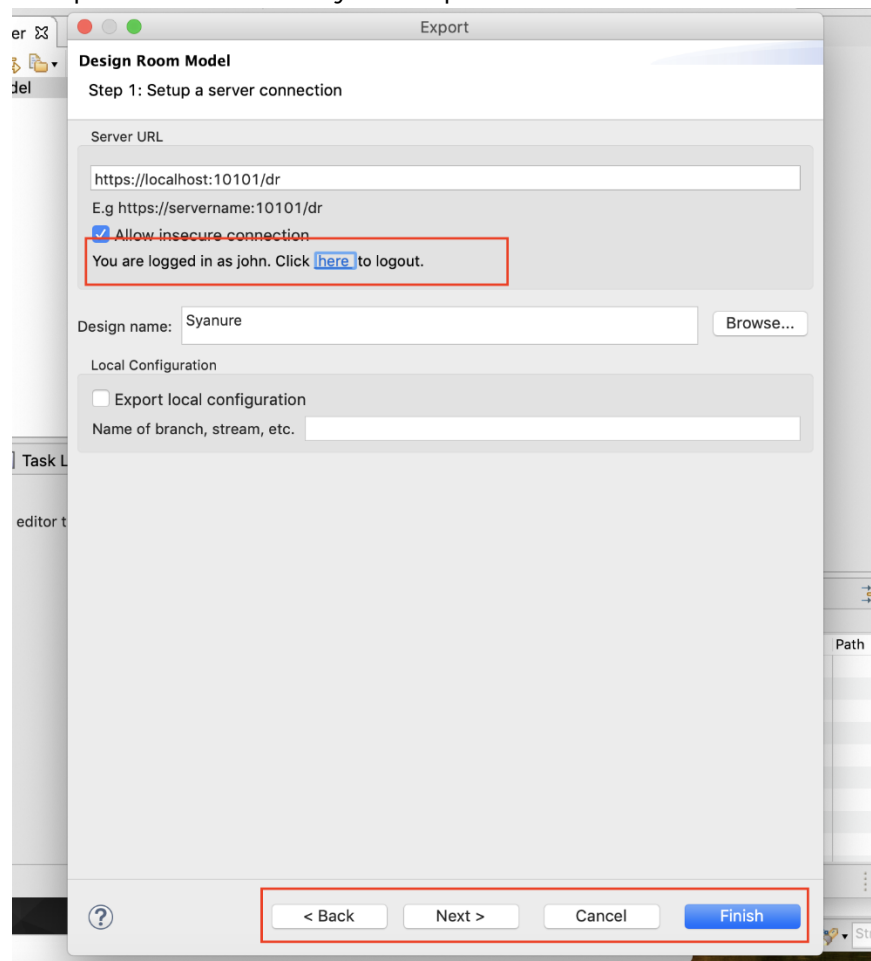
Once you click on hyperlink here, you will be redirected to the native browser to login



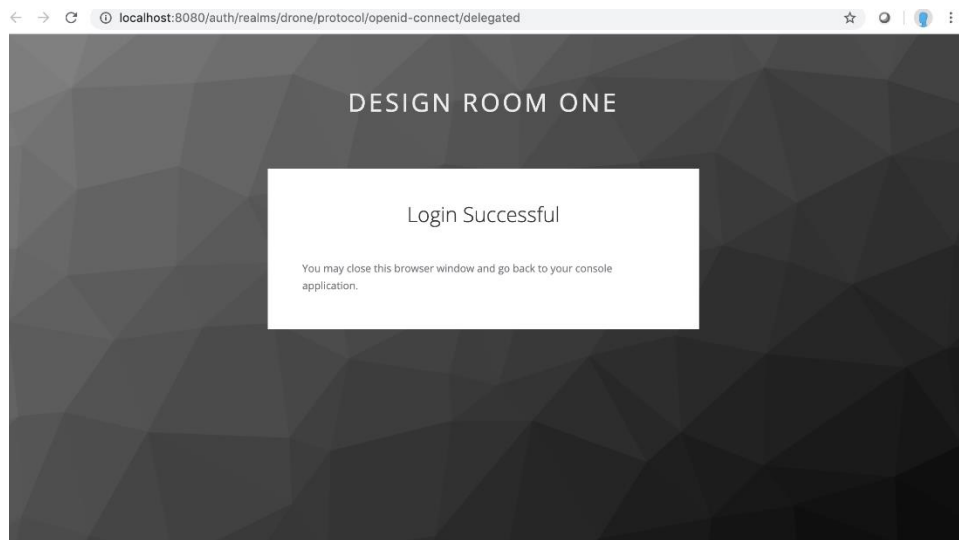
After a successful login, you will see the message



Once you go back to your modeling tool, you will see that you are logged in and can proceed to make your export



To logout, you can click on the here link again and the window below will open in your native browser.



Single Sign-On with Jazz Authorization Server via OpenID

Prerequisites

1. Ensure the [Jazz Authorization Server](#) (JAS) is installed
2. Ensure the Keycloak 7.0.1 Server installed

Creating a New Identify Provider in Keycloak

1. Login into Keycloak server as admin
2. Click on DRONE realm on the top left
3. Click on Identity Providers left menu open
4. Under the dropdown, select OpenID Connect v1.0 as shown below

The screenshot shows the Keycloak administration interface. The left sidebar contains a menu with the following items: Drone, Configure (Realm Settings, Clients, Client Scopes, Roles, Identity Providers, User Federation, Authentication), and Manage (Groups, Users, Sessions, Events, Import). The 'Identity Providers' item is highlighted with a red box. The main content area is titled 'Identity Providers' and contains a table with the following data:

Name	Provider	Enabled	Hidden	Link only	GUI order
JAAServer	oidc	True	False	False	

Below the table is a red box containing the 'Add provider...' button. A dropdown menu is open, showing the following options: 'Add provider...', 'User-defined', 'SAML v2.0', 'OpenID Connect v1.0' (highlighted with a red box), 'Keycloak OpenID Connect', and 'Social' (with sub-items: GitHub, Twitter, Facebook, Openshift v3, Google, GitLab, LinkedIn, Instagram, Microsoft, BitBucket, PayPal, StackOverflow).

5. Create the alias name of your choice and use the redirect URI below to proceed in the next steps

6. You will notice that you are missing a few required fields such as “Authorization URL”, “Token URL”, “Client ID” and “Client Secret”. We will get these values from the jazz authorization server and complete the form later. Make note of the “Redirect URI” as we will need it in the next step.

Setting up JAS Configuration Security

If the JAS server is started with a self-signed certificate or no certificate at all, modify the `oauthProvider` element in the `appConfig.xml` file as shown below. Change the `httpsRequired` attribute to `false`.

```
<oauthProvider id="JazzOP"
  httpsRequired="false"
  autoAuthorize="true"
  customLoginURL="/jazzop/form/login"
  accessTokenLifetime="7201"
  authorizationGrantLifetime="604801">
  <autoAuthorizeClient>client01</autoAuthorizeClient>
  <databaseStore dataSourceRef="OAuthFvtDataSource" />
</oauthProvider>
```

Creating a Relying Party Application in JAS

1. Create a body.json file as shown below and make sure that you also add the above Keycloak redirect URI to the list of redirect_uris

```
{
  "token_endpoint_auth_method":"client_secret_basic",
  "scope":"openid profile email general",
  "grant_types":[
    "authorization_code",
    "client_credentials",
    "implicit",
    "refresh_token",
    "urn:ietf:params:oauth:grant-type:jwt-bearer"
  ],
  "response_types":[
    "code",
    "token",
    "id_token token"
  ],
  "application_type":"web",
  "subject_type":"public",
  "preauthorized_scope":"openid profile email general",
  "introspect_tokens":true,
  "trusted_uri_prefixes":[
    "https://keycloak.mycomp.any:*"
  ],
  "redirect_uris":[
    "http://keycloak.mycomp.any:8080/auth/realms/drone/broker/oidc/endpoint",
    "https://keycloak.mycomp.any:8443/auth/realms/drone/broker/oidc/endpoint"
  ]
}
```

Open command line and run the below command to create an application in the JAS server

```
curl --insecure --user admin:password --data @"./body.json"
http://jas.mycomp.any:9280/oidc/endpoint/jazzop/registration --header
"Content-Type: application/json"
```

2. If successful, the JAS server will respond with a response as shown below

```
{
  "client_id_issued_at":1583359157,
  "registration_client_uri":"https://localhost:9643/oidc/endpoint/jazzop/registration/d5852705ab4f4204ae29812373537277",
  "client_secret_expires_at":0,
  "token_endpoint_auth_method":"client_secret_basic",
  "scope":"openid profile email general",
  "grant_types":[
    "authorization_code",
    "client_credentials",
    "implicit",
    "refresh_token",
    "urn:ietf:params:oauth:grant-type:jwt-bearer"
  ],
  "response_types":[
    "code",
    "token",
    "id_token token"
  ],
  "application_type":"web",
  "subject_type":"public",
  "preauthorized_scope":"openid profile email general",
  "introspect_tokens":true,
  "trusted_uri_prefixes":[
    "https://localhost:*/"
  ],
  "resource_ids":[]
},
{
  "client_id":"d5852705ab4f4204ae29812373537277",
  "client_secret":"p7Da1WpAxs0ujm80mFn9pN2HDVXXtDEWXJy3pIa792TNgfUyGbU7tyKXPGSd",
  "client_name":"d5852705ab4f4204ae29812373537277",
  "redirect_uris":[
    "http://localhost:8080/auth/realms/drone/broker/oidc/endpoint",
    "https://localhost:8443/auth/realms/drone/broker/oidc/endpoint"
  ],
  "allow_regexp_redirects":false
}
```

3. Note that we now have a valid client_id and client_secret to complete the creation of our identity provider application in Keycloak. Please make a note of that client_id and client_secret.
4. Browsing to the public endpoint <http://jas.mycomp.any:9280/oidc/endpoint/jazzop/.well-known/openid-configuration> will provide the remaining Authorization and token URLs of the JAS server assuming the JAS http server is started locally and on port 9280. A sample response is shown below.

```
{
  "introspection_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/introspect",
  "coverage_map_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/coverage_map",
  "issuer":"http://localhost:9280/oidc/endpoint/jazzop",
  "authorization_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/authorize",
  "token_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/token",
  "jwks_uri":"http://localhost:9280/oidc/endpoint/jazzop/jwk",
  "response_types_supported":[
    "code",
    "token",
    "id_token token"
  ],
  "subject_types_supported":[
    "public"
  ],
  "id_token_signing_alg_values_supported":[
    "HS256"
  ],
  "userinfo_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/userinfo",
  "registration_endpoint":"http://localhost:9280/oidc/endpoint/jazzop/registration",
  "scopes_supported":[
    "openid",
    "general",
    "profile",
    "email",
    "address",
    "phone"
  ],
  "claims_supported":[
    "sub",
    "groupIds",
    "name",
    "preferred_username",
    "picture",
    "locale",

```

5. We can now proceed back to Keycloak admin web page and finalize the identity provider form.

Creating a New Identify Provider in Keycloak Continued

Fill in the Client ID, Client Secret and other fields as shown in the picture below.

Clients
Client Scopes
Roles
Identity Providers
User Federation
Authentication
e
Groups
Users
Sessions
Events
Import
Export

Redirect URI ?
http://localhost:8080/auth/realms/drone/broker/oidc/endpoint

* Alias ?
oidc

Display Name ?
JAServer

Enabled ?
ON

Store Tokens ?
ON

Stored Tokens Readable ?
OFF

Trust Email ?
OFF

Account Linking Only ?
OFF

Hide on Login Page ?
OFF

GUI order ?

First Login Flow ?
first broker login

Post Login Flow ?

OpenID Connect Config ?

* Authorization URL ?
http://localhost:9280/oidc/endpoint/jazzop/authorize

Pass login_hint ?
OFF

Pass current locale ?
OFF

* Token URL ?
http://localhost:9280/oidc/endpoint/jazzop/token

Logout URL ?
http://localhost:9280/oidc/endpoint/jazzop/end_session

Backchannel Logout ?
ON

Disable User Info ?
OFF

User Info URL ?

* Client ID ?
e66dc5022b8e434baf5302725f7a30e6

* Client Secret ?

After all required fields are completed, click the “Save” button.

Logging in with JAS Authentication

1. Ensure that Keycloak is enabled in your Design Room ONE server (i.e. server-config.json) file. Start your Design Room ONE server and navigate to some URL e.g. <https://drone.mycomp.any:10101/dr/web>
You should see the new identify provider option (JAServer) as shown here.

DESIGN ROOM ONE

Log In

Username or email

Password

Log In

JAServer

2. Click on JAServer option and you will be redirected to the JAS server to login

jazz
AUTHORIZATION SERVER

The Jazz Authorization Server at localhost requires a user ID and password:



User ID:

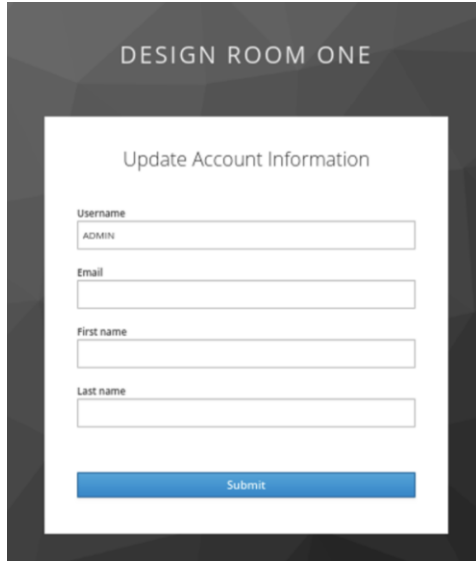
Password:

Log In

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3. After a successful login you will be redirected back to the Keycloak server to add additional details for the user.



The screenshot shows a web interface titled "DESIGN ROOM ONE" at the top. Below the title is a form titled "Update Account Information". The form contains four input fields: "Username" (with the value "ADMIN" entered), "Email", "First name", and "Last name". At the bottom of the form is a blue "Submit" button.

After a successful completion of the form, you will be directed back to the Design Room ONE page you navigated.

Known Limitations

1. After clicking on logout link in the exporting wizard in a modeling tool a web browser with a message "Login Successful" appears, the message should say "Logout Successful".