

Architecture for Scalable, Self-*, human-centric,
Intelligent, Secure, and Tactile next generation IoT

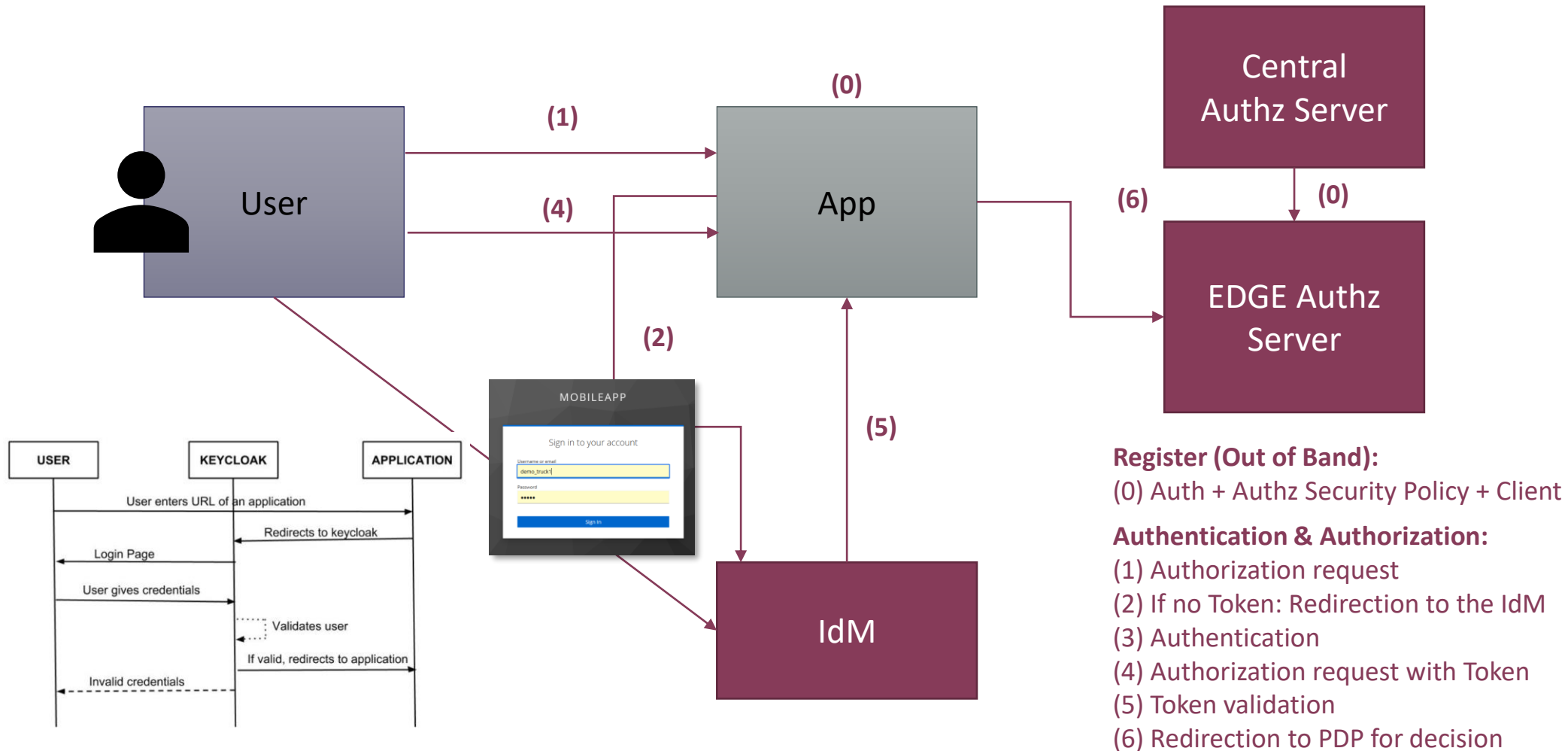
assist-IoT

**IDM Step by Step Configuration
manual**

S21Sec



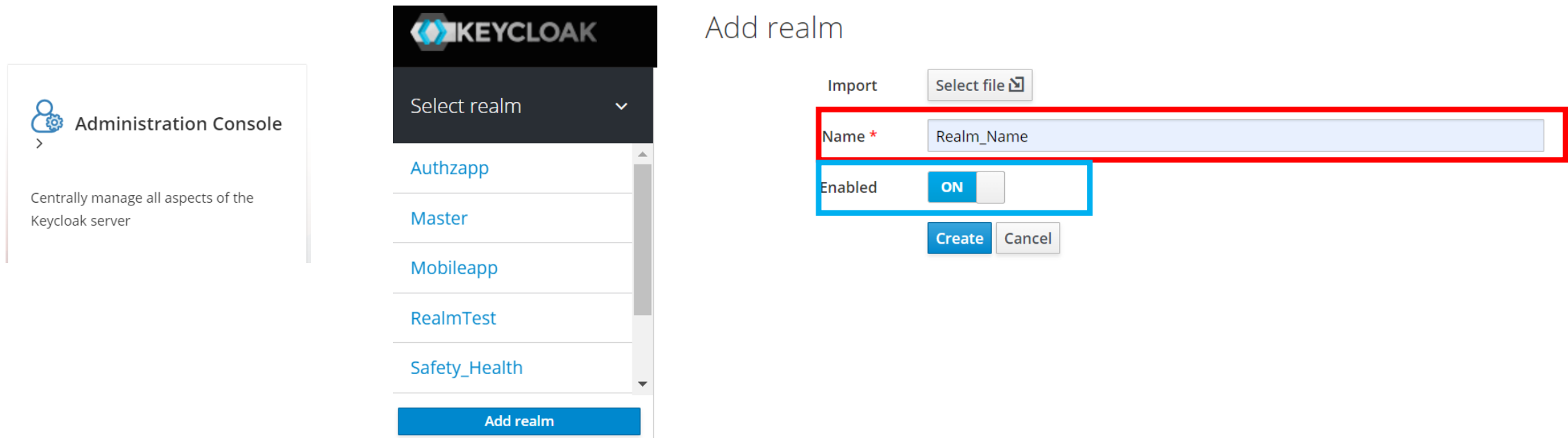
T5.3 E1-E2 Authz + IdM



T5.3 E2 IdM Configuration

Step 1: Go into the app and configure the Realm

- What is the Realm?
 - It is a space where you manage objects, including users, applications, roles, and groups
 - It is the Domain where the user/password/role will be configured



The screenshot displays the Keycloak Administration Console interface. On the left, the 'Administration Console' sidebar is visible, featuring a user icon and the text 'Centrally manage all aspects of the Keycloak server'. The main content area shows a 'Select realm' dropdown menu with a list of realms: 'Authzapp', 'Master', 'Mobileapp', 'RealmTest', and 'Safety_Health'. Below this list is a blue 'Add realm' button. To the right, the 'Add realm' dialog is open. It includes an 'Import' section with a 'Select file' button. The 'Name' field is highlighted with a red border and contains the text 'Realm_Name'. The 'Enabled' checkbox is checked, indicated by a blue border and the text 'ON'. At the bottom of the dialog are 'Create' and 'Cancel' buttons.

KEYCLOAK

Select realm ▼

- Authzapp
- Master
- Mobileapp
- RealmTest
- Safety_Health

Add realm

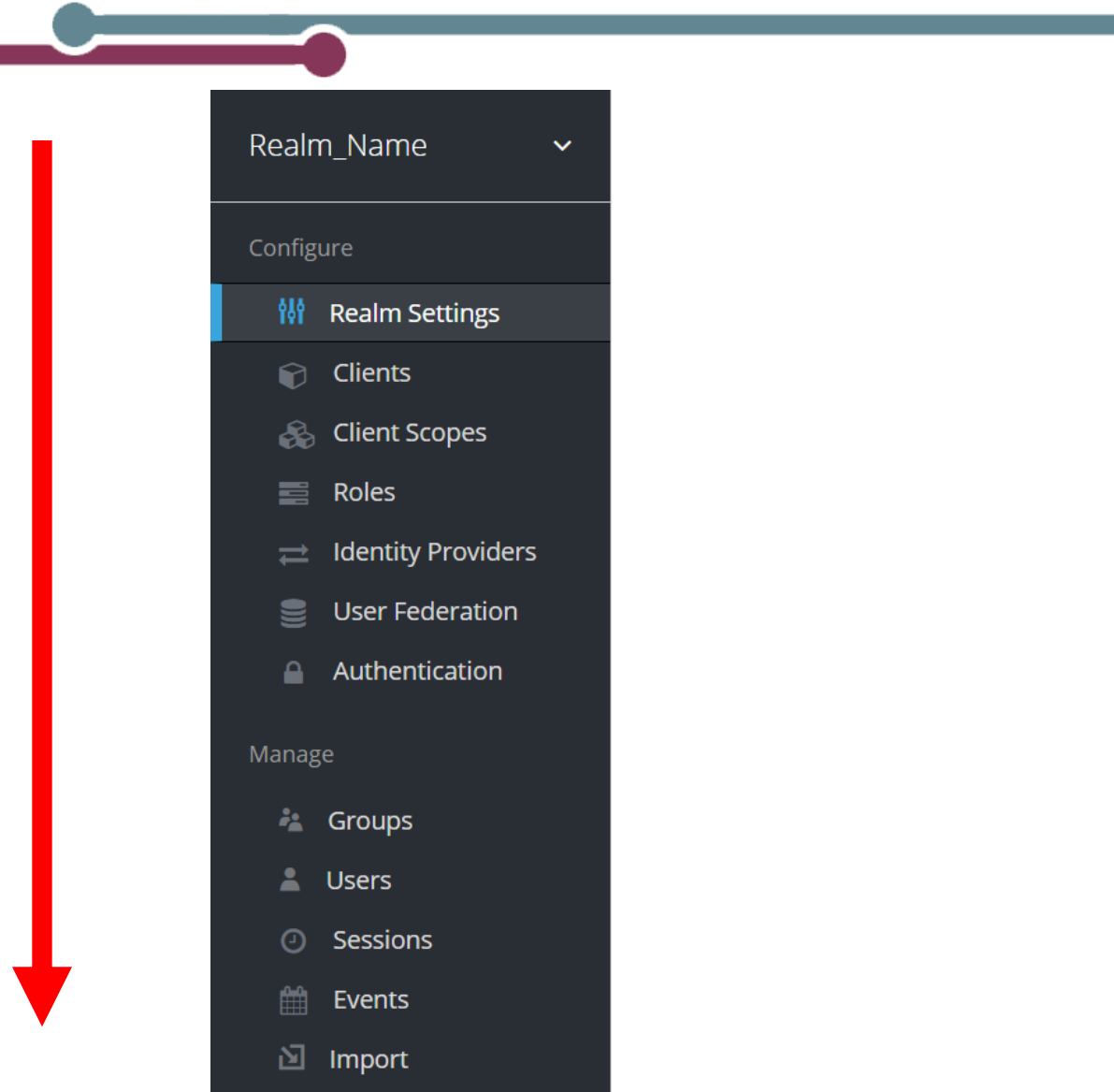
Import Select file

Name * Realm_Name

Enabled ON

Create Cancel

T5.3 E2 IdM Configuration



T5.3 E2 IdM Configuration

Step 2: Setup the Client (The App)

- Create the Client
 - Click on Create
 - Enter your Client ID and save

Clients > Add Client

Add Client

Import

Client ID *

Client Protocol

Root URL

Clients

[Lookup](#)

Search...	Q	<input type="button" value="Create"/>				
Client ID	Enabled	Base URL	Actions			
account	True	http://192.168.15.164:8080/auth/realms/Realm_Name/account/	Edit	Export	Delete	
account-console	True	http://192.168.15.164:8080/auth/realms/Realm_Name/account/	Edit	Export	Delete	
admin-cli	True	Not defined	Edit	Export	Delete	
broker	True	Not defined	Edit	Export	Delete	
realm-management	True	Not defined	Edit	Export	Delete	
security-admin-console	True	http://192.168.15.164:8080/auth/admin/Realm_Name/console/	Edit	Export	Delete	

T5.3 E2 IdM Configuration

Step 2: Setup the Client (The App)

- Settings tab
 - Change access type to “confidential”
 - Change “Service Accounts Enabled” to ON
 - Enter valid Redicted URI

* Valid Redirect URIs ⓘ

http://myaddress/myapp

–

+

Access Type ⓘ confidential

Standard Flow Enabled ⓘ ON

Implicit Flow Enabled ⓘ OFF

Direct Access Grants Enabled ⓘ ON

Service Accounts Enabled ⓘ ON

OAuth 2.0 Device Authorization Grant Enabled ⓘ OFF

T5.3 E2 IdM Configuration

Step 2: Setup the Client (The App)

- Roles tab

- Check the existing Roles
- Add new role
- Configure the role

Clients > IDMClient

IDMClient

Settings Credentials Keys Roles Client Scopes ? Mappers ? Scope ? Revocation Sessions ? Offline Access ?

Clustering Installation ? Service Account Roles ?

Search... View all roles Add Role

No client roles available

Clients > IDMClient > Roles > Add Role

Add Role

Role Name * admin

Description admin role description

Save Cancel

T5.3 E2 IdM Configuration

Step 3: Setup the ClientScopes

- To add to userinfo's json the roles information
- Roles tab
 - Go to Roles
 - Go to Mappers
 - Select ClientRoles
 - Add to user info = ON

Claim JSON Type

Add to ID token ☐

Add to access token ☐

Add to userinfo ☐

Roles

Client Scopes > roles

Roles

Settings

Search...			
Name	Category	Type	
audience resolve	Token mapper	Audience Resolve	
realm roles	Token mapper	User Realm Role	
client roles	Token mapper	User Client Role	

Client Scopes

Search...		
Name	Protocol	
address	openid-connect	
email	openid-connect	
microprofile-jwt	openid-connect	
offline_access	openid-connect	
phone	openid-connect	
profile	openid-connect	
role_list	saml	
roles	openid-connect	
web-origins	openid-connect	

T5.3 E2 IdM Configuration

Step 4: Setup Users

- Create new Users
 - Check the existing Users
 - Add new user
 - Create the username

Users > Add user

Add user

Users

Lookup

Search...

View all users

Please enter a search, or click on view all users

Unlock user

Add user

ID

Created At

Username *

idm_user1

Email

First Name

Last Name

User Enabled ?

ON

Email Verified ?

OFF

Groups ?

Select existing group...

No group selected

After saving this info is displayed in details tab

T5.3 E2 IdM Configuration

Step 4: Setup Users

- Create Password

- Check the existing Users
- Select the user
- Go to Credentials
- Type the Pass twice
- Click on Set Password

The screenshot illustrates the steps to set a password for a user in the IdM configuration interface. The interface is divided into two main sections: 'Users' and 'Idm_user1' details.

Users Section:

- A 'Lookup' button is at the top.
- A search bar with 'Search...' text is present.
- A 'View all users' button is highlighted with a red box.
- A table lists users with columns: ID, Username, Email, Last Name, First Name, and Actions.
- The user '5cfce8a8-128d-449f-a...' with username 'idm_user1' is selected, highlighted with a blue box.
- Buttons 'Unlock users' and 'Add user' are on the right.

Idm_user1 Section:

- Tabs for 'Details', 'Attributes', 'Credentials', 'Role Mappings', 'Groups', 'Consents', and 'Sessions' are shown.
- The 'Credentials' tab is highlighted with a green box.
- Below the tabs, a 'Manage Credentials' table is visible with columns: Position, Type, User Label, Data, and Actions.
- The 'Set Password' section is highlighted with a yellow box and contains:
 - Two password input fields labeled 'Password' and 'Password Confirmation', each with a toggle icon.
 - A 'Temporary' checkbox set to 'OFF'.
 - A 'Set Password' button highlighted with a purple box.

Arrows indicate the workflow: a red arrow points from 'Check the existing Users' to the 'View all users' button; a blue arrow points from 'Select the user' to the selected user row; a green arrow points from 'Go to Credentials' to the 'Credentials' tab; a yellow arrow points from 'Type the Pass twice' to the password input fields; and a purple arrow points from 'Click on Set Password' to the 'Set Password' button.

T5.3 E2 IdM Configuration

Step 4: Setup Users

- Assign Client-Role

- Check the existing Users
- Select the user
- Go to Role Mappings
- Select your Client
- Add the proper Role

The screenshot displays the IdM Users management interface. At the top, the 'Users' section includes a 'Lookup' button and a search bar. A red box highlights the 'View all users' button. Below this, a table lists users, with 'idm_user1' selected and highlighted by a blue box. A red arrow points from the 'View all users' button to the 'idm_user1' entry. Below the table, the 'Idm_user1' details page is shown, with the 'Role Mappings' tab selected and highlighted by a green box. A green arrow points from the 'Role Mappings' tab to the 'Role Mappings' section below. In the 'Role Mappings' section, the 'Client Roles' dropdown is set to 'IDMClient'. A yellow box highlights the 'IDMClient' option in the dropdown, with a yellow arrow pointing from the 'Role Mappings' tab to it. Below the dropdown, the 'Available Roles' list shows 'admin' selected and highlighted by a purple box. A purple arrow points from the 'admin' role to the 'Add selected' button, which is also highlighted by a purple box. A yellow arrow points from the 'Add selected' button to the 'Assigned Roles' list, which is currently empty.

Users

Lookup

Search...

View all users

Unlock users Add user

ID	Username	Email	Last Name	First Name	Actions
5cfce8a8-128d-449f-a...	idm_user1				Edit Impersonate Delete

Idm_user1

Details Attributes Credentials Role Mappings Groups Consents Sessions

Idm_user1

Details Attributes Credentials Role Mappings Groups Consents Sessions

Realm Roles

Available Roles

offline_access uma_authorization

Add selected >

Assigned Roles

default-roles-realm_name

<< Remove selected

Effective Roles

default-roles-realm_name offline_access uma_authorization

Client Roles

IDMClient

1 Available Roles

admin

2 Add selected >

Assigned Roles

<< Remove selected

Effective Roles

Idm_user1

Details Attributes Credentials Role Mappings Groups Consents Sessions

Client Roles

Select a client...

IDMClient

account

account-console

admin-cli



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