

## EP4 -- Keys to the Kingdom

Video: 2:22 | 8 Scenes | Read slowly, pause VLC at each scene

### 0:00-0:10 -- Chrome Opens + Loading

This is Keycloak -- the identity and access management layer that runs our entire platform. Every user, every role, every permission flows through here.

### 0:10-0:20 -- Login Page

Standard OIDC login. Username, password, JWT token back. This is the admin console -- the master control panel.

### 0:20-0:35 -- Master Dashboard

We're in the master realm now. This is the god view -- you can see everything from here. Server info shows us Keycloak 24 running on Java 17.

### 0:35-0:55 -- REALM DROPDOWN (Money Shot)

And here's the magic -- one Keycloak instance, SIX business realms. Each business gets its own realm with its own users, roles, and clients. 420 Wholesale, Artemis Headshop in Luzern, BlowUp in Littau -- each one completely isolated.

### 0:55-1:10 -- POS Users List

Let's look inside the POS realm. Nine users, each with specific roles. Pam is a cashier, Ralph is a manager, Michael is a developer. The system knows exactly what each person can do.

#### **1:10-1:25 -- User Detail + Role Mapping**

Aleena here has two roles -- pos-cashier and pos-manager. The cashier role lets her process transactions with up to 10% discount. The manager role gives her full product management and reporting. This is real RBAC -- role-based access control.

#### **1:25-1:40 -- Clients**

Three custom clients: the mobile app, the service account for backend operations, and the web application for POS terminals. Each one has its own OAuth2 configuration, its own scopes, its own permissions.

#### **1:40-2:00 -- Realm Tour (420, Artemis, BlowUp)**

Quick tour of the other businesses -- each one gets the same treatment. Their own realm, their own identity. When we onboard a new client, we spin up a realm, configure their roles, and they're live. This is what makes HelixNet a real multi-tenant platform.

#### **2:00-2:22 -- Final Dropdown + Close**

Back to master. Six realms, one platform. This is the foundation that everything else builds on. SAP charges six figures for this. We built it with open source.

#### **Recording Tips:**

1. Play the MP4 on VLC, pause at each scene transition
2. Read the text naturally -- don't rush, you'll sync in post
3. Jabra mic close to mouth, consistent distance
4. Quiet moment between scenes (1-2 seconds silence) makes editing easier
5. If you flub a line, pause, then re-read the whole block -- easier to cut in post
6. Total read time should be ~2:30 to 3:00 (slightly longer than video is fine)

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## EP4 -- Keys to the Kingdom -- HelixNet Keycloak Series