



# FridayTalk: Tailoring Keycloak.

How to customise authentication flow

# Agenda.

01

**What is Keycloak?**

02

**Built-in Keycloak flows**

03

**Why and how to customise?**

04

**Demo**

05

**Where to find example implementation?**

06

**QA**



# What is Keycloak?

01

**Open-source identity and access management solution**

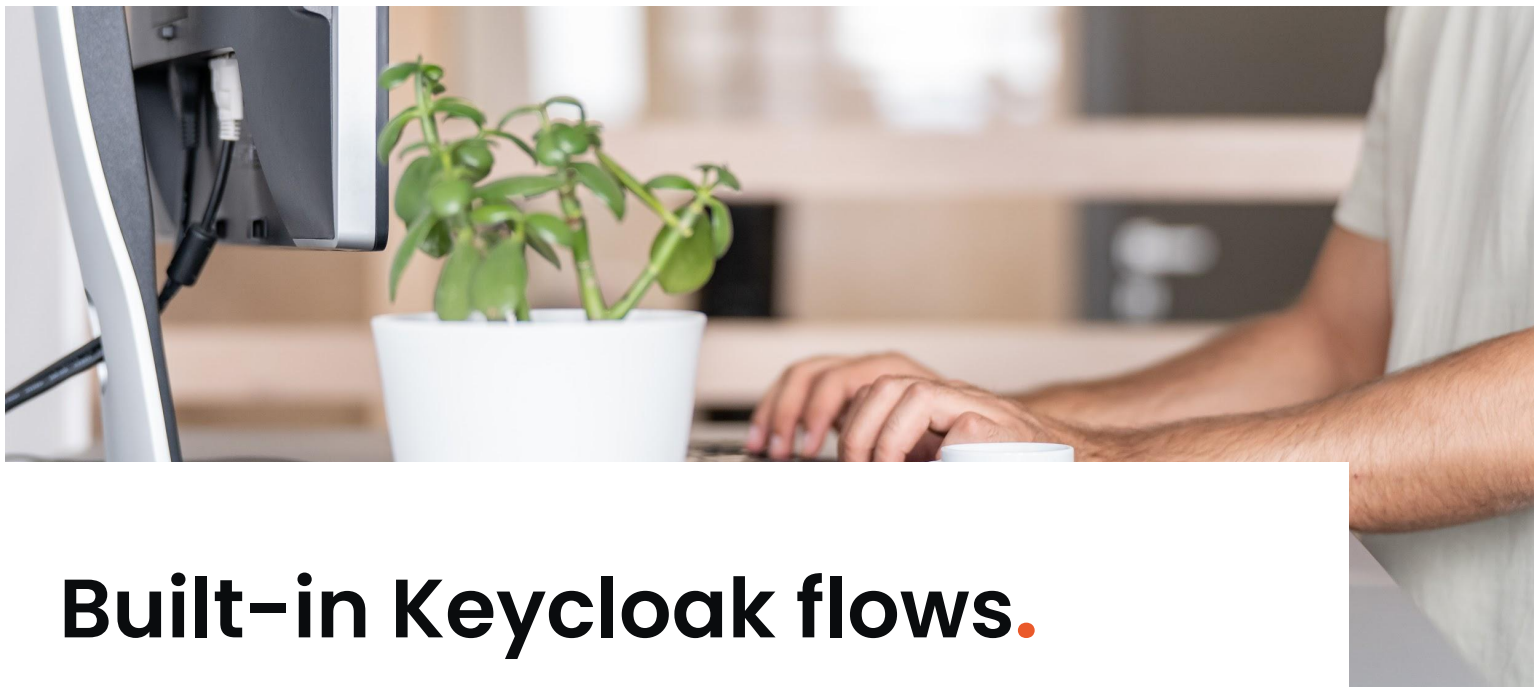
02

**Key features: SSO, OAuth2, OpenID Connect, SAML**

03

**Centralized user, role, and group management**





# Built-in Keycloak flows.

How Keycloak works out-of-the-box

# Browser flow



**triggered when a user attempts to log in to an app through their web browser**

**Sub-flows,  
required actions,  
optional actions,  
conditional  
actions**

**customisable**

# Registration flow



**triggered when a  
user creates a new  
account**

**required actions,  
optional actions**

**customisable**

# Why customise?



**Custom validations for strict business rules (e.g., username uniqueness across systems)**

**Integration with external systems for data sync (CRM, fraud prevention)**

**Enhanced security measures during registration**

# How?



**SPIs (Service Provider Interfaces)**

**Custom providers**



# Demo overview.



our requirement

**self-registration**

**only PD emails  
allowed to  
register**

**external API  
validates email**

implementation

**identifying point of  
customisation**

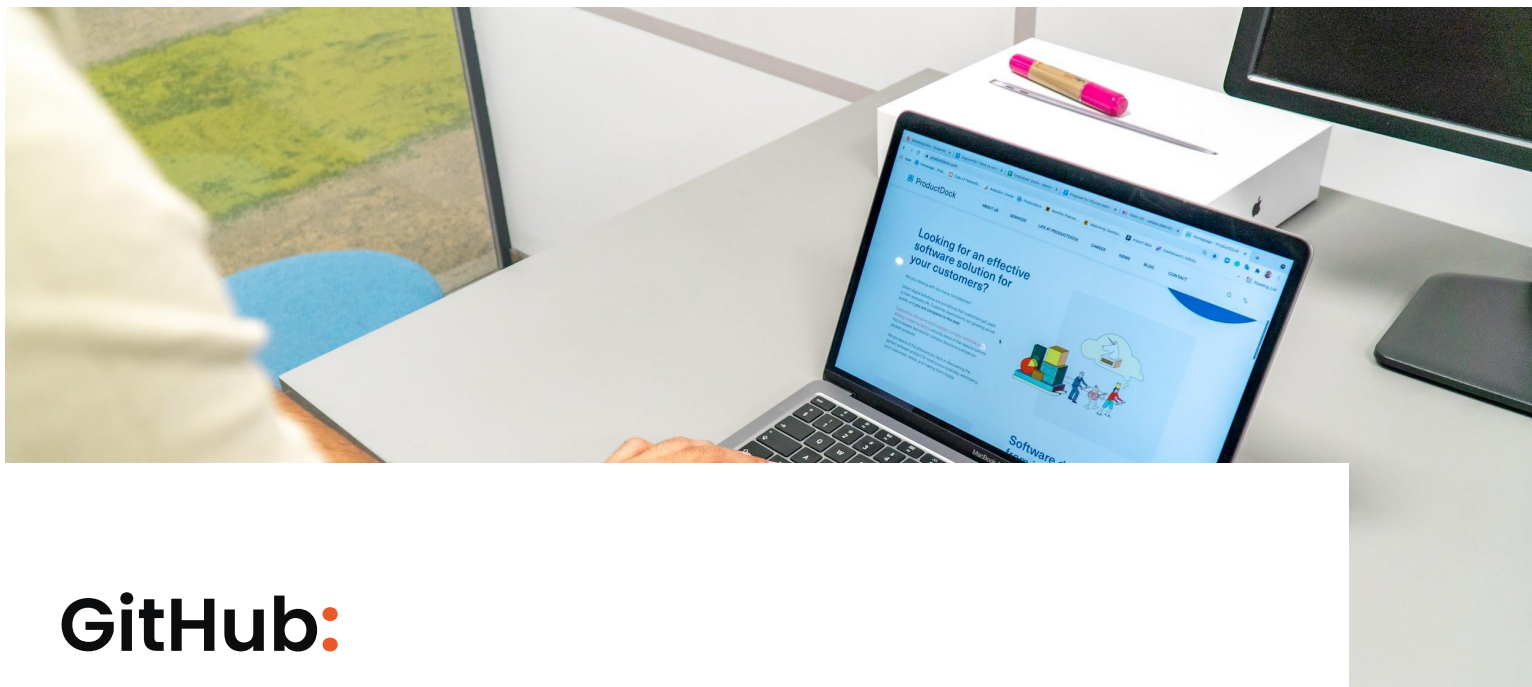
**Registration User  
Creation**

demo

**extension**

**containerisation**

**setup in admin  
console**



# GitHub:

<https://github.com/ninababicpd/keycloak-customisation>



**Questions?**



**Thank you!**