

Designing Secure Microservices with Keycloak (LFWS305)

OEM: Linux Foundation • Duration: 1 Day (8 hrs) • Code: LFWS305

COURSE MODULES & TOPICS

Course Introduction

Getting Started with Keycloak

- Lab: Keycloak Admin Console Walkthrough

Common Use Cases And Why

Securing Microservices

- Lab: Local Keycloak Setup Using Docker
- Lab: Configure API Security

Social Logins

- Lab: Configure Google and GitHub as Social Identity Providers

Token Validation and API Gateway Integration

- Lab: Protect Multiple Microservices Behind a Gateway Using Keycloak
- Lab: Use Keycloak Authorization Services to Restrict API Access by User Role

Deploying Keycloak on Kubernetes

- Lab: Deploy and Scale the Keycloak Setup on Kubernetes

Keycloak In Production

- Lab: Simulate a High-Availability Production Keycloak Setup

Hardening and Troubleshooting

- Lab: Audit and Harden a Keycloak Configuration (token expiration, session timeout, secret rotation)