

# Keycloak Material

## 1. Keycloak installation

- a. Download Keycloak version 23 from [OpenJDK - Keycloak](#).
- b. Extract file and run the follow commands:
  - i. Bin/kc.bat start-dev -> run in development mode.
  - ii. Bin/kc.bat -> run in production mode.
- c. Its now up on port 8080.

## 2. Quick screens guide

- a. Follow this link to explain Keycloak screens (users, roles, realms, clients, groups, etc.) [OpenJDK - Keycloak](#)

## 3. Keycloak definitions

- a. Protocol mappers -> [Token and Assertion Mappings | keycloak-documentation \(gitbooks.io\)](#)
- b. Integrate with ldap -> [How to integrate Keycloak with AD/LDAP? - Keycloak on AWS \(aws-samples.github.io\)](#)

## 4. Keycloak customization

- a. Custom Authenticator follow this link-> [Creating Conditional Authenticator in Keycloak | by Rishabh Singh | Medium](#)
- b. Custom themes follow this link -> [Customizing Themes for Keycloak | Baeldung](#)
- c. Custom protocol mappers -> [Custom Protocol Mapper with Keycloak | Baeldung](#)

## 5. Keycloak admin rest apis

- a. All Keycloak admin apis follow this link -> [Keycloak Admin REST API](#)

## 6. Keycloak clients

- a. Java -> [A Quick Guide to Using Keycloak with Spring Boot | Baeldung](#)
- b. Nodejs -> [Node.js Adapter | keycloak-documentation \(gitbooks.io\)](#)

## 7. Keycloak authentication

- a. Authentication flow -> [Authentication Flows | keycloak-documentation \(gitbooks.io\)](#)
- b. Policies -> [Password Policies | keycloak-documentation \(gitbooks.io\)](#)

## 8. Keycloak clients

- a. Follow this link -> [Managing Clients | keycloak-documentation \(gitbooks.io\)](#)

## 9. Auditing and events

- a. Login events -> [Login Events | keycloak-documentation \(gitbooks.io\)](#)
- b. Admin events -> [Admin Events | keycloak-documentation \(gitbooks.io\)](#)