Keycloak Installation Guide

<u>Version 1.0</u>

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VERBAT

Who should read this document:

This document is *ideally* meant for IT Staff as it is technical in nature

      a. System Administrators
      b. DevOps team members
      c. Network experts
      d. Project administrator's seeking technical guidance for installation of the 'OER' project.

What this document does not intend to be a tutorial hence the above requirements.

Pre-requisites:

1. Install CentOS Server on an server class computer in a location of your choice
2. Make sure you set up remote access complying to your organisation's IT standard while allowing remote access for emergency / external support.
3. Make sure you server is configured to allow access to the other services in the DMZ(De Militarised Zone) and over the internet when needed.
4. Note: Upto this point we are setting a standard Linux instance. Please feel free to make necessary security provision's as per your organisation's norms.
5. *We assume you have already setup the API Service and its dependencies.*
6. *Retrieve and have and have a copy of deployable binaries ready (which is delivered digitally)*

Development Setup Instructions

- Follow the documentation in the link below to setup keycloak
  https://hub.docker.com/r/jboss/keycloak/

  Theme Setting

  Copy the contents of OER.zip to the Keycloak installation folder under the
  `/opt/jboss/keycloak/themes`

  Edits Needed in the OER.Zip are

- /login/template.ftl

- /login/header.ftl

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<li><a href="http://18.220.63.117/terms-of-service">Terms of

Service</a></li> <li><a href="http://18.220.63.117/privacy-

policy">Privacy Policy</a></li> <li><a

href="http://18.220.63.117/how-it-works">How it Works</a></li>
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Change all the hardcoded IP to the IP Address of the Angular-Client Server.

All theme types, except welcome, are configured through the Admin Console. To change the theme used for a realm open the Admin Console, select your realm from the drop-down box in the top left corner. Under Realm Settings click Themes.

Create/Import Realm settings from json file (realm-settings.json in repo)

To import realm settings for Keycloak, please refer:

https://www.keycloak.org/docs/6.0/server_admin/#_create-realm

Configure User Registration

To configure user registration, please follow the instructions at

https://www.keycloak.org/docs/2.5/server_admin/topics/users/user-registration.html

ReCaptcha Configuration

To configure Google Re-captcha, please follow the instructions at
https://www.keycloak.org/docs/2.5/server_admin/topics/users/recaptcha.html

Setting up Password

To set up the password requirement, please follow the instructions at

https://www.keycloak.org/docs/2.5/server_admin/topics/authentication/password-policies.html

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Configure the mail client for Keycloak

To configure the mail client for Keycloak, please refer:

https://www.keycloak.org/docs/3.2/server_admin/topics/realms/email.html

Setting up SSL

To set up the SSL requirement, please follow the instructions at

https://www.keycloak.org/docs/latest/server_installation/index.html#setting-up-https-ssl