Keycloak 2FA Email Authenticator

Keycloak Authentication Provider implementation to get a two factor authentication with an OTP (One-time-password) send via Email (through SMTP).

When logging in with this provider, you can send a verification code (OTP) to the user's e-mail address. Tested with Keycloak version 26.x. If you are using a different Keycloak version, don't forget to change the version in pom.xml file.

The Server Development part of the Keycloak reference documentation contains additional resources and examples for developing custom Keycloak extensions.

#### Development

If you are using Eclipse, you need to install the Lombok plugin, otherwise Eclipse cannot resolve log which is declared at runtim through @JBossLog annotation. Find further information at https://projectlombok.org/setup/eclipse

### 🚀 Deployment

Artifact

You can download the necessary artifacts for Keycloak 2FA Email Authenticator from the release on GitHub. Please choose the appropriate version based on your Keycloak installation.

#### Providers

mvn package will create a jar file. copy keycloak-2fa-email-authenticator.jar to **keycloak/providers/** directory.

If you are Dockerized keycloak then copy to **/opt/jboss/keycloak/standalone/deployments/** directory.

Build

Don't forget to start kc.sh with build parameter to make KeyCloak recognize the new povider:

bin/kc.sh build

Configuration

Email Configuration

Don't forget to configure your realm's SMTP settings, otherwise no email will be send:

* Login as admin on your KeyCloak installation.
* Switch to your realm
* Click Realm settings from the menu on the left.
* Click on the Email-tab and enter your smpt data.
* Authentication Flow

Create new browser login authentication flow and add Email OTP flow after Username Password Form.

