

Starting with version 0.3.0.

Coordinates:

```
<dependency>
  <groupId>org.apache.meecrowave</groupId>
  <artifactId>meecrowave-oauth2</artifactId>
  <version>${meecrowave.version}</version>
  </dependency>
```

A small OAuth2 server based on CXF implementation.

See http://cxf.apache.org/docs/jax-rs-oauth2.html for more details.

Here is the current configuration (mainly based on CXF one):

Name	Description
oauth2-access-token-lifetime	How long an access token is valid, default to 3600s
oauth2-authorization-code-support	Is authorization code flow supported
oauth2-block-unsecure-requests	Should unsecured requests be blocked
oauth2-client-force	Is a client mandatory or can a token be issued without any client
oauth2-default-scopes	Comma separated list of default scopes
oauth2-encrypted-algorithm	The algorithm for the key for the encrypted provider
oauth2-encrypted-key	The key for encrypted provider
oauth2-invisible-scopes	Comma separated list of invisible to client scopes
oauth2-jcache-config	JCache configuration uri for the cache manager (jcache or provider)
oauth2-jcache-jmx	Should JCache JMX MBeans be enabled
oauth2-jcache-loader	The loader bean or class name
oauth2-jcache-statistics	Should JCache statistics be enabled
oauth2-jcache-store-jwt-token-key-only	Should JCache store jwt token key only (jcache provider)
oauth2-jcache-store-value	Should JCache store value or not
oauth2-jcache-writer	The writer bean or class name
oauth2-jpa-database-driver	JPA database driver for jpa provider
oauth2-jpa-database-password	JPA database password for jpa provider
oauth2-jpa-database-url	JPA database url for jpa provider
oauth2-jpa-database-username	JPA database username for jpa provider

Name	Description
oauth2-jpa-max-active	JPA max active connections for jpa provider
oauth2-jpa-max-idle	JPA max idle connections for jpa provider
oauth2-jpa-max-wait	JPA max wait for connections for jpa provider
oauth2-jpa-properties	JPA persistence unit properties for jpa provider
oauth2-jpa-test-on-borrow	should connections be tested on borrow for jpa provider
oauth2-jpa-test-on-return	should connections be tested on return for jpa provider
oauth2-jpa-validation-interval	validation interval for jpa provider
oauth2-jpa-validation-query	validation query for jpa provider
oauth2-jwt-access-token-claim-map	The jwt claims configuration
oauth2-partial-match-scope-validation	Is partial match for scope validation activated
oauth2-provider	Which provider type to use: jcache[-code], jpa[-code], encrypted[-code]
oauth2-redirection-match-redirect-uri-with -application-uri	For authorization code flow, should redirect uri be matched with application one
oauth2-redirection-max-default-session -interval	For authorization code flow, how long a session can be
oauth2-redirection-scopes-requiring-no -consent	For authorization code flow, the scopes using no consent
oauth2-redirection-use-registered-redirect-uri -if-possible	For authorization code flow, should the registered uri be used
oauth2-refresh-token	Is issuing of access token issuing a refreh token too
oauth2-refresh-token-lifetime	How long a refresh token is valid, default to eternity (0)
oauth2-refresh-token-recycling	Should refresh token be recycled
oauth2-required-scopes	Comma separated list of required scopes
oauth2-support-pre-authorized-tokens	Are pre-authorized token supported
oauth2-support-public-client	Are public clients supported
oauth2-token-support	Are token flows supported
oauth2-use-all-client-scopes	Are all client scopes used for refresh tokens
oauth2-use-jaas	Should jaas be used - alternative (default) is to delegate to meecrowave/tomcat realms
oauth2-use-jwt-format-for-access-token	Should access token be jwt?
oauth2-write-custom-errors	Should custom errors be written
oauth2-write-optional-parameters	Should optional parameters be written

These options are available through the CLI or through properties as usually with Meecrowave configuration.

Note that meecrowave also provides a bundle which is an executable jar to run an OAuth2 server.

Here is a sample usage of that bundle:

```
java -jar meecrowave-oauth2-0.3.1-bundle.jar --users test=test --roles test=test
```

Then just test your token endpoint:

```
curl -XPOST http://localhost:8080/oauth2/token -d username=test -d password=test -d
grant_type=password
```

And you should get something like:

```
{
   "access_token":"5e2f211d4b4ccaa36a11d0876597f01e",
   "token_type":"Bearer",
   "expires_in":3600,
   "scope":"refreshToken",
   "refresh_token":"7ae5dc2e25925e5514b7e2e632cfa6a"
}
```

these example use inline users but you should configure a realm for a real usage.



this module is interesting if you plan to base your application development on Meecrowave because it shows how to use CLI configuration and wire it in your application but also how to use a 3rd party library (CXF there) and build a fatjar.

Authorization code case

Authorization code flow is a bit more complicated but services (endpoints) can be activated (see configuration - --oauth2-authorization-code-support).

You will need to configure CXF to point to the keystore/key to crypt/sign the token in session. It is properties based. All CXF properties (rs.security.) are supported but prefixed with oauth2.cxf. to avoid to mix it with another configuration starting with rs..

For instance you can use:

```
oauth2.cxf.rs.security.keystore.type = jks
oauth2.cxf.rs.security.keystore.file = /opt/keystores/oauth2.jks
oauth2.cxf.rs.security.keystore.password = password
oauth2.cxf.rs.security.keystore.alias = alice
oauth2.cxf.rs.security.key.password = pwd
```