

0.3

MetaAccess

JAVA Example Application

OPSWAT.

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1 JAVA EXAMPLE APPLICATION

1.1 Requirements

You will need Maven and JDK installed. You will also need to have OPSWAT Account to obtain access to our MetaAccess APIs.

- JDK (version 6 and higher)
- Maven
- Tomcat server
- OPSWAT Account ([register here](#))
- Knowledge of [OAuth 2.0](#)

1.2 Register your sample application

Before you will be able to run OPSWAT MetaAccess sample application you have to register new application on [OPSWAT MetaAccess APIs](#).

To register your application follow this process:

1. Go to [OPSWAT MetaAccess APIs](#)
2. Click on **Log in** button in top-right corner (you will be redirected to <https://go.opswat.com/idp/login>)
3. Fill in your email and password and click on **Sign in** -> you will be redirected back to MetaAccess APIs
4. Click on button REGISTER NEW APPLICATION
5. Fill in form
6. **Application name** – name of your sample application. For example: *Java Sample Application*
7. **Description** – Description of your application. For example: *Simple testing application for MetaAccess API*
8. **Website URL** – Public website of your Application. For example: <http://www.yourhost.com> (or <http://localhost:8080/sample-app>)
9. **Callback URL** – URL where should be user redirected from MetaAccess OAuth 2.0 after successfully authenticating. For example: <http://localhost:8080/sample-app/gettoken>
10. Click on Save

Register new application

Description

Please enter information below to register a new application

Application Name

Description

Application icon (Allowed format: png, jpg - Max file size: 1MB)

Website URL

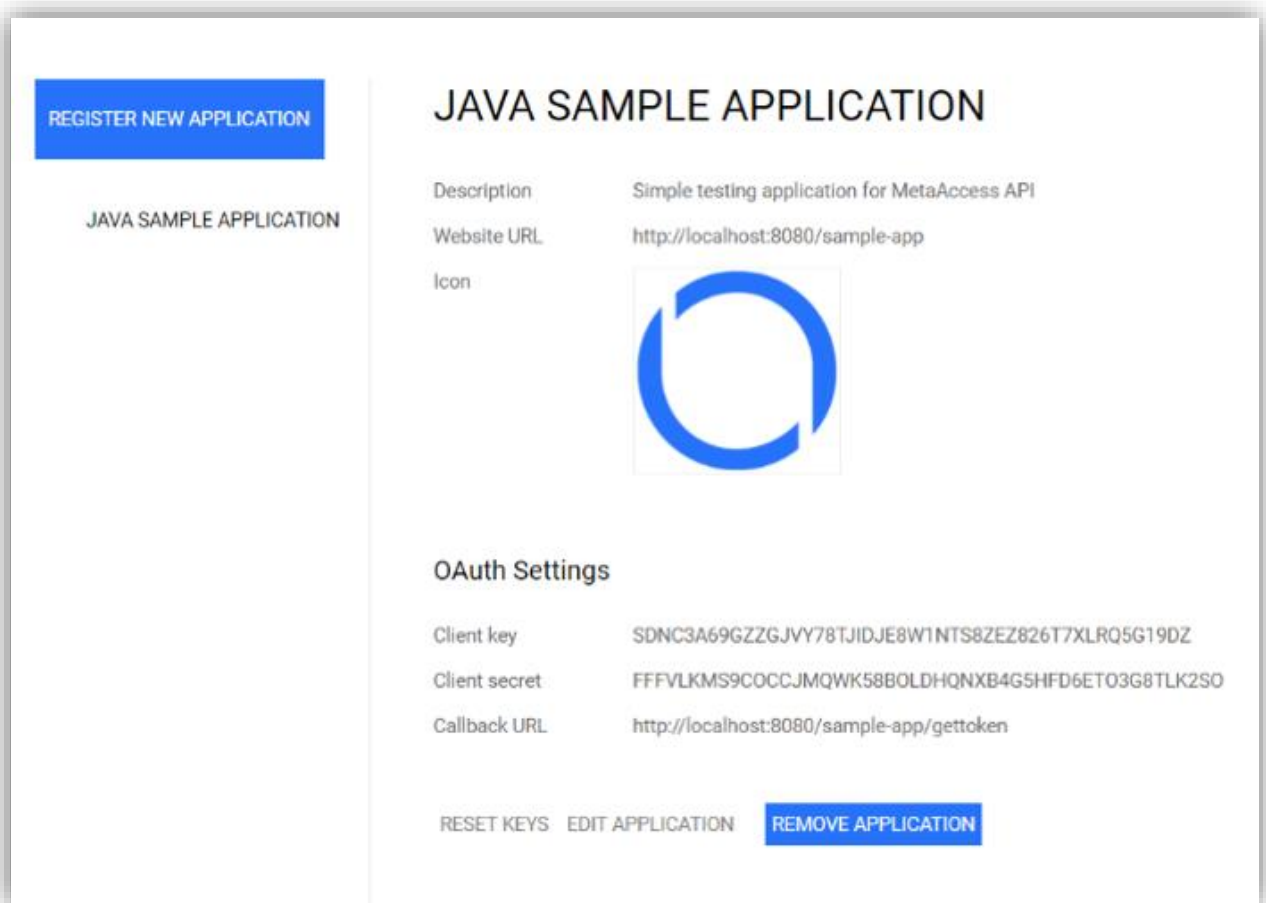
Callback URL

SAVE

Example of registration form

Note: The most important part of this registration form is **Callback URL**. On this URL is user redirected together with secret code in URL parameter, which is generated by OAuth 2.0. In this sample application, this process is implemented by [gettoken](#) method in [HomeController.java](#).

In this example we run our Tomcat server on localhost and URL callback is <http://localhost:8080/sample-app/gettoken>



Example of application overview

1.3 Install - Modify add your keys

Before you run the application, you need to insert your Client Key, Secret Key, and callback URL generated by OPSWAT MetaAccess APIs for your application into file ***src/main/resources/params.properties***.

```
clientId=yourId  
clientSecret=yourSecret  
callbackUrl=yourUrl
```

To obtain your Client key and Client secret, go to: MetaAccess APIs -> Applications and click on application name in left menu

1.4 Build

Before you run the application, go to your terminal and build the application by using command:

```
$ cd sample-app  
$ mvn clean package
```

You will see target/sample-app.war is built.

1.5 Run application

Firstly, go and copy *sample-app.war* file into the ***webapps*** directory of Tomcat server. Then start Tomcat, from your terminal by command:

```
$ cd apache-tomcat/bin  
$ ./startup.sh
```

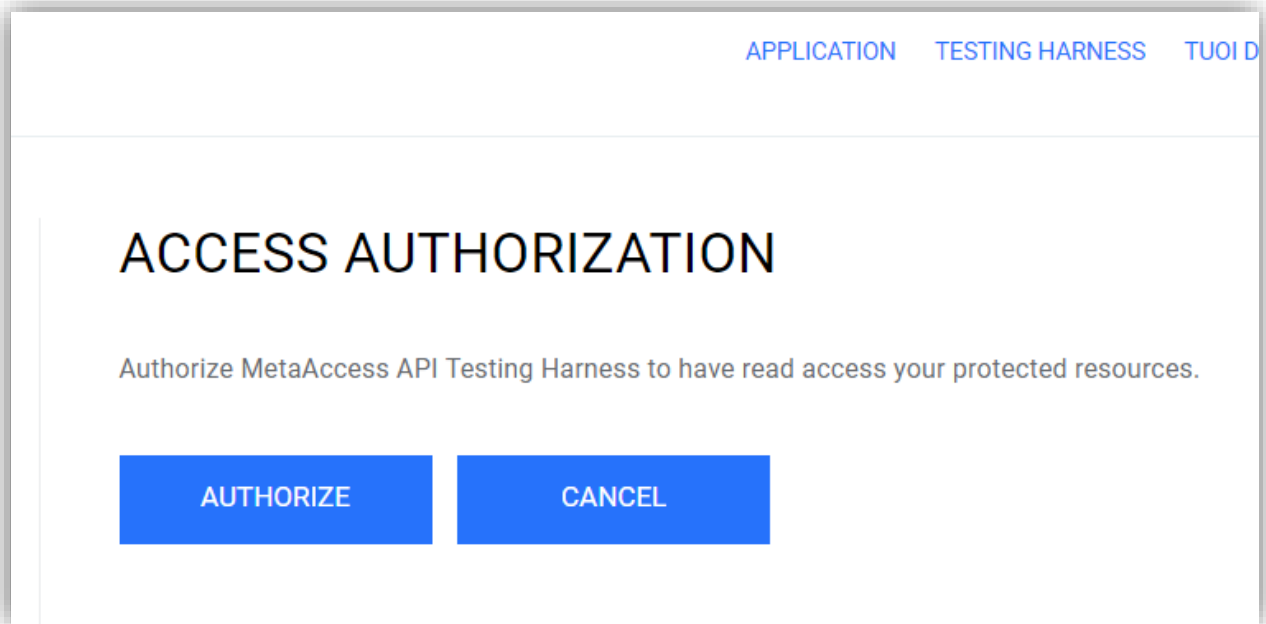
Now go to your browser and visit URL **localhost:8080/sample-app** and you should see following welcome message.



After clicking on **Login with MetaAccess Account** button, you will be redirected to gears.opswat.com landing page and follow this process:

Continue by clicking on **Log in** button in top section and you will be again redirected to accounts.opswat.com.

Insert your log in credentials and click Sign in -> you will be redirected on Confirmation page. Here you will be asked to accept access of your java Sample Application to your protected resources. As show on following screenshot.



Here click on **AUTHORIZE** – because you want your Sample application grant access to your resources (otherwise, you won't be able to load data in your application) and click **Submit**.

If you successfully finished whole process, you will see your MetaAccess account information in yours locally running sample application.



UI of MetaAccess Sample Java Application