

0.3

MetaAccess

RUBY Example Application

OPSWAT.

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1 RUBY EXAMPLE APPLICATION

1.1 Requirements

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

- Ruby(ruby version 2.0 and higher)
- OPSWAT Account([register here](#))
- Knowledge of [OAuth 2.0](#)

To register your application, visit OPSWAT MetaAccess APIs, login and click on button: REGISTER NEW APP in left section of the page. Follow the process and in the end you will obtain pair of keys, which you will need later.

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 <https://gears.opswat.com/o/app/register>
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: *Ruby Sample Application*
7. **Description** – Description of your application. For example: *Simple testing application for MetaAccess APIs*
8. **Website URL** – Public website of your Application. For example: <http://www.yourhost.com> (or <http://localhost:4567/>)
9. **Callback URL** – URL where should be user redirected from MetaAccess OAuth 2.0 after successfully authenticating.
For example: <http://localhost:4567/oauth2callback>
10. Click on Save
11. You will see overview page of newly registered application with specific Client key and Client secret

Description

Please enter information below to register a new application

Application Name

Description

Simple testing application for MetaAccess API

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

Website URL

Callback URL


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 `oauth2callback` method in `app.rb`.

In this example we run our Tomcat server on localhost and URL callback is <http://localhost:4567/oauth2callback>

RUBY SAMPLE APPLICATION

Description	Simple testing application for MetaAccess APIs
Website URL	http://localhost:4567/
Icon	

OAuth Settings

Client key	54JVFIJXUOSQ8U4TT657G1XZ5VJQV7XODGPV12MRA16XBBDA
Client secret	2E47Q7MKEIKJQ9DGAE2DY5TQS6TLC7CWU88GEK3EOP2SPG4
Callback URL	http://localhost:4567/oauth2callback

[RESET KEYS](#) [EDIT APPLICATION](#) [REMOVE APPLICATION](#)

Example of application overview

1.3 Gem File

```
source :rubygems gem 'sinatra'  
gem 'json'  
gem 'oauth2'  
gem "certified", "~> 0.1.1"
```

1.4 Application Structure

The application has standard Sinatra application structure. Main app runs from app.rb.

```
|— app.rb  
|— config.ru  
|— Gemfile  
|— Gemfile.lock  
|— public  
|   |— images  
|   |— main.css  
|   └— scripts.js  
|— views  
|   |— accounts.erb  
|   |— check.erb  
|   |— configuration.erb  
|   |— device.erb  
|   |— devices.erb  
|   |— error.erb  
|   |— index.erb  
|   |— layout.erb  
|   |— logs.erb  
|   └— success.erb
```

1. To see how you can handle OAuth 2 authentication with Sinatra app, see code in file app.rb
2. To see how you can handle MetaAccess API in Sinatra app, see code in file app.rb

1.5 Install – Modify add your keys

Before you run the application, you need to insert your Client Key and Secret Key generated by MetaAccess OPSWAT APIs for your application into file **app.rb**. Visit detail page of your application on APIs and copy and paste both Client and Secret to app.rb

```
ENV['client'] = 'INSERT YOUR CLIENT KEY HERE'  
ENV['secret'] = 'INSERT YOUR LIENT SECRET HERE'  
ENV['api_server'] = 'https://gears.opswat.com'
```

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

1.6 Bundle

Before you run the application, go to your terminal and install all dependencies by using command:

```
$ cd metaaccess  
$ bundle install
```

1.7 Run application

Run your application, from your terminal by command:

```
$ ruby app.rb
```

You should see similar response:

```
[2017-11-30 16:59:09] INFO WEBrick 1.3.1  
[2017-11-30 16:59:09] INFO ruby 2.3.4 (2017-03-30) [x86_64-linux]== Sinatra/1.4.4  
has taken the stage on 4567 for development with backup from WEBrick  
[2017-11-30 16:59:09] INFO WEBrick::HTTPServer#start: pid=26727 port=4567
```


Now go to your browser and visit URL **localhost:4567/** and you should see following welcome message.

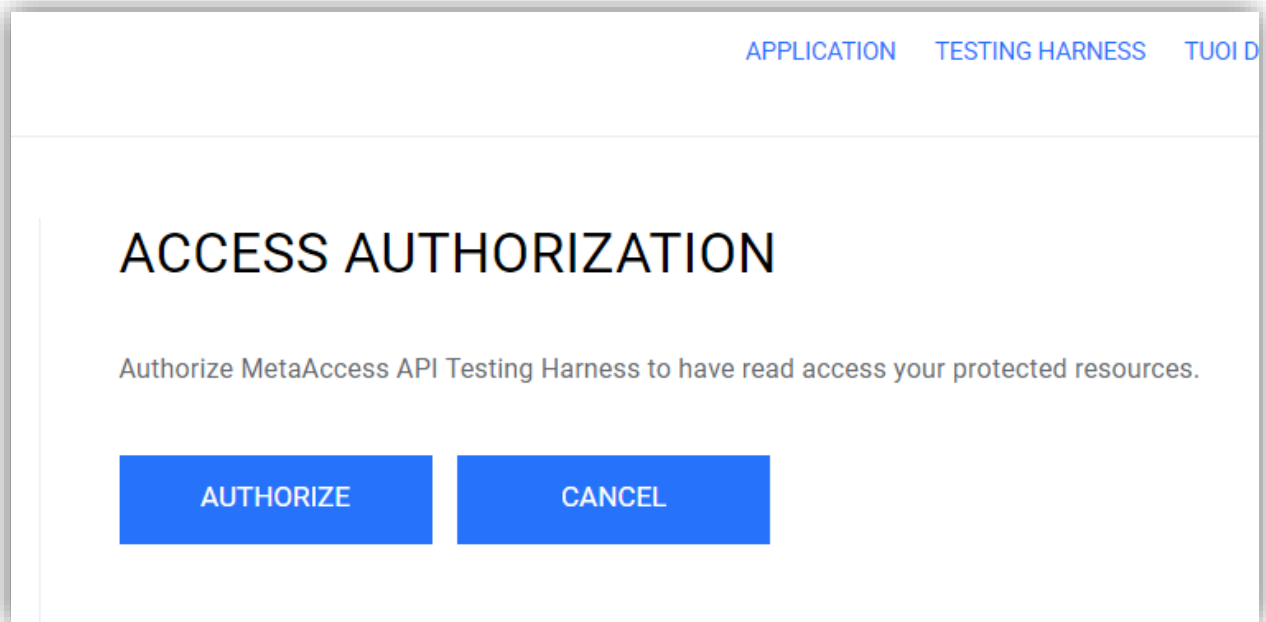


After clicking on **Login with MetaAccess Account** button, you will be redirected to gears.opswat.com landing page and follow this process:

Continue by clicking on **Log in** button in top section and you will be again redirected to <https://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 Ruby/Sinatra Application