

---

# **ECPHP - API Gateway Authentication Bundle documentation**

*Release 1.0.0*

**Apr 25, 2023**



# CONTENTS

<b>1</b>	<b>Requirements</b>	<b>3</b>
1.1	PHP . . . . .	3
1.2	Symfony . . . . .	3
1.3	Extensions . . . . .	3
<b>2</b>	<b>Installation</b>	<b>5</b>
2.1	Step 1 . . . . .	5
2.2	Step 2 . . . . .	5
2.3	Step 3 . . . . .	5
<b>3</b>	<b>Configuration</b>	<b>7</b>
<b>4</b>	<b>Usage</b>	<b>9</b>
4.1	Step 1 . . . . .	9
4.2	Step 2 . . . . .	9
4.3	Step 3 . . . . .	9
4.4	Step 4 . . . . .	9
4.5	Step 5 . . . . .	9
<b>5</b>	<b>Tests, code quality and code style</b>	<b>13</b>
5.1	Local development . . . . .	13
5.2	Workflow . . . . .	13
<b>6</b>	<b>Contributing</b>	<b>15</b>
<b>7</b>	<b>Development</b>	<b>17</b>
7.1	Maintainers . . . . .	17
7.2	Documentation . . . . .	17
7.3	Contributors . . . . .	17



This Symfony bundle provides the necessary to authenticate a request having a specific Authorization HTTP header with a pop token.

Supported tokens are:

- Opaque PoP access tokens issued by EU Login OpenID Connect (pop [JWS signed AT...])



## **REQUIREMENTS**

### **1.1 PHP**

PHP greater or equal to 7.4.

### **1.2 Symfony**

The minimal required version of Symfony is 5.

### **1.3 Extensions**

These PHP extensions are required:

- openssl
- gmp
- sodium





## INSTALLATION

This package has a [Symfony Flex recipe](#) that will install configuration files for you.  
Default configuration files will be copied in the *dev* environment.

### 2.1 Step 1

The recommended way to install it is with [Composer](#) :

```
composer require ecphp/eu-login-api-authentication-bundle
```

This package has a [Symfony recipe](#) that will provides the minimum configuration files.

**Warning:** Be careful, the recipe will enable some routes in your dev environment only. Those routes might be considered as a security issue if they are enabled in the *production* environment. Those routes are `/api/token` and `/api/user`. Find the documentation related to those routes inside the classes themselves. To disable them completely, just delete the file `packages/config/routes/dev/eu_login_api_authentication.yaml`.

### 2.2 Step 2

Edit the bundle configuration by editing the file `config/packages/dev/eu_login_api_authentication.yaml`.

```
eu_login_api_authentication:
    client_id: foo
    client_secret: bar
    environment: acceptance # Available values are: acceptance, production
```

### 2.3 Step 3

This is the crucial part of your application's security configuration.

Edit the security settings of your application by edition the file `config/packages/security.yaml`.

```
security:
    enable_authenticator_manager: true
    firewalls:
```

(continues on next page)

(continued from previous page)

```
dev:
  pattern: ^/(_(profiler|wdt)|css|images|js)/
  security: false
main:
  custom_authenticators:
    - 'eu_login_api_authentication.authenticator'

access_control:
  - { path: ^/user, role: IS_AUTHENTICATED_FULLY }
```

Feel free to change these configuration to fits your need. Have a look at [the Symfony documentation](#) about security and authentication.

## CONFIGURATION

Hereunder an example of configuration for this bundle.

```
eu_login_api_authentication:  
    client_id: foo  
    client_secret: bar  
    environment: acceptance
```

This bundle uses [EU Login](#) to authenticate the incoming requests.

In order to authenticate, you need to be able to create valid tokens through your frontend application.

Sometimes, the frontend application is not ready and you still need to be able to authenticate.

Basically, you need to generate and authenticate tokens without relying on [EU Login](#).

In order to do that, follow the following steps:

1. Edit the content of your application `services.yaml` and add:

```
when@dev:  
    services:  
        EcPhp\EuLoginApiAuthenticationBundle\Service\LocalEuLoginApiCredentials:  
            decorates: 'eu_login_api_authentication.service'  
            arguments: ['@.inner']
```

2. This will replace the [EU Login](#) authentication mechanism by another one which does not require any connection to [EU Login](#).

**Warning:** Be extremely careful to not enable that for production environment.

3. Read the [official Symfony documentation](#) if you want to enable this only for a particular `environment`.



## 4.1 Step 1

Follow the *Installation* procedure.

## 4.2 Step 2

Configure the configuration files accordingly and the security of your Symfony application.

## 4.3 Step 3

Get a valid token from your front-end application.

## 4.4 Step 4

- Make a request to `/api/user` with the `Authorization` header.

```
curl -X GET "http://127.0.0.1:8000/api/user" -H "Authorization: pop <insert-token-here>"
```

## 4.5 Step 5

Make sure that the development routes are enabled.

If they are not, create a new file `eu-login-api-authentication-bundle.yaml` in `config/packages/routes/dev/` with the following content:

```
eu_login_api_authentication_bundle:  
    resource: '@EuLoginApiAuthenticationBundle/Resources/config/routes/routes.php'  
    prefix: /api
```

The routes `/api/token` and `/api/user` will be available.

Generate a basic token:

```
GET http://127.0.0.1:8000/api/token
```

And the response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache, private
Content-Type: application/json
Date: Thu, 22 Apr 2021 13:31:44 GMT, Thu, 22 Apr 2021 13:31:44 GMT
Host: 127.0.0.1:8000
X-Debug-Token: 4ff71a
X-Debug-Token-Link: http://127.0.0.1:8000/_profiler/4ff71a
X-Powered-By: PHP/7.4.16
X-Robots-Tag: noindex
Content-Length: 288
Connection: close

{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
    eyJhdCI6ImV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSk1VekkxTmlKOS5leUp6ZFdJaU9pSjFjMlZ5WHpZd09ERTNZV013TudWb1
    nEPLVP34eSMge_qz9Jrw88_w6BQHzKKk6aeyj38F8rU"
}
```

Generate a basic token with custom fields:

```
POST http://127.0.0.1:8000/api/token
Content-Type: application/json

{ "key" : "value", "list": [1, 2, 3] }
```

and the response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache, private
Content-Type: application/json
Date: Thu, 22 Apr 2021 13:32:38 GMT, Thu, 22 Apr 2021 13:32:38 GMT
Host: 127.0.0.1:8000
X-Debug-Token: 80b1ca
X-Debug-Token-Link: http://127.0.0.1:8000/_profiler/80b1ca
X-Powered-By: PHP/7.4.16
X-Robots-Tag: noindex
Content-Length: 340
Connection: close

{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
    eyJhdCI6ImV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSk1VekkxTmlKOS5leUpyWlhraU9pSjJZV3gxWlNjc01teHBjM1FpT2xz
    eHJY2L-oS09IqVI_q0SGGzarE6l6ZXHQAb14F-1STwzQ"
}
```

Use /api/user to introspect a token:

```
GET http://127.0.0.1:8000/api/user
Authorization: pop eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
    eyJhdCI6ImV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSk1VekkxTmlKOS5leUp6ZFdJaU9pSjFjMlZ5WHpZd09ERTNPV1ppWVRVe
    8MotNjUqlVgzKnAY4CGDm63TdmGrBsPf3_Jvjy_q3qs
```

And the response:

```
GET http://127.0.0.1:8000/api/user
Authorization: pop eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
eyJhdCI6ImV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSk1VekxTmlKOS5leUpyWlhraU9pSjJlZ3gxWlNjc0lt
10mkjiaaHuO4EdHXAxt6P-Q__f4ztOGgBNPSCIjFdf0
```

```
HTTP/1.1 200 OK
Cache-Control: no-cache, private
Content-Type: application/json
Date: Thu, 22 Apr 2021 13:30:52 GMT, Thu, 22 Apr 2021 13:30:52 GMT
Host: 127.0.0.1:8000
X-Debug-Token: 47d353
X-Debug-Token-Link: http://127.0.0.1:8000/_profiler/47d353
X-Powered-By: PHP/7.4.16
X-Robots-Tag: noindex
Content-Length: 71
Connection: close

{
  "key": "value",
  "list": [
    1,
    2,
    3
  ],
  "sub": "user_60817a5b312bd",
  "active": true
}
```





## TESTS, CODE QUALITY AND CODE STYLE

### 5.1 Local development

Follow the procedure described in the [Configuration](#) page to setup a local development environment.

### 5.2 Workflow

Every time changes are introduced into the library, [Github Actions](#) run the tests written with [Behat](#).

The code style is based on [PSR-12](#) plus a set of custom rules. Find more about the code style in use in the package [drupal/php-conventions](#).

A PHP quality tool, [Grumphp](#), is used to orchestrate all these tasks at each commit on the local machine, but also on the continuous integration tools.

To run the whole tests tasks locally, do

```
./vendor/bin/grumphp run
```

Here's an example of output that shows all the tasks that are setup in Grumphp and that will check your project.

```
./vendor/bin/grumphp run
GrumPHP is sniffing your code!
Running task 1/13: License... ✓
Running task 2/13: composer_require_checker... ✓
Running task 3/13: composer... ✓
Running task 4/13: ComposerNormalize... ✓
Running task 5/13: YamlLint... ✓
Running task 6/13: JsonLint... ✓
Running task 7/13: PhpLint... ✓
Running task 8/13: TwigCs... ✓
Running task 9/13: PhpCsFixer... ✓
Running task 10/13: Phpcs... ✓
Running task 11/13: PhpStan... ✓
Running task 12/13: Psalm... ✓
Running task 13/13: Behat... ✓
```



## CONTRIBUTING

See the file [CONTRIBUTING.md](#) but feel free to contribute to this project by sending Github pull requests.



## DEVELOPMENT

### 7.1 Maintainers

See the [MAINTAINERS.txt](#) file.

### 7.2 Documentation

Documentation can be built locally using [Sphinx](#).

To render the documentation locally do the following steps:

- `docker-compose up`
- Navigate to <http://127.0.0.1:8100/>

### 7.3 Contributors

See the [Github insights](#) page.