



Welcome to
Symfony 4.4.13

Symfony Installation

<https://symfony.com/doc/4.4/setup.html#technical-requirements>

This tutorial will guide you to setup the framework "Symfony v4.4" in the DAW2¹ server. (Substitute 'a999999' with your student number)

Step 1: Download the framework

Login to the DAW2 server (IP 10.10.23.184) on the DEEI network using PuTTY and change to the public_html folder

```
a999999@daw2:~$ cd public_html
a999999@daw2:~/public_html/$
composer create symfony/website-skeleton:"^4.4" LAB
```

This command will create a directory named LAB² containing a fresh Symfony installation with all of Symfony's dependencies already installed

Step 2: Create the Main controller

```
a999999@daw:~/public_html$ cd LAB
a999999@daw:~/public_html/LAB$ rm -f composer.lock
a999999@daw:~/public_html/LAB$
composer require doctrine/orm:2.7 doctrine/doctrine-bundle:2.1
a999999@daw:~/public_html/LAB$ rm -rf var/cache
a999999@daw:~/public_html/LAB$ php bin/console make:controller
Choose a name for your controller class (e.g. GrumpyChefController):
➤ Main
```

Step 3: Open your browser

Now open your browser and type the following address text box.

<http://daw.deei.fct.ualg.pt/~a999999/public/index.php/main>

¹ The symfony framework can ONLY be setup at the daw2 server (IP 10.10.23.184).

² For labs 8, 9 and 10 the "LAB" name is "LAB8_10", and for lab 11 the "LAB" name is "LAB11"

Hello MainController!

This friendly message is coming from:

- Your controller at [src/Controller/MainController.php](#)
- Your template at [templates/main/index.html.twig](#)

If you see the web page above you have successfully installed Symfony!

Step 4: Setup the database

The database configuration for your application is located at the hidden file `.env`.

```
a999999@daw:~/public_html/LAB$ nano .env
```

```
DATABASE_URL=mysql://a999999:password@127.0.0.1:3306/db_a999999?serverVersion=15.1
```

Step 5: (Optional) Configure the email server

```
a999999@daw:~/public_html/LAB$ nano .env
```

Uncomment the `MAILER_DSN` setting:

```
###> symfony/mailer ###
MAILER_DSN=smtp://localhost:25
###< symfony/mailer ###
```

Step 6: (Optional) URL rewriting 1

To avoid typing "index.php" in the URL, change the Rewrite base in file `.htaccess` in the "public" directory

```
a999999@daw:~/public_html/LAB/public$ nano .htaccess
```

```
<IfModule mod_rewrite.c>
  <IfModule mod_negotiation.c>
    Options -MultiViews
  </IfModule>

  RewriteEngine On

  # Redirect Trailing Slashes If Not A Folder...
  RewriteCond %{REQUEST_FILENAME} !-d
  RewriteRule ^(.*)/$ /$1 [L,R=301]

  # Handle Front Controller...
  RewriteCond %{REQUEST_FILENAME} !-d
  RewriteCond %{REQUEST_FILENAME} !-f
  RewriteRule ^ index.php [L]

  # Handle Authorization Header
  RewriteCond %{HTTP:Authorization} .
  RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization}]
</IfModule>
```

Step 7: (Optional) URL rewriting 2

To avoid typing "index.php" AND "public" in the URL, change the Rewrite base in file .htaccess in the "LAB" directory

```
a999999@daw:~/public_html/LAB$ nano .htaccess
```

```
<IfModule mod_rewrite.c>
  <IfModule mod_negotiation.c>
    Options -MultiViews
  </IfModule>

  RewriteEngine On

  # Redirect Trailing Slashes If Not A Folder...
  RewriteCond %{REQUEST_FILENAME} !-d
  RewriteRule ^(.*)/$ /$1 [L,R=301]

  # Handle Front Controller...
  RewriteCond %{REQUEST_FILENAME} !-d
  RewriteCond %{REQUEST_FILENAME} !-f
  RewriteRule ^ index.php [L]

  # Handle Authorization Header
  RewriteCond %{HTTP:Authorization} .
  RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization}]
</IfModule>
```

and create the "index.php" file

```
a999999@daw:~/public_html/LAB$ nano index.php
```

```
<?php
$uri = urldecode(
    parse_url($_SERVER['REQUEST_URI'], PHP_URL_PATH)
);

if ($uri !== '/' && file_exists(__DIR__.'/public'.$uri)) {
    return false;
}

require_once __DIR__.'/public/index.php';
```

Create symbolic links to the static resources existing in the "public" directory:

```
a999999@daw:~/public_html/LAB$ ln -s public/images images
a999999@daw:~/public_html/LAB$ ln -s public/css css
a999999@daw:~/public_html/LAB$ ln -s public/js js
```