

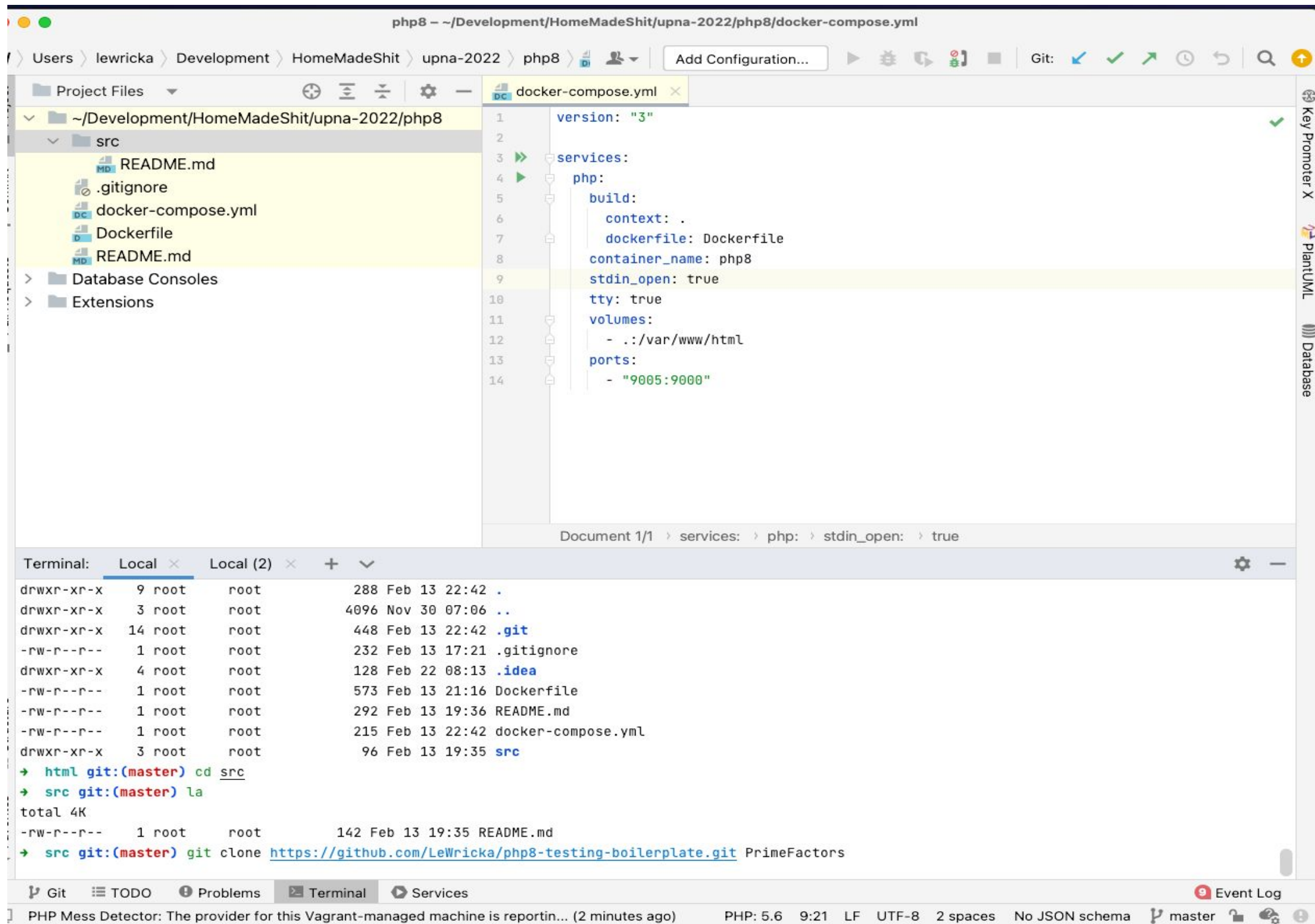
# Configuración PHPStorm con Docker y tests

# Cofiguración Git en Docker

- ▶ Creamos un nuevo repositorio en nuestra cuenta de GitHub con el nombre del proyecto a realizar
- ▶ Clonamos el repositorio de testing\_boilerplate dentro de nuestro src del proyecto de Docker
- ▶ Lo clonamos en la carpeta que con el nombre del proyecto que vamos a desarrollar
- ▶ ¡IMPORTANTE! clonad usando el método **SSH** no Https

# Preparación entorno

## Entorno



The screenshot shows an IDE window titled "php8 - ~/Development/HomeMadeShit/upna-2022/php8/docker-compose.yml". The left sidebar displays the project structure with a folder named "src" containing files like "README.md", ".gitignore", "docker-compose.yml", "Dockerfile", and another "README.md". The main editor area shows the content of "docker-compose.yml":

```
1 version: "3"
2
3 services:
4   php:
5     build:
6       context: .
7       dockerfile: Dockerfile
8     container_name: php8
9     stdin_open: true
10    tty: true
11    volumes:
12      - ../var/www/html
13    ports:
14      - "9005:9000"
```

The bottom panel contains a terminal window with the following output:

```
drwxr-xr-x  9 root  root    288 Feb 13 22:42 .
drwxr-xr-x  3 root  root   4096 Nov 30 07:06 ..
drwxr-xr-x 14 root  root    448 Feb 13 22:42 .git
-rw-r--r--  1 root  root    232 Feb 13 17:21 .gitignore
drwxr-xr-x  4 root  root    128 Feb 22 08:13 .idea
-rw-r--r--  1 root  root    573 Feb 13 21:16 Dockerfile
-rw-r--r--  1 root  root    292 Feb 13 19:36 README.md
-rw-r--r--  1 root  root    215 Feb 13 22:42 docker-compose.yml
drwxr-xr-x  3 root  root     96 Feb 13 19:35 src
→ html git:(master) cd src
→ src git:(master) la
total 4K
-rw-r--r--  1 root  root    142 Feb 13 19:35 README.md
→ src git:(master) git clone https://github.com/LeWricka/php8-testing-boilerplate.git PrimeFactors
```

The status bar at the bottom indicates "PHP Mess Detector: The provider for this Vagrant-managed machine is reportin... (2 minutes ago)", "PHP: 5.6", "9:21", "LF", "UTF-8", "2 spaces", "No JSON schema", and "master".

# Git - Problemas permisos

- Es posible que al intentar hacer pull nos diga que no tenemos permisos (de no ser así avanzad en la presentación)
- Tenemos que añadir nuestra clave ssh a nuestra cuenta de Github

# Git - Problemas permisos

The screenshot shows an IDE window with a project structure on the left and a terminal at the bottom. The project structure includes a folder named 'PrimeFactors' containing 'README.md', '.gitignore', 'docker-compose.yml', 'Dockerfile', and another 'README.md'. The main editor displays the 'docker-compose.yml' file with the following content:

```
1 version: "3"
2
3 services:
4   php:
5     build:
6       context: .
7       dockerfile: Dockerfile
8     container_name: php8
9     stdin_open: true
10    tty: true
11    volumes:
12      - ../var/www/html
13    ports:
14      - "9005:9000"
```

The terminal window shows the output of a 'git remote show origin' command, which results in a 'Permission denied' error. The error message is highlighted in blue:

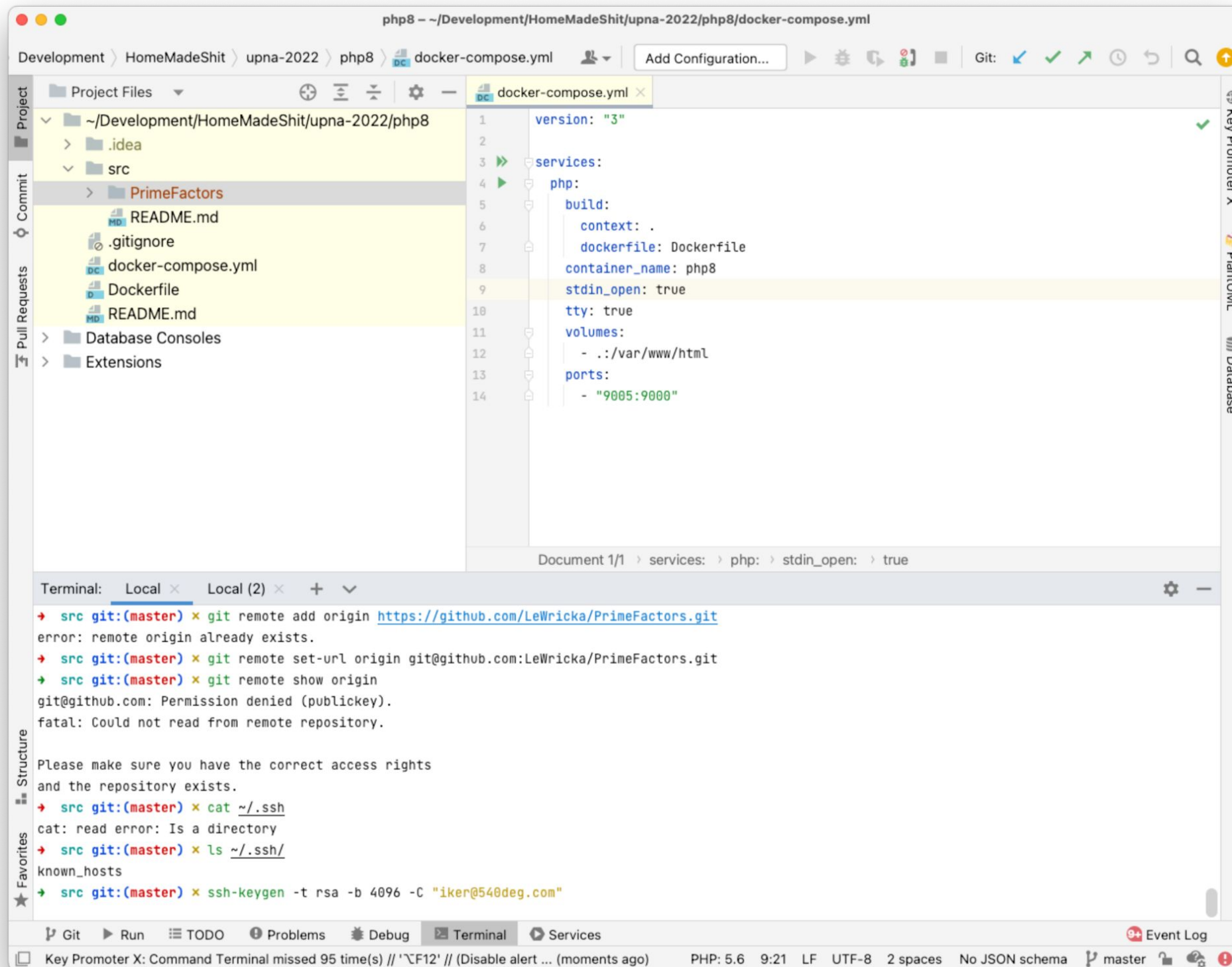
```
remote: Total 12 (delta 0), reused 12 (delta 0), pack-reused 0
Receiving objects: 100% (12/12), 498.29 KiB | 205.00 KiB/s, done.
+ src git:(master) * git remote show origin
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.
```

# Git - Problemas permisos

- Primero vamos a comprobar si tenemos alguna clave ssh -> ls ~/.ssh
- Si no aparece ningún fichero además del known\_hosts
- ssh-keygen -t rsa -b 4096 -C "[email@email.com](mailto:email@email.com)"
- Podemos dejar el resto de pasos por defecto



# Git - Problemas permisos



The screenshot shows an IDE window with a project structure on the left and a terminal at the bottom. The project structure includes a folder named 'PrimeFactors' with files like 'README.md', '.gitignore', 'docker-compose.yml', and 'Dockerfile'. The main editor displays the 'docker-compose.yml' file with the following content:

```
1 version: "3"
2
3 services:
4   php:
5     build:
6       context: .
7       dockerfile: Dockerfile
8     container_name: php8
9     stdin_open: true
10    tty: true
11    volumes:
12      - ../var/www/html
13    ports:
14      - "9005:9000"
```

The terminal shows the following commands and output:

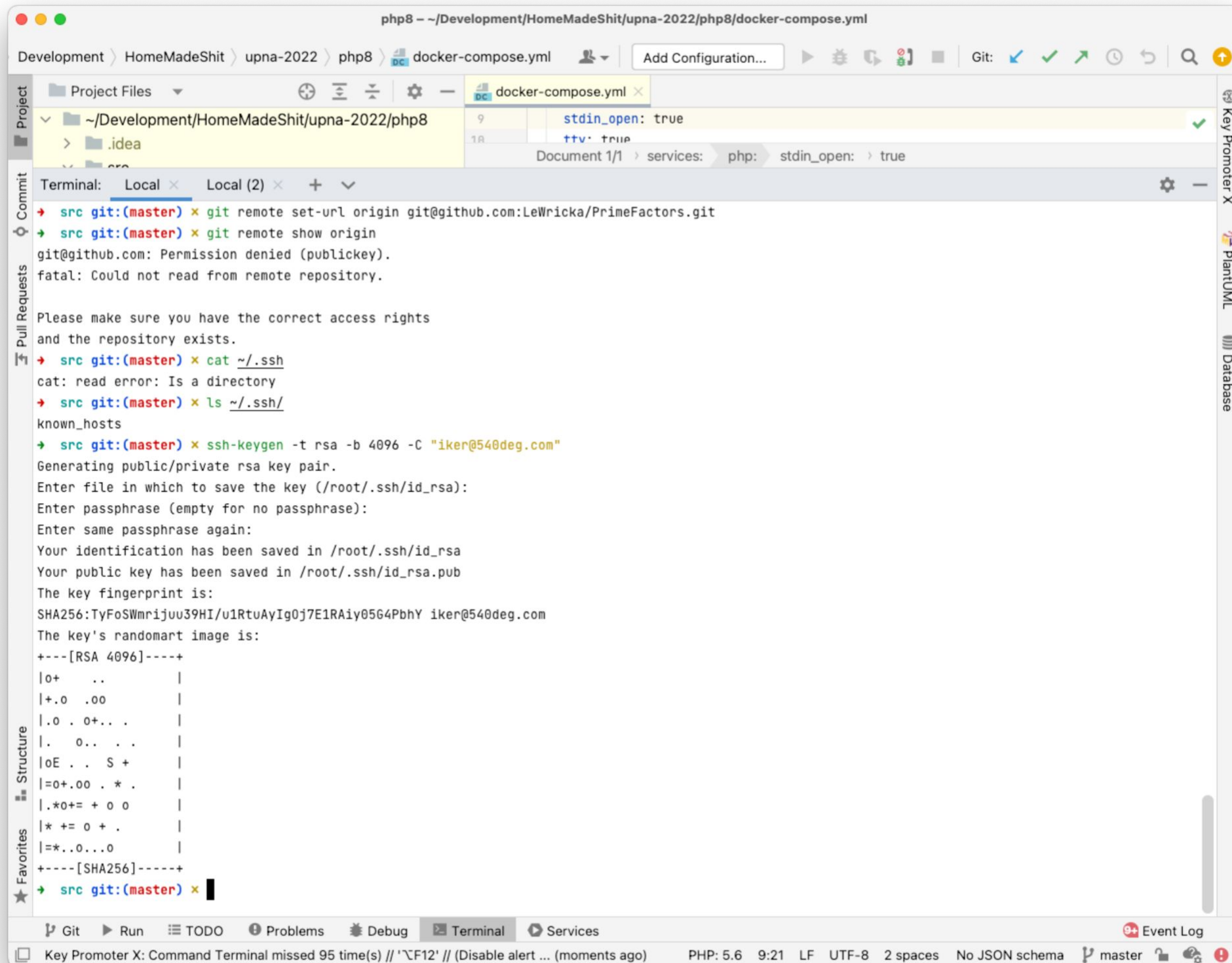
```
src git:(master) * git remote add origin https://github.com/LeWricka/PrimeFactors.git
error: remote origin already exists.
src git:(master) * git remote set-url origin git@github.com:LeWricka/PrimeFactors.git
src git:(master) * git remote show origin
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
src git:(master) * cat ~/.ssh
cat: read error: Is a directory
src git:(master) * ls ~/.ssh/
known_hosts
src git:(master) * ssh-keygen -t rsa -b 4096 -C "iker@540deg.com"
```

The terminal also shows a status bar at the bottom with the following information: Key Promoter X: Command Terminal missed 95 time(s) // '\CF12' // (Disable alert ... (moments ago) PHP: 5.6 9:21 LF UTF-8 2 spaces No JSON schema master



# Git - Problemas permisos



```
php8 -- ~/Development/HomeMadeShit/upna-2022/php8/docker-compose.yml

Development > HomeMadeShit > upna-2022 > php8 > docker-compose.yml
Add Configuration...

Project Files
~/Development/HomeMadeShit/upna-2022/php8
> .idea
> src

Terminal: Local x Local (2) x + v
+ src git:(master) x git remote set-url origin git@github.com:LeWricka/PrimeFactors.git
+ src git:(master) x git remote show origin
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
+ src git:(master) x cat ~/.ssh
cat: read error: Is a directory
+ src git:(master) x ls ~/.ssh/
known_hosts
+ src git:(master) x ssh-keygen -t rsa -b 4096 -C "iker@540deg.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:TyFoSWmrijuu39HI/v1RtuAyIg0j7E1RAiy05G4PbHY iker@540deg.com
The key's randomart image is:
+---[RSA 4096]-----+
|o+  ..          |
|+.0  .00        |
|.0  .0+.. .     |
|.  0..  . .     |
|oE  . . S +     |
|=0+.00 . * .    |
|. *0+= + 0 0    |
|* += 0 + .      |
|=*..0...0       |
+---[SHA256]-----+
+ src git:(master) x
```

# Git - Problemas permisos

- Hemos creado nuestra clave ssh
- Ahora si hacemos otra vez -> `ls ~/.ssh` podremos ver los ficheros generados
- Tenemos que copiar nuestra **clave pública**, es decir, el fichero que **acaba en .pub** -> `cat ~/.ssh/id_rsa.pub` en mi caso
- Y añadirla en nuestra cuenta de github yendo a settings -> SSH and GPG keys -> “new ssh key”
- Ó <https://github.com/settings/keys>
- A partir de aquí deberíamos ser capaces de interactuar con el repositorio sin usar contraseñas. Una forma de probarlo -> `git remote show origin`

# Git - Problemas permisos

The screenshot shows an IDE window titled "php8 - ~/Development/HomeMadeShit/upna-2022/php8/docker-compose.yml". The terminal window is active, showing the following commands and output:

```

cat: read error: Is a directory
src git:(master) x ls ~/.ssh/
known_hosts
src git:(master) x ssh-keygen -t rsa -b 4096 -C "iker@540deg.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:TyFoSWmrijuu39HI/u1RtUyIg0j7E1RAiy0564PbhY iker@540deg.com
The key's randomart image is:
+---[RSA 4096]-----+
|o+  ..          |
|+.0 .00         |
|.0 . 0+.. .     |
|. 0.. . .       |
|oE . . S +      |
|=0+.00 . * .    |
|.*0+= + 0 0     |
|* += 0 + .      |
|=*..0...0       |
+---[SHA256]-----+
src git:(master) x ls ~/.ssh/
id_rsa      id_rsa.pub  known_hosts
src git:(master) x cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQADwv8Va0YL4rLpH3mf+9BYGaNsP/LPC8T+CoHHPmQXZPBb75JEiHHeLvUyYDxjQzLQqpSRfaUYS1ar70RGej8MYV51rP476SvI9ZjVfX+QK6AdSL1
QCz7dk1guZRsurk9IejtdW3Xqr+CRXqdoGHGjPRAZzTanybLdNylCqQUFvFsC893d0Q7c6R5Q/8+ZQvdBn+muPnJ9lulTARVm/lf+DSHYqF25Y4G0WC0DX+IbCl1ZHxJ33oJcjdK8e4Qh0iYcku7
fQqfp4Mf2Uxp6DWjKC6mzWgI1cru1JL0jtnBLKQ8Y11S0Q+cN2vV3rvA6GVDIqlVo0LZeRJJZjzgjDEuG/Prm4Gta5fx/4+W07CjdT+wBDWfp3xRoqKR7x520k9b2qeJy2TI5PuqFAXYeF18s82Hx
WE0vMHZYeqLEJletViRvGu+A/GKIw2qGe5Q8b/T20f7vzEWBgWWlTMT0RIrntSFtRY88vY35WQcXR5EhhCgcSm3/AAahYHxKLvA09eMks/4IgZn9ZJLCxvimz0GRYNzs0Hypvf2Idc0QSF3HzWLak
nP9ndb2pX1N1FwqQJcDYAjitodt4d+ZbPV+XJliULIUlhaVvkkNAQzr7xoXvqi/qmoNvUu01l7sfoYSsW76DhgaLk7iEYgqAUDTZqaffuXU1NEbB0804Y+D09w== iker@540deg.com
src git:(master) x
  
```

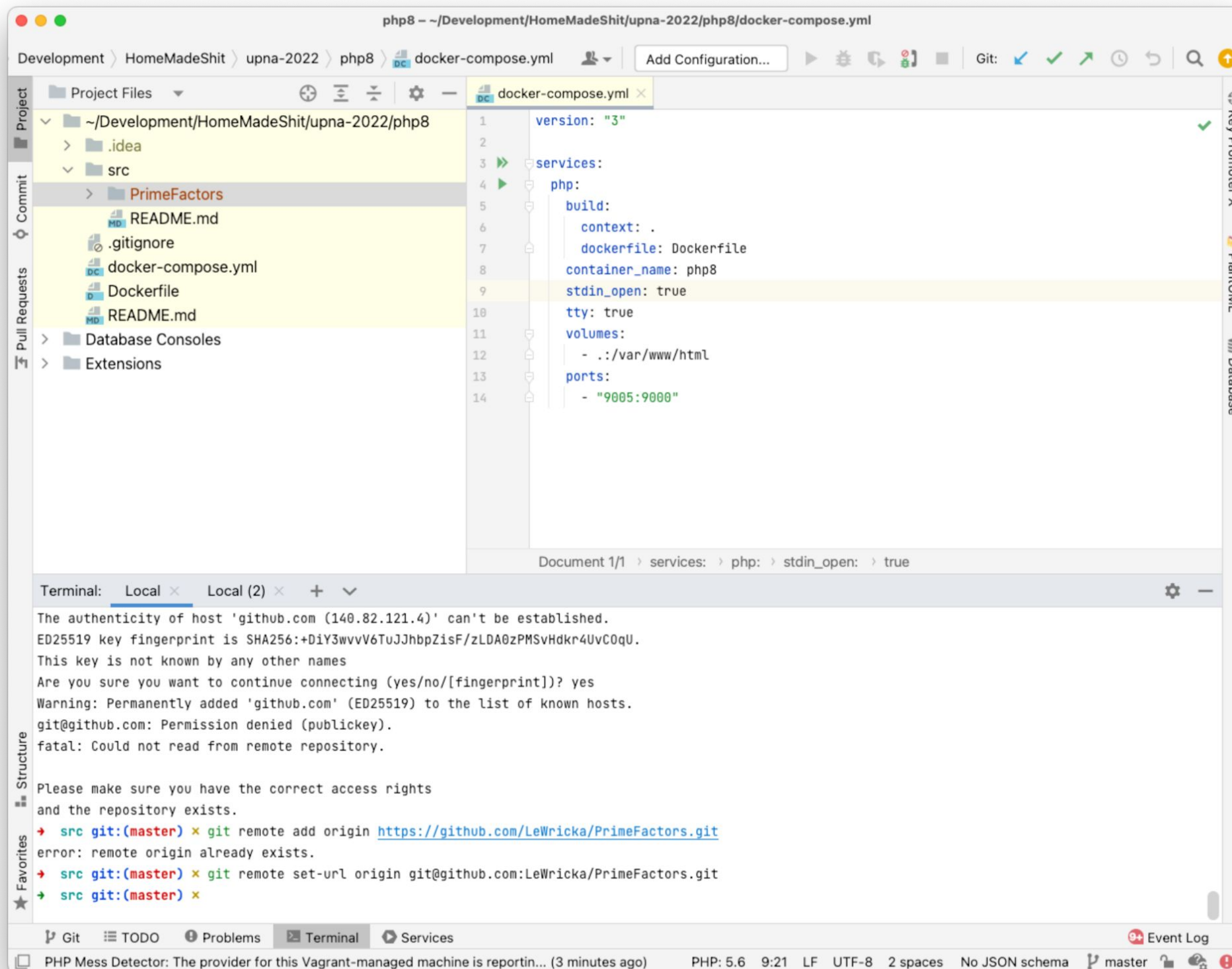
The IDE interface includes a sidebar with "Project Files", "Commit", "Pull Requests", "Structure", and "Favorites". The bottom status bar shows "Git", "Run", "TODO", "Problems", "Debug", "Terminal", "Services", and "Event Log".

# Git - cambio origin

- Si realizamos un `-> git show remote origin`
- Veremos que origin está seteado al repositorio que hemos clonado
- Tenemos cambiar origin a nuestro nuevo repositorio. En mi caso:  
`geti@github.com:LeWricka/StringCalculator.git`



# Git - cambio origin



# Git - cambio origin

```
HF7H0bZpX1W1FwQq001KJ1C0U140+20FV+X0C10C10LHavVRKRMQZ1/7X0XVq1/qm0WV0001C/ST0T3SW/00HgaLK/1E1gqX0U12Qd1T0X01NE0000041+D07W== 1Ker@540deg.com
```

```
→ src git:(master) × git remote show origin
```

```
* remote origin
```

```
Fetch URL: git@github.com:LeWricka/PrimeFactors.git
```

```
Push URL: git@github.com:LeWricka/PrimeFactors.git
```

```
HEAD branch: (unknown)
```

```
Remote branch:
```

```
refs/remotes/origin/master stale (use 'git remote prune' to remove)
```

```
Local branch configured for 'git pull':
```

```
master merges with remote master
```

```
→ src git:(master) ×
```

Structure

Favorites

- > Tests
  - ProductDetailServicePro
  - CatalogServiceProvider.php
  - ide-blade.json
- > Quotations
- > Search
- > Shared

Terminal: Local × Local (2) ×

delete mode 100644 webshop/Applicat

delete mode 100644 webshop/Domain/M

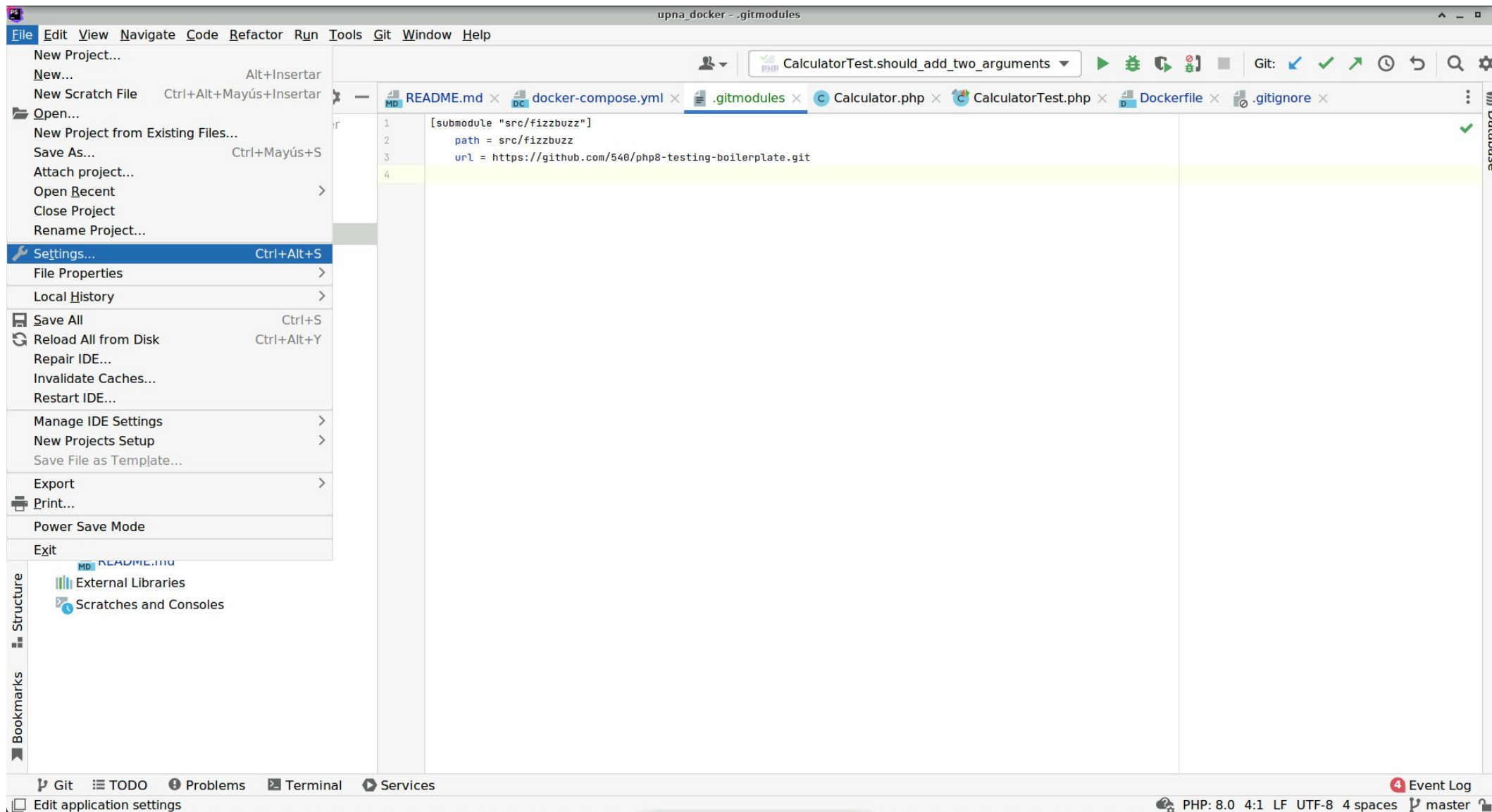
# PHPStorm - Configurar tests

- Para configurar los tests, tenemos que configurar:
  - La máquina de Docker a la que nos queremos conectar para usar su CLI interpreter
  - El CLI interpreter
  - El la versión de PHPunit mediante el autoloader de vendor de nuestro Docker
  - Abrimos el proyecto (solo el nuevo repo) en PHPStorm

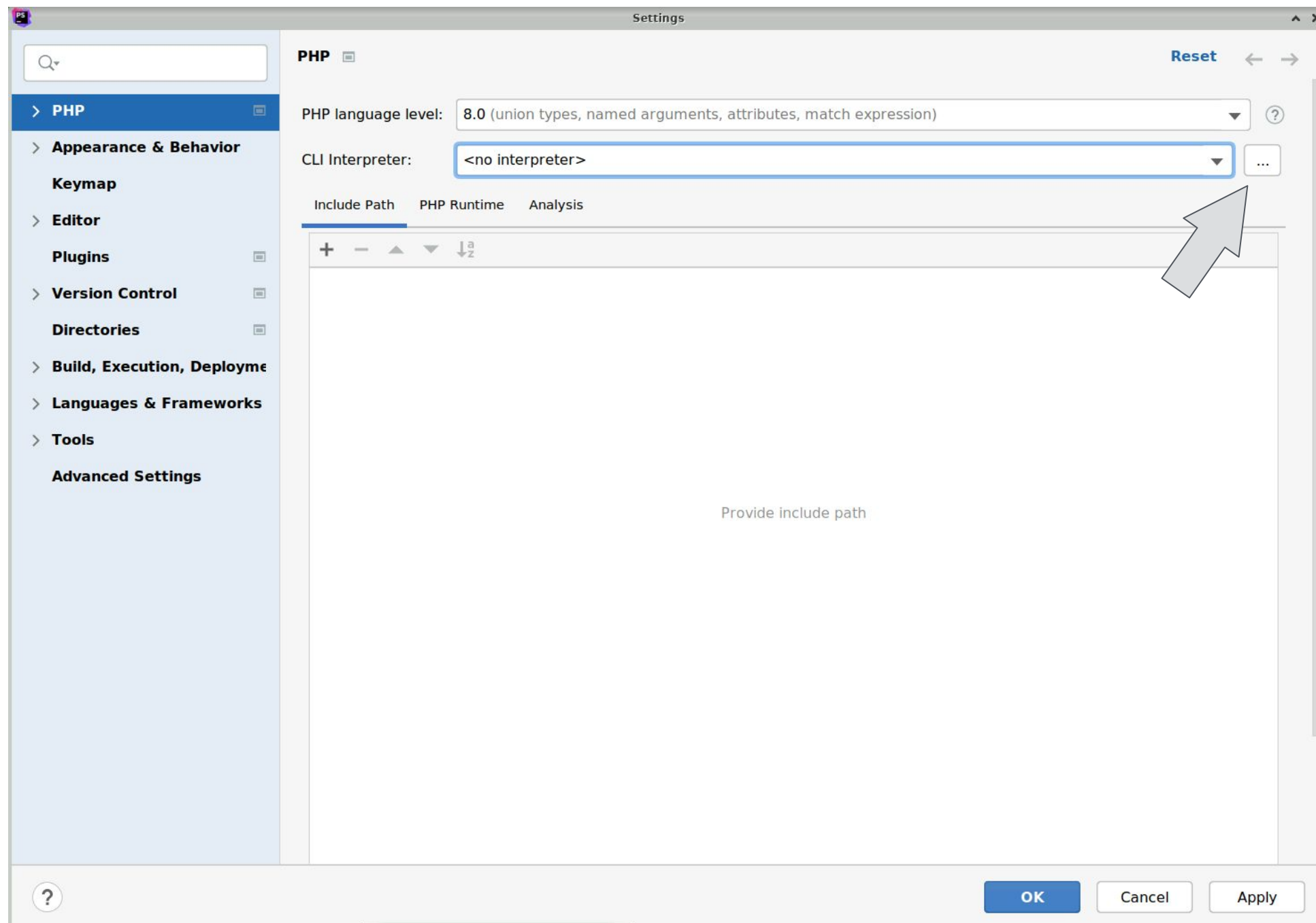


# Cofiguración tests con Docker y PHPStorm

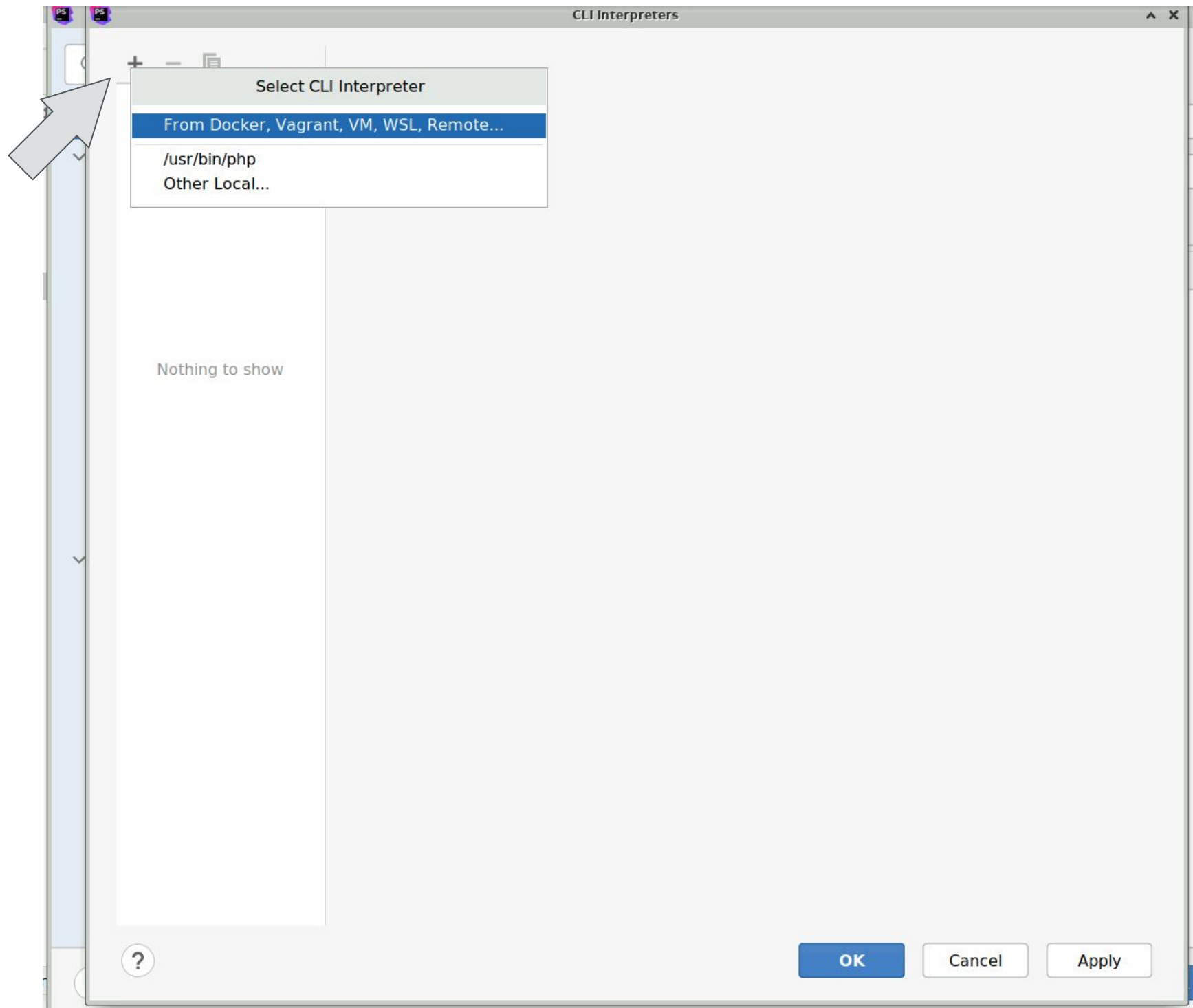
# PHPStorm - Configurar tests



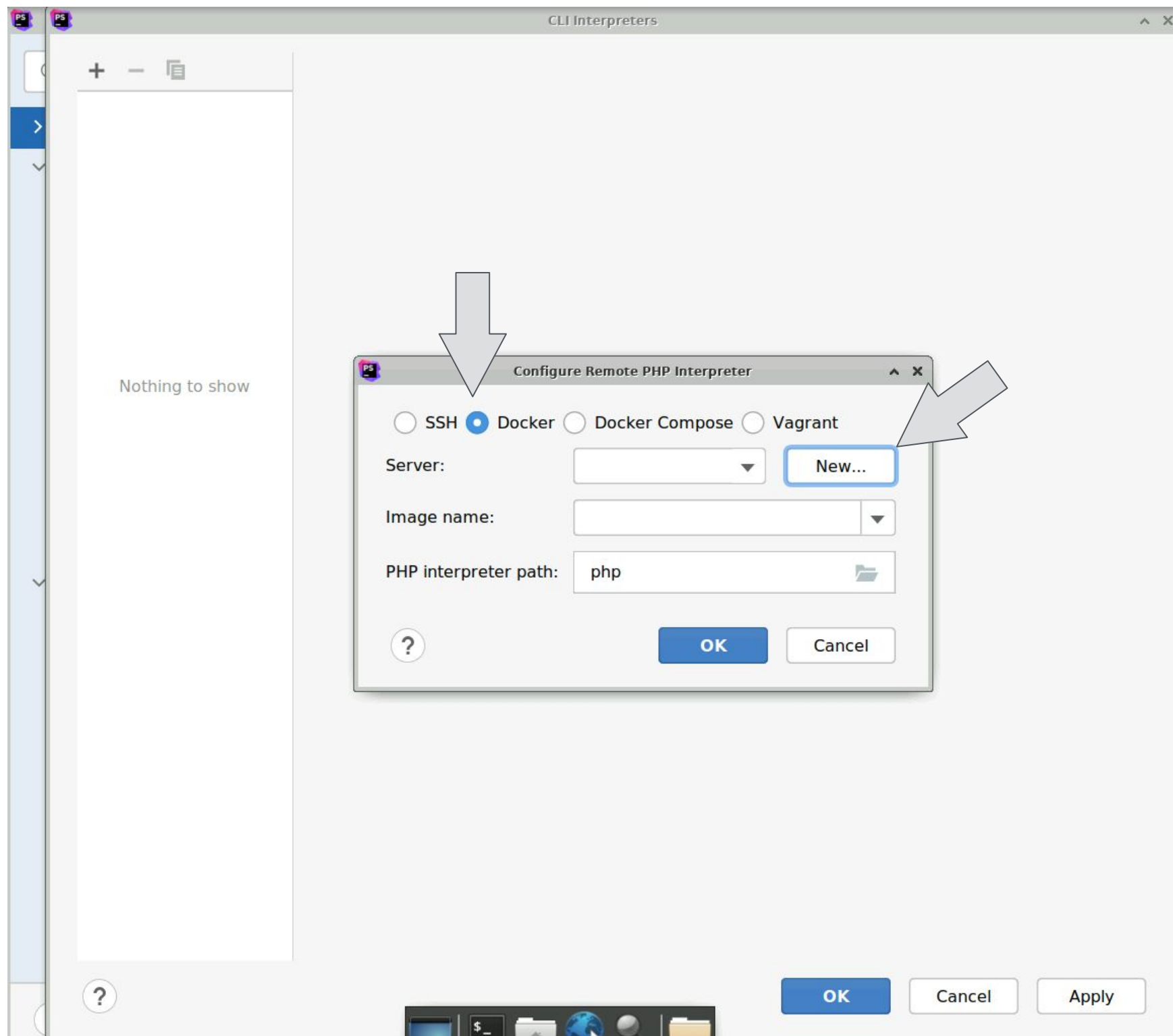
# PHPStorm - Configurar tests



# PHPStorm - Configurar tests



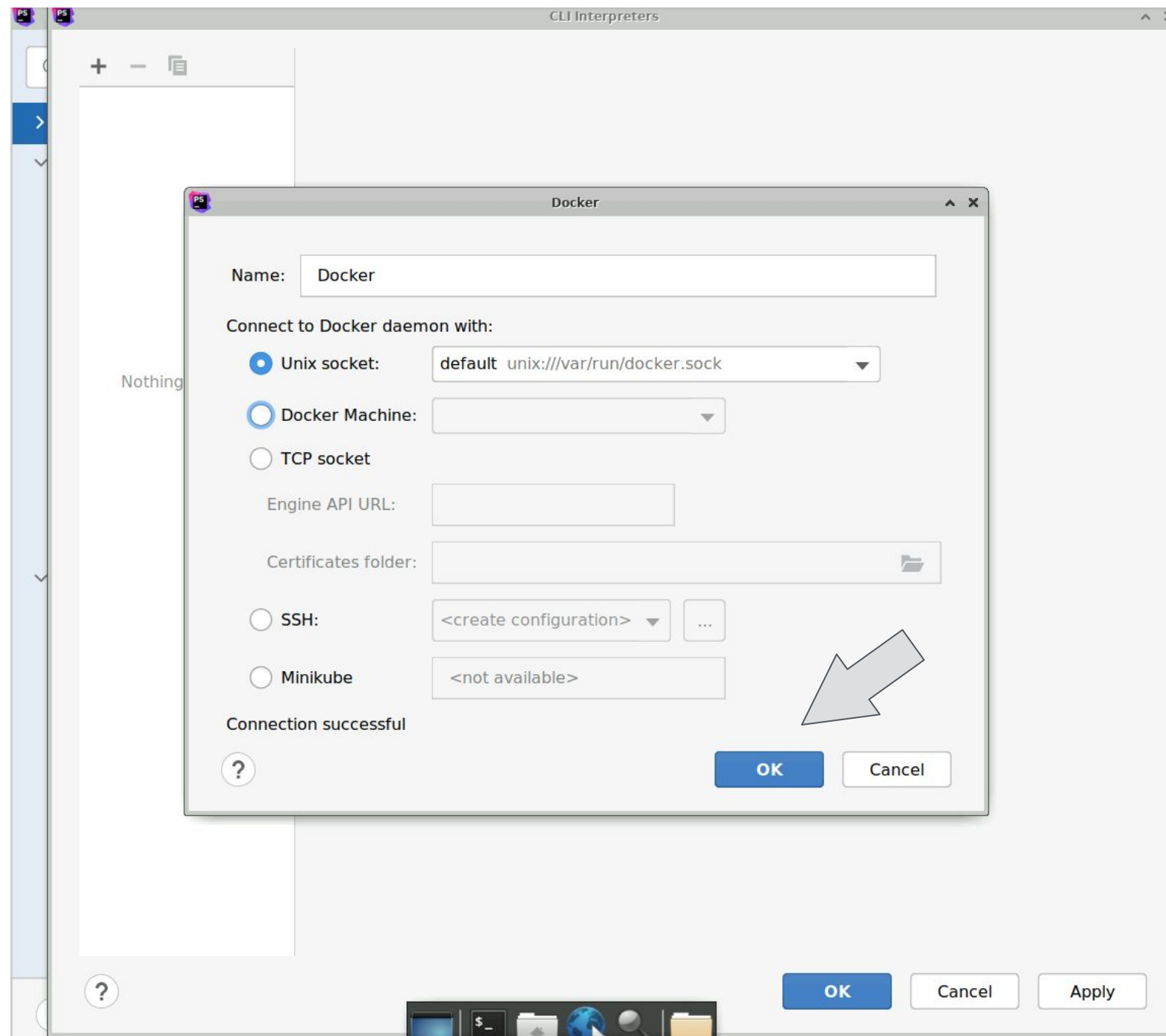
# PHPStorm - Configurar tests



# PHPStorm - Configurar tests

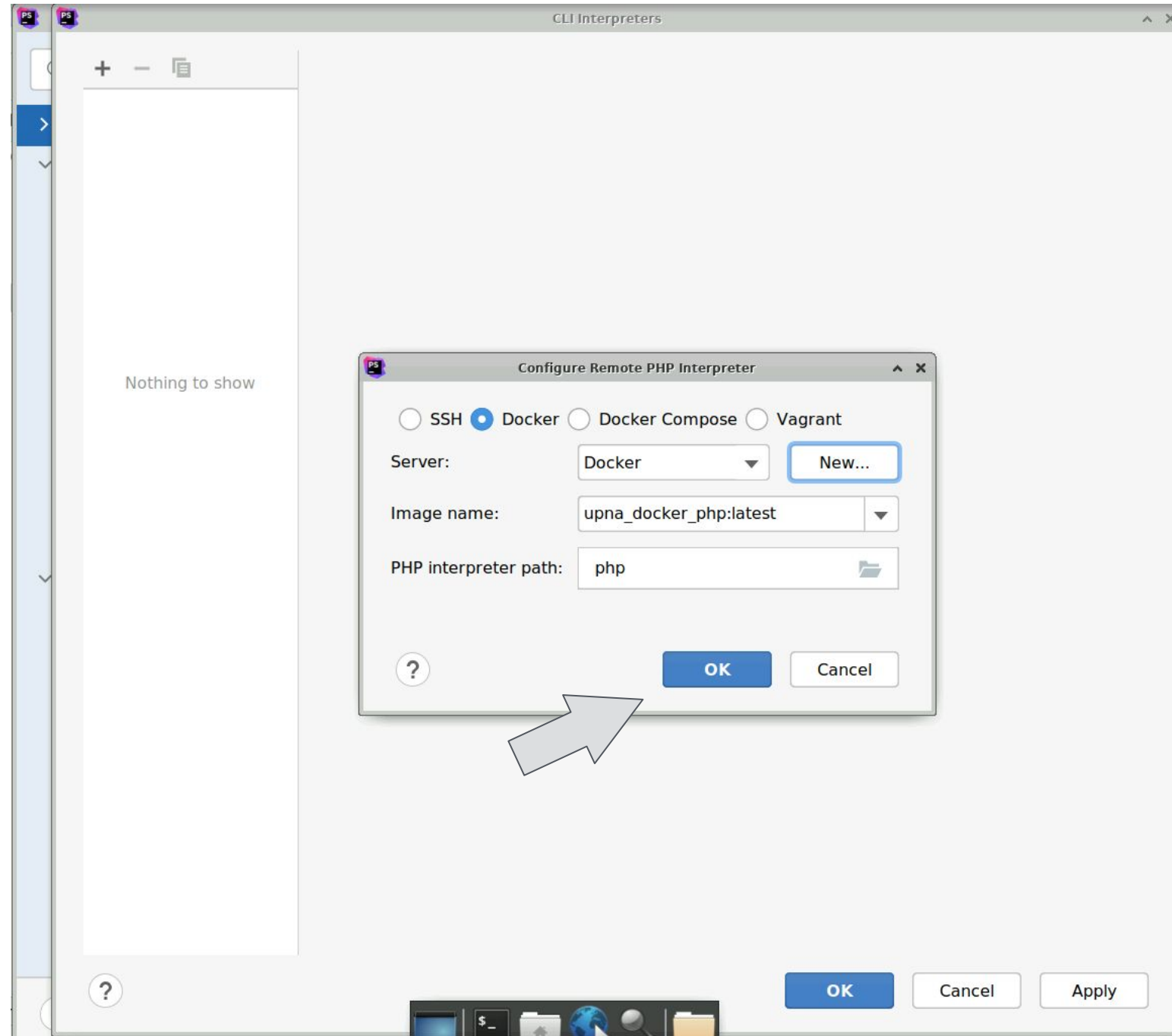
- Si no podéis user Docker utilizad la opción de Docker Compose

# PHPStorm - Configurar tests

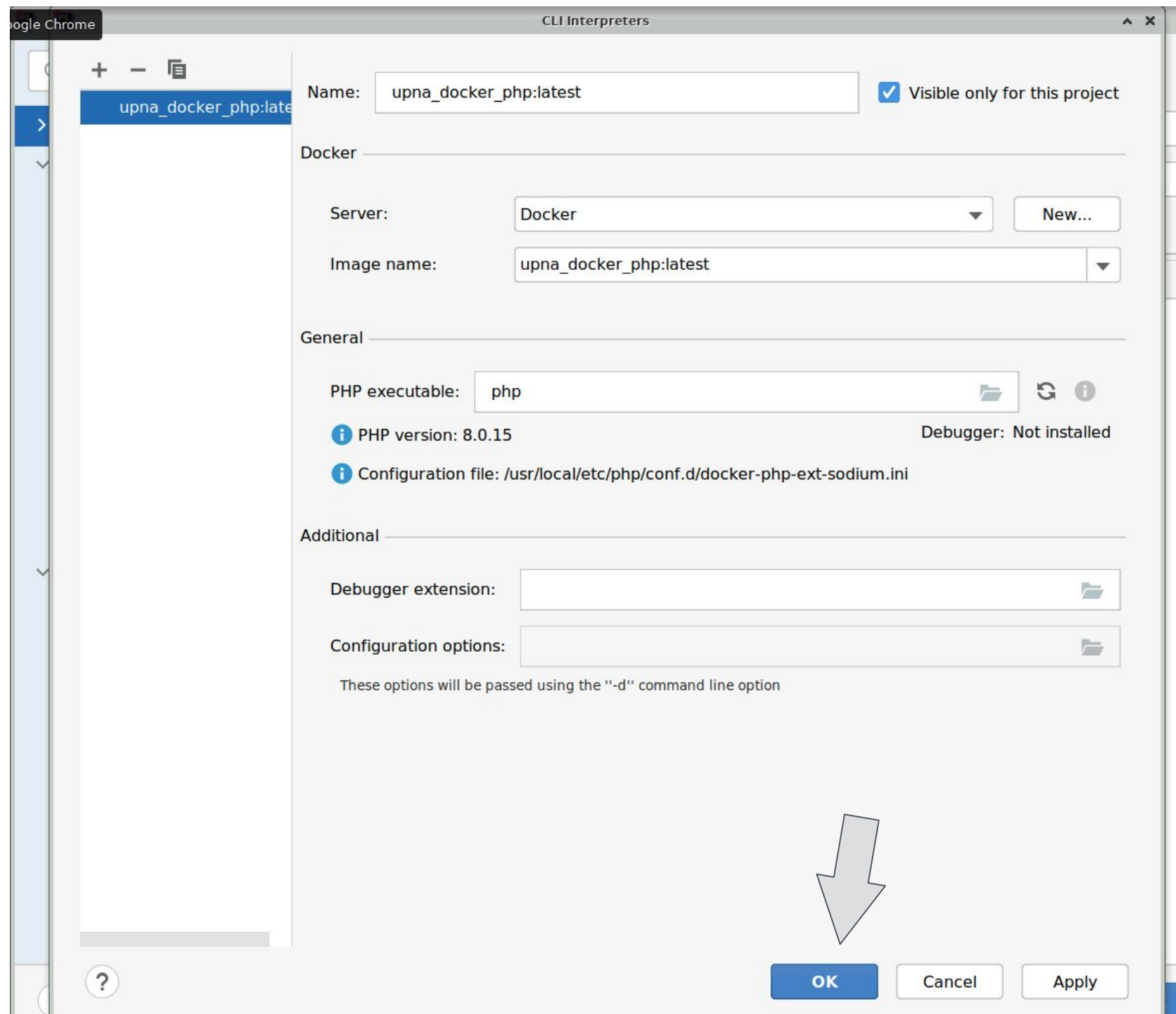




# PHPStorm - Configurar tests

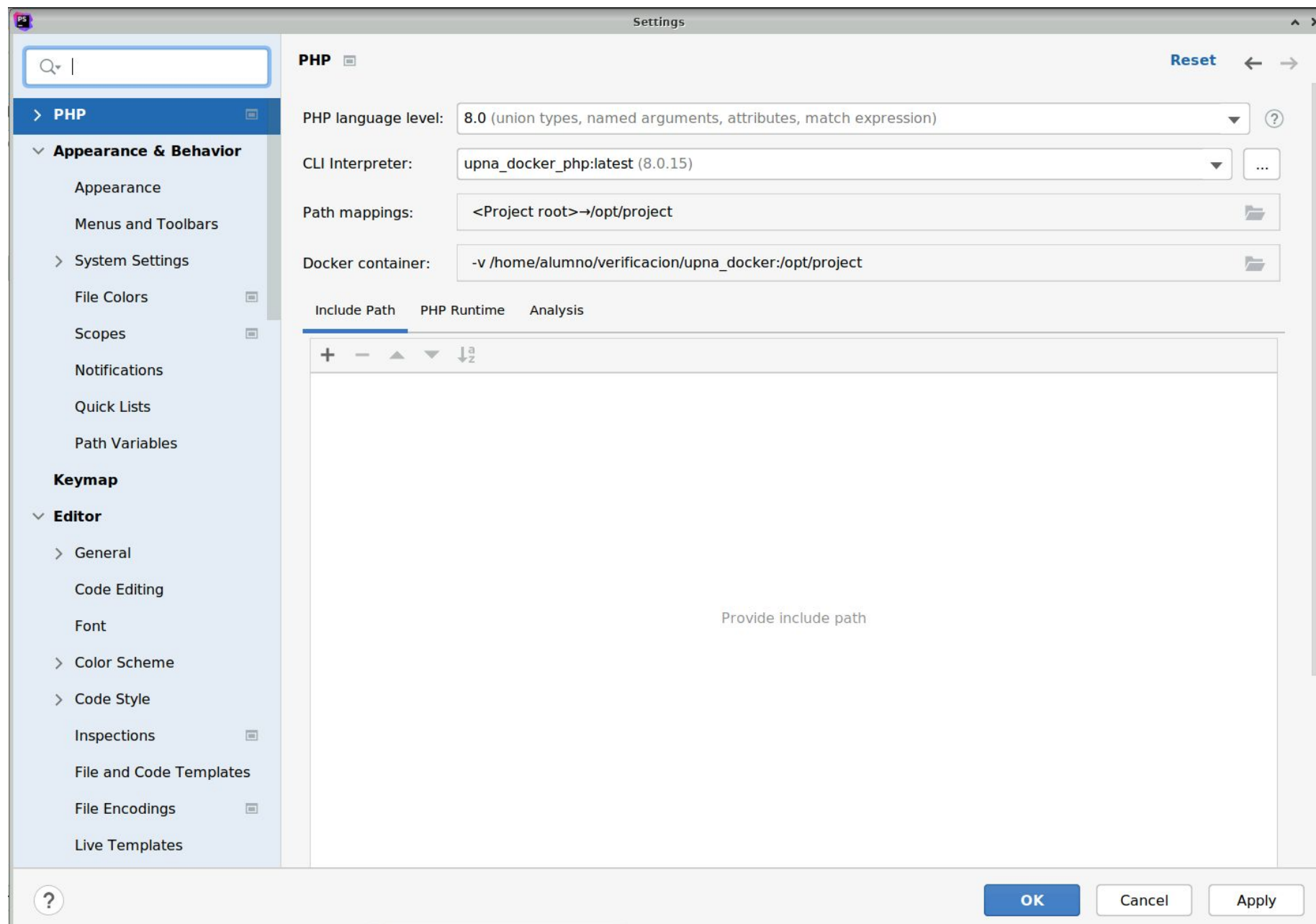


# PHPStorm - Configurar tests

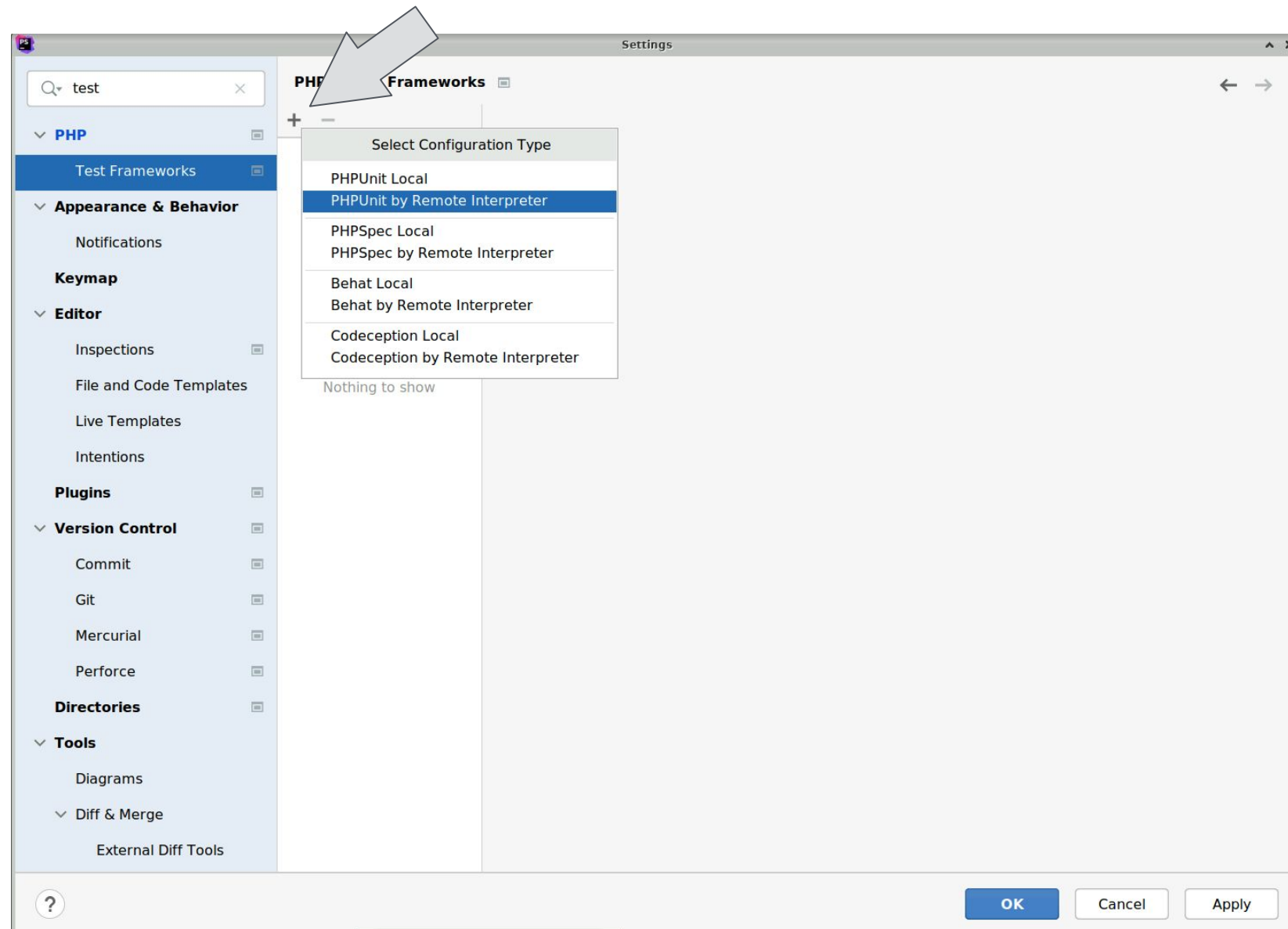


# PHPStorm - Configurar tests

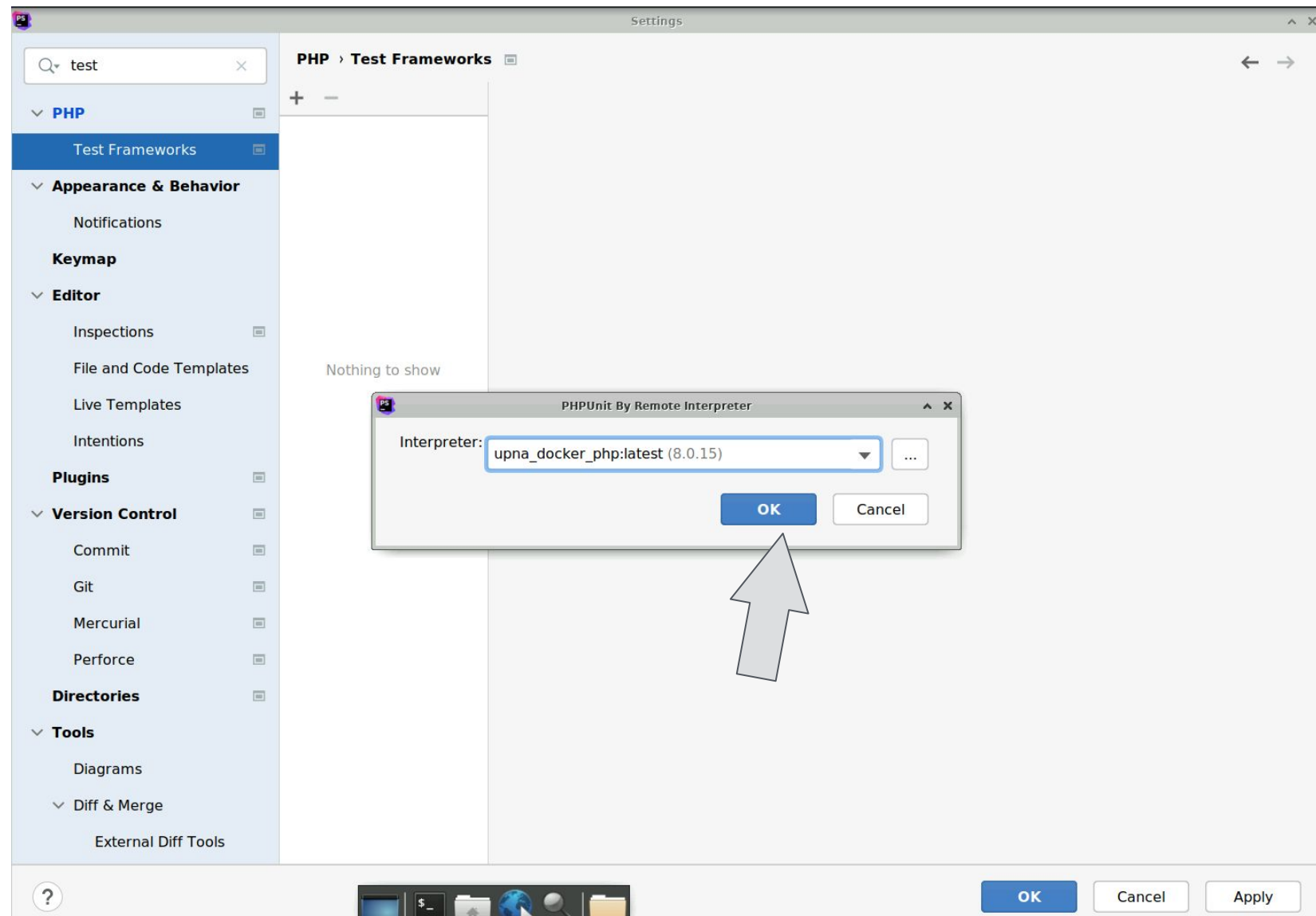
En este punto el CLI ya estaría configurado



# PHPStorm - Configurar tests



# PHPStorm - Configurar tests

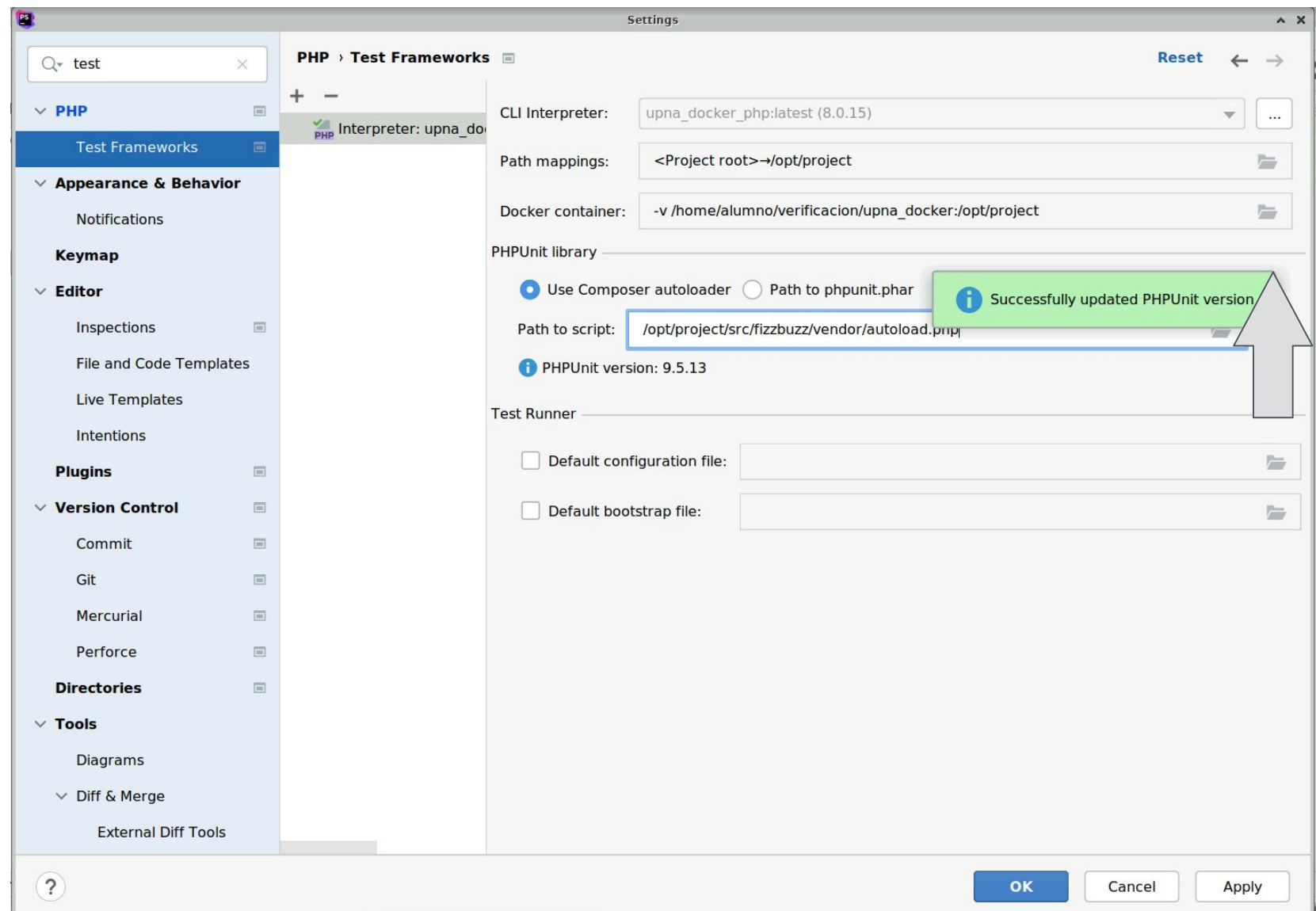


# PHPStorm - Configurar tests

Aquí tenemos que entender que `/opt/project/` va a apuntar a nuestra base del Docker. Por eso, yo, y la mayoría tendréis que añadir a esa base `/src/nombre-carpeta`.

Además, queremos acceder al autoload, que está en `/vendor/autoload.php`

Si no tenéis vendor, es que no habéis hecho composer install



# PHPStorm - Configurar tests





# PHPStorm - Configurar tests

The screenshot shows the PHPStorm IDE interface. The top toolbar includes icons for running tests, with a dropdown menu showing 'CalculatorTest'. The left sidebar shows the project structure with 'upna\_docker' as the root, containing 'src', 'fizzbuzz', and 'tests' directories. The 'tests' directory is expanded, showing 'CalculatorTest.php'. The main editor displays the code for 'CalculatorTest.php', which is a PHPUnit test class. The code includes a namespace declaration, a use statement for 'PHPUnit\Framework\TestCase', and two test methods: 'should\_add\_two\_arguments()' and 'shouldMultiplyTwoArguments()'. The 'should\_add\_two\_arguments()' method is currently selected and highlighted. The bottom panel shows the 'Run' output, indicating that 2 tests failed out of 2 tests, taking 8 ms. The test results are listed in a tree view, showing the failure of 'should\_add\_two\_argu' and 'shouldMultiplyTwoArg'. The output text shows the test results, including the expected and actual values for the 'should\_add\_two\_argu' test.

```
namespace Deg540\PHPTestingBoilerplate\Test;

use ...

final class CalculatorTest extends TestCase
{
    /**
     * @test
     */
    public function should_add_two_arguments()
    {
        $calculator = new Calculator();

        $result = $calculator->add( number1: 1, number2: 2);

        $this->assertEquals( expected: 3, $result);
    }

    /**
     * @test
     */
    public function shouldMultiplyTwoArguments()
    {
        // ...
    }
}
```

Run: CalculatorTest x

Tests failed: 2 of 2 tests - 8 ms

Test Results 8 ms

- ✗ /opt/project/src/fizzbuzz/tests 8 ms
  - ✗ Deg540\PHPTestingBoiler 8 ms
    - ✗ should\_add\_two\_argu 8 ms
      - Failed asserting that 0 matches expected 3.
      - Expected :3
      - Actual :0
      - [Click to see difference](#)
    - ✗ shouldMultiplyTwoArg 0 ms

Git Run TODO Problems Terminal Services

Tests failed: 2, passed: 0 (moments ago)

PHP: 8.0 14:8 LF UTF-8 4 spaces master



Verificación y Validación de Software

Gracias ;)