Connecting Xdebug to PhpStorm

Local • Remote • CLI • Vagrant

Connecting the Xdebug debugger to PhpStorm should not be a matter of luck. This Brown Bag Session tackles the secrets of a simple Xdebug and PhpStorm configuration that just works. The whole session will be a live demonstration of connecting Xdebug to PhpStorm in every useful way: locally and remotely using the host and a Vagrant machine, both from a web server and from the CLI.

Recently on StackOverflow

„Like many, I've spent more hours debugging my IDE’s connection to XDebug than I have using XDebug to debug my programs.

I’ve gotten it to work repeatedly, but [...] I haven’t been able to localize what causes XDebug to work or fail.

What am I doing wrong? How can I better debug my IDE’s connection to Xdebug?“

http://stackoverflow.com/questions/3955226/debugging-ides-port-connection-to-xdebug-waiting-to-connect

Goals

- Setup the debugger connection to PhpStorm
- Exclude factors that you may thought are needed to get it working:
  - „Zero“ configuration in PhpStorm
  - Minimal Xdebug configuration
  - PHP’s internal web server
  - Minimal Vagrant machine

(1) Debug a script in PhpStorm

- Only Xdebug needs to be loaded
- Run > Debug …
- Set breakpoint

(2) Debug website on local machine

- Start listening for debug session in PhpStorm
- `xdebug.remote_enable=1`
- Request debugging from your browser application by adding a cookie named `XDEBUG_SESSION`
- Set breakpoint

Works because by default:

```
xdebug.remote_host=localhost
```

(3) Debug CLI script on local machine

- Start listening for debug session in PhpStorm
- Request debugging from your CLI application by setting an environment variable `XDEBUG_CONFIG`
- Set breakpoint

`XDEBUG_CONFIG` may contain Xdebug config settings: `XDEBUG_CONFIG="remote_port=9001"`

(4) Debug website on Vagrant machine

- Same as on local machine
- PLUS: Configure which server to connect to
- PLUS: Configure a server configuration in PhpStorm for path mapping

- `xdebug.remote_host=x.x.x.x` OR `xdebug.remote_connect_back=1`
- Server config gets detected automtically by IP and Port

(5) Debug CLI script on Vagrant machine

- Same as on local machine
- PLUS: Configure which server to connect to
- PLUS: Configure a server configuration in PhpStorm for path mapping

- `xdebug.remote_host=x.x.x.x`
- Set environment variable `PHP_IDE_CONFIG`:
  `PHP_IDE_CONFIG="serverName=my-app"`

Using PhpStorm configurations

- Create debug configuration with `idekey`
- Start debug session
- Add appropriate `XDEBUG_SESSION` cookie with the same `idekey` to your site

Pimp Symfony’s app_dev.php

```
<?php

// …
$enableCaching = !extension_loaded('xdebug') ||
    (!isset($_REQUEST['XDEBUG_SESSION_START']) &&
         !isset($_COOKIE['XDEBUG_SESSION']) &&
     ini_get('xdebug.remote_autostart') == false);

if ($enableCaching) {
    $loader = require_once __DIR__ . '/../app/
bootstrap.php.cache';
} else {
    require_once __DIR__ . '/../vendor/autoload.php';
}
//…
if ($enableCaching) {
    $kernel->loadClassCache();
}
// …
```