

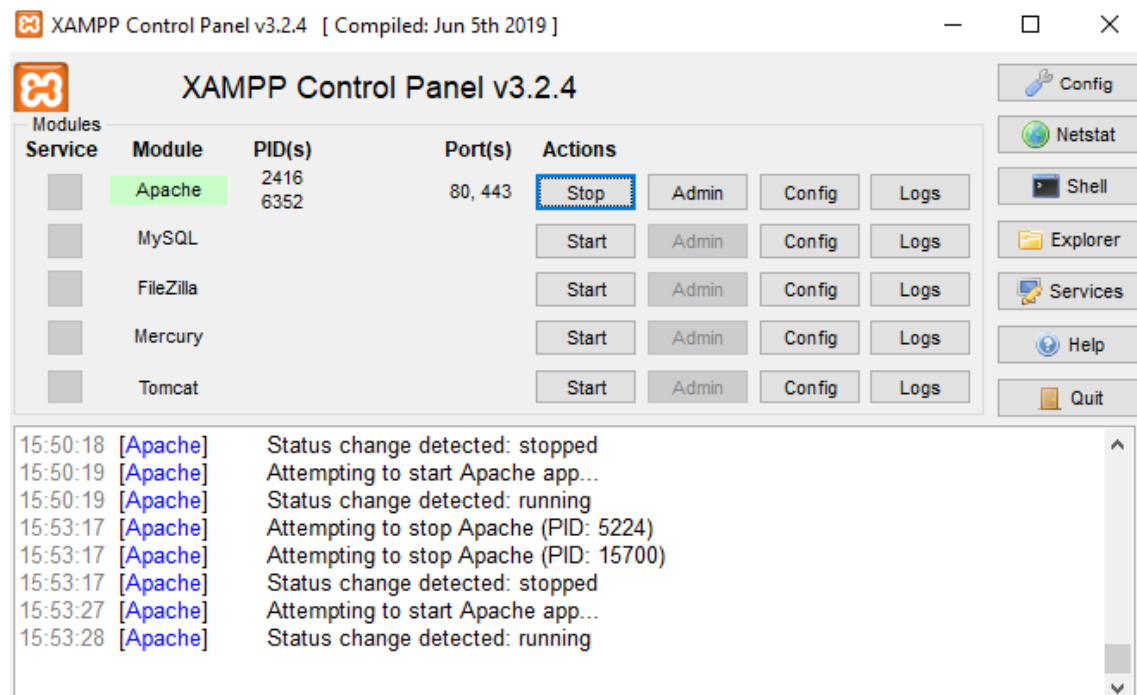
## Weekly Report

Install and set up the following on my PC:

### 1 , 2, 3, 4 - Web server apache, MariaDB, PHPMyAdmin, PHP 7.4

Instead of installing and setting each one, I decided to install XAMPP - Apache + MariaDB + PHP + Perl. I did a normal installation, but without perl because my focus will be on PHP.

After installing it, the UI, it's pretty easy to understand, to start the server I just need to run apache:



And press stop to shut down the server. The same applies to all the other modules, but I didn't get into them this time. I also have easy access to the config files and logs from the UI.

Note: Even though the mode is called MySQL on the xampp UI, the application current works with MariaDB

### 5 - When clicking on the link <http://trabalho1.dev> the browser will show php information.


When the server starts, if I write *localhost* in the web browser it will show xampp information, but since the objective is the browser show us the php info, I just added an *index.php* file with the following php code:

```
c: > Users > flope > Documents > Bruninho > index.php
1  <?php
2
3  // Show all information, defaults to INFO_ALL
4  phpinfo();
5
6  ?>
```

After restarting the server and reload the page the follow will appear:


localhost

PHP Version 7.4.12



System	Windows NT LPTOP-PUPE2DAR 10.0 build 18363 (Windows 10) AMD64
Build Date	Oct 27 2020 17:12:23
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cscrip1 thologo le [script configure.js "--enable-snapshot-build"--enable-debug-pack"--with-pdo-oci=c:\php-snap-build\deps_aux\oracle64\instantclient_12_1\sdk\shared"--with-oc8-12=c:\php-snap-build\deps_aux\oracle64\instantclient_12_1\sdk\shared"--enable-object-out-dir=.obj"--enable-com-dotnet=shared"--without-analyzer"--with-pgo"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	no value
Loaded Configuration File	C:\xampp\php\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902.TS.VC15
PHP Extension Build	API20190902.TS.VC15
Debug Build	no
Thread Safety	enabled
Thread API	Windows Threads
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	php, file, glob, data, http, ftp, zip, compress, zlib, compress, bzip2, https, ftps, phar
Registered Stream Socket Transports	tcp, udp, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk, zlib.*, bzip2.*

This program makes use of the Zend Scripting Language Engine.  
Zend Engine v3.4.0, Copyright (c) Zend Technologies



#### Configuration

The next step is to obtain the same page when clicking <http://trabalho1.dev>.

First, define the Virtual Host on the config file C:\xampp\apache\conf\extra\httpd-vhosts.conf

```
<VirtualHost *:80>
    DocumentRoot C:\Users\flope\Documents\Bruninho
    ServerName trabalho1.dev
    <Directory C:\Users\flope\Documents\Bruninho>
        Order allow,deny
        Allow from all
    </Directory>
</VirtualHost>
```

And after going to C:\Windows\System32\drivers\etc\hosts, open the file as admin and add the following line:

```
# localhost name resolution is handled within DNS itself.
127.0.0.1      trabalho1.dev
::1            localhost
```

Restart the server and reload the page :



## A sua ligação não é privada

Os atacantes poderão estar a tentar roubar as suas informações de **trabalho1.dev** (por exemplo, palavras-passe, mensagens ou cartões de crédito). [Saiba mais](#)

NET::ERR\_CERT\_COMMON\_NAME\_INVALID

☒ Ajude a melhorar a segurança na Web para todos ao enviar [os URLs de algumas páginas que visita](#), [informações limitadas do sistema](#) e [algum conteúdo das páginas](#) para a Google. [Política de Privacidade](#)

Avançadas

Recarregar

The browser doesn't recognize the page as safe, so I will make an ssl certificate on the apache folder C:\xampp\apache, with the file *makecert.bat* and add try to add it to the Virtual Host. I click on *makecert.bat* and wrote the info as asked, the only important point is **to put on common name the server name: trabalho1.dev**. After the process finish it creates a certificate file and key. Now back to the Virtual host config file and add the following code:

```
# https

<VirtualHost trabalho1.dev:443>
    DocumentRoot C:\Users\flope\Documents\Bruninho
    ServerName trabalho1.dev
    SSLEngine on
    SSLCertificateFile "C:/xampp/apache/conf/ssl.crt/server.crt"
    SSLCertificateKeyFile "C:/xampp/apache/conf/ssl.key/server.key"
    <Directory C:\Users\flope\Documents\Bruninho>
        AllowOverride All
        Order allow,deny
        Allow from all
    </Directory>
</VirtualHost>
```

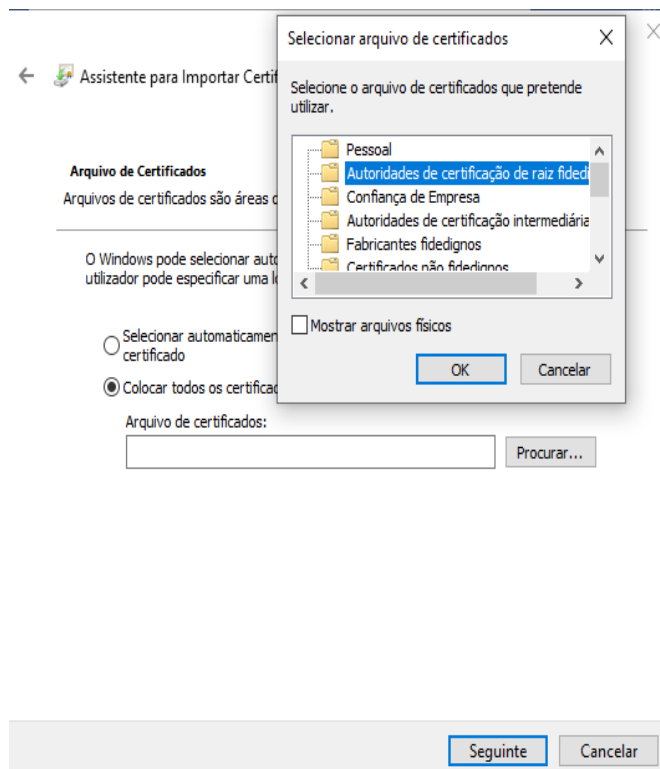
For https the port has to be 443 instead of 80 and I added the certificate file and key path. Also uncomment the following line on C:\xampp\apache\conf\httpd.conf

```
177 LoadModule ssl_module modules/mod_ssl.so
```

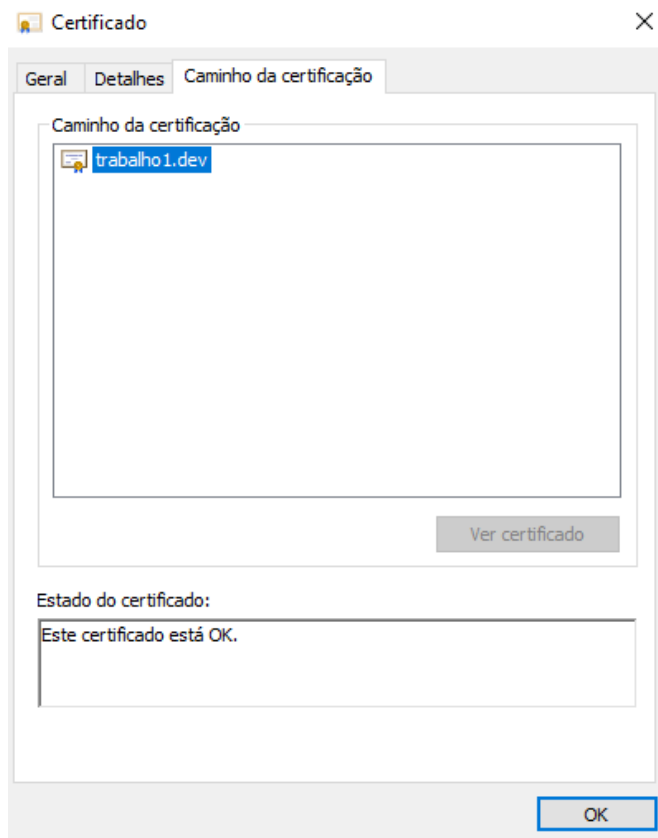
Restarted the apache and I still got the same error, so i try to install the certificate on the folder C:\xampp\apache\conf\ssl.crt :




During the installation I followed the steps and selected this folder for the certificate archive:



And in the end i got this:



Now I went to google chrome an don definitions > security i imported the certificate to the browser:

←  Assistente para Importar Certificados

#### Ficheiro a Importar

Especifique o ficheiro que pretende importar.

Nome de ficheiro:

C:\xampp\apache\conf\ssl.crt\server.crt

Procurar...

Nota: é possível armazenar mais de um certificado num único ficheiro, nos seguintes formatos:

Personal Information Exchange- PKCS n.º12 (.PFX,.P12)

Padrão de Sintaxe de Mensagens Criptográficas - Certificados PKCS n.º7 (.P7B)

Arquivo de Certificados Serializados (.SST) da Microsoft

Seguinte

Cancelar

**PHP Version 7.4.12**

System	Windows NT LAPTDP-PUREZDRH 10.0 build 18363 (Windows 10) AMD64
Built Date	Oct 27 2020 17:12:23
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cscript /nologo tsconfig.js "--enable-snapshot-build"--enable-debug-pack"--with-pdo-curl;php-snap-builddeps_auroracv64instantclient_t2_tsdkshared"--with-openssl=php-snap-builddeps_auroracv64instantclient_t2_tsdkshared"--enable-object-out-dir=.obj/"--enable-com-dotnet-shared"--without-analyzer"--with-pgsql"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\xampp\php\php.ini
Loaded Configuration File	(none)
Scan this dir for additional .ini files	(none)
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Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	php, file, glob, data, http, ftp, zip, compress.zlib, compress.bzip2, https, fips, phar
Registered Stream Socket Transports	tcp, udp, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk, zlib.*, bzip2.*

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 Zend Engine v4.0.0, Copyright (c) Zend Technologies

**zendengine**

**6 - The websites will be located on the folder Documentos/bruninho**

```
DocumentRoot "C:\Users\flope\Documents\Bruninho"
<Directory "C:\Users\flope\Documents\Bruninho">
    #
```

I choose Visual Studio Code and I'm getting used to it. It has extensions for php, javascript and other programming languages that can be useful in the future. It is very intuitive and easy to use.