

Installation and Configuration Steps for Database Connection using PHP

1. Install PHP development environment

<https://www.apachefriends.org/index.html>

Download XAMPP for windows (take note of the XAMPP version)

2. Download PHP drivers

<https://learn.microsoft.com/en-us/sql/connect/php/download-drivers-php-sql-server?view=sql-server-ver15>

click the **Download Microsoft Drivers for PHP for SQL Server (Windows)** to download the drivers

- 2.1 Open the downloaded folder and look for the correct driver for the XAMPP version you have downloaded.

Ex. If you have downloaded XAMPP version 8.1.10, look for the following drivers:

php_pdo_sqlsrv_81_ts_x64.dll

php_sqlsrv_81_ts_x64.dll

- 2.2 Go to your local drive C: and look for the *xampp* folder. Inside the xampp folder find the *php* folder then the *ext* folder. Copy and paste the drivers in this folder.

- 2.3 Go back to the *php* folder and look for the *php.ini* file. Open the file in notepad. Scroll or find the area where extensions are listed : ex. *extension=bz2* and others

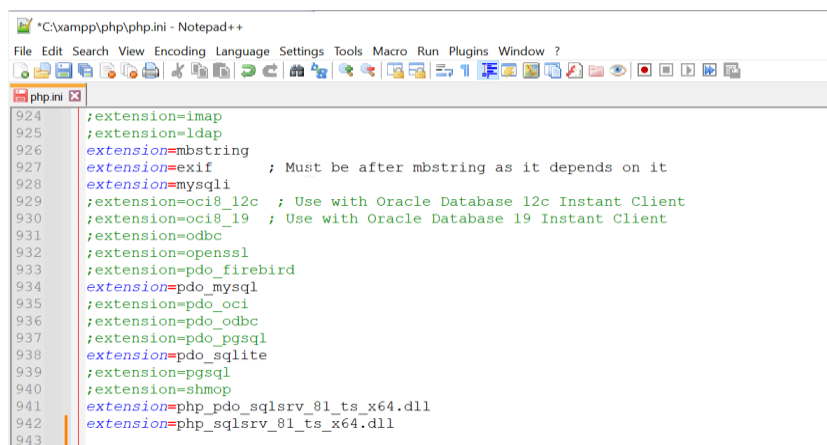
Go to the last line of the extensions and add these two more extensions:

extension=<name of the driver1>

extension=<name of driver2>

ex. *extension=php_pdo_sqlsrv_81_ts_x64.dll*

extension=php_sqlsrv_81_ts_x64.dll



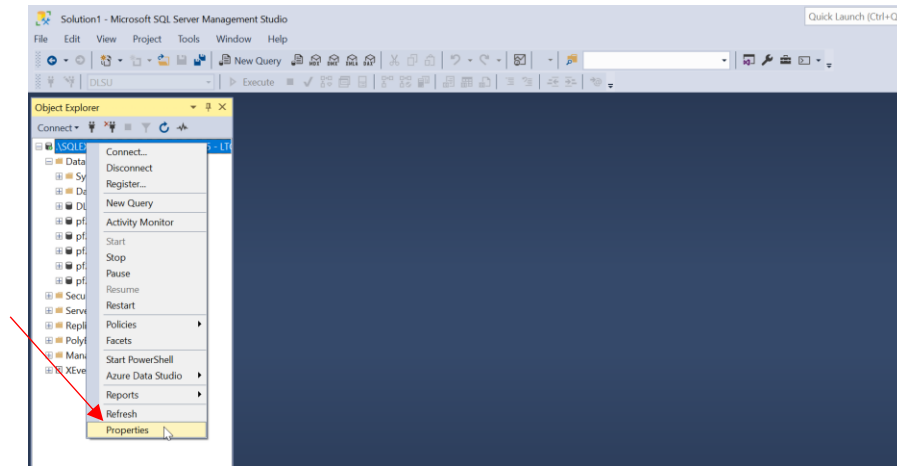
```
*C:\xampp\php\php.ini - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
php.ini
924 ;extension=imap
925 ;extension=ldap
926 extension=mbstring
927 extension=exif ; Must be after mbstring as it depends on it
928 extension=mysqli
929 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
930 ;extension=oci8_19 ; Use with Oracle Database 19 Instant Client
931 ;extension=odbc
932 ;extension=openssl
933 ;extension=pdo_firebird
934 extension=pdo_mysql
935 ;extension=pdo_oci
936 ;extension=pdo_odbc
937 ;extension=pdo_pgsql
938 extension=pdo_sqlite
939 ;extension=pgsql
940 ;extension=shmop
941 extension=php_pdo_sqlsrv_81_ts_x64.dll
942 extension=php_sqlsrv_81_ts_x64.dll
943
```

2.4 Save the *php.ini* file.

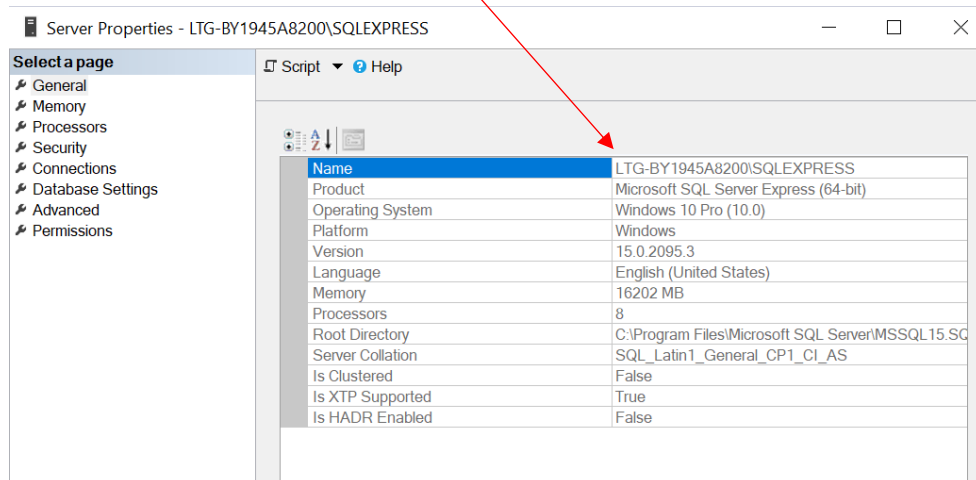
3. Make sure that SQL Server Management Studio (SSMS) is installed in your computer.

3.1 Open SSMS and connect to the SQLExpress Server

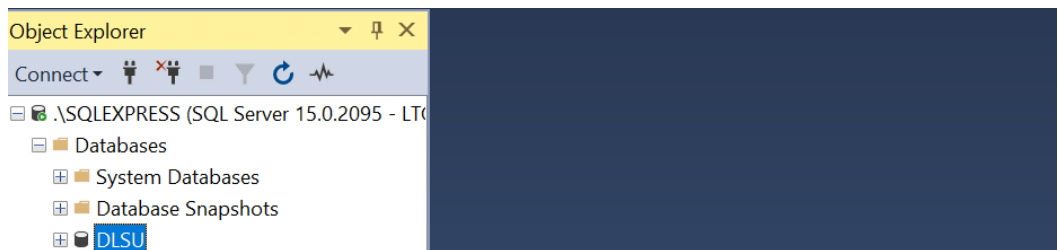
3.2 Once connected, in the Object Explorer, right-click on the SQLExpress server and open properties.



3.3 Take note of the complete Server name



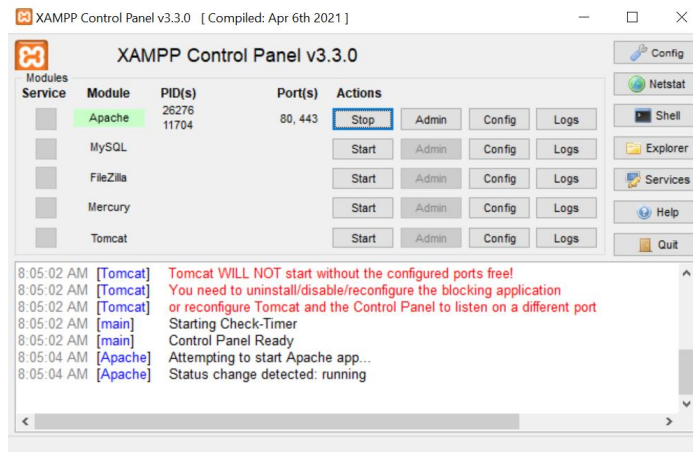
3.4 Make sure that the DLSU database is present in the server



- Go to your local drive C: and look for the *xampp* folder. Inside the *xampp* folder look for the *htdocs* folder. Inside the *htdocs* folder, create a new folder. ex. *webapp*
- Open your Visual Studio Code. File > Open Folder, locate and open the folder you have created inside the *htdocs* folder.
- Add new file, name it as *connect.php*. Type the below code and save.

```
<?php
$serverName="the complete name of your sqlexpress server";
$connectionOptions=[
"Database"=>"DLSU",
"Uid"=>"",
"PWD"=>""
];
$conn=sqlsrv_connect($serverName, $connectionOptions);
if($conn==false)
    die(print_r(sqlsrv_errors(),true));
else echo 'Connection Success';
```

- Open the XAMPP application and make sure that the Apache module is running. If not, click start.
To open: Search for XAMPP in your taskbar



- Open your google chrome browser and type this url:

<http://localhost/webapp/connect.php>

Note: change "webapp" if you have a different folder name

- You should see a connection success message if the configuration is correct.