# How to install XAMPP and Oracle

1. Follow the <https://blogs.oracle.com/opal/installing-xampp-for-php-and-oracle-database>

(included in this document)

1. Generate certificate using the file **makecert.bat** (intuitive guide)

Self-generated certificate supports ssl but is regarded by web browser as “danegerous”

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| Notes:   1. Ignore error about conflicted ports (Tomcat)- not important      1. Remember to download x86 client (not 64) 2. I downloaded PHP newest libraries from [pecl.php.net](https://pecl.php.net/package/oci8), not sure if this is needed 3. Remember to install [**Microsoft Visual Studio 2013 Redistributable**](https://support.microsoft.com/en-us/kb/2977003#bookmark-vs2013) required by instant client 4. Restart is not needed. 5. Path for instant client is any 6. No national chars? Replace the line   $c = oci\_connect($username, $password, $database);  With  $c = oci\_connect($username, $password, $database, 'AL32UTF8');   1. Connection for local database (to be set in test.php) is   $database = "//localhost:1521/xe"; |

# Resolving “Port 8080 in use by tnslsnr.exe”

Option 1

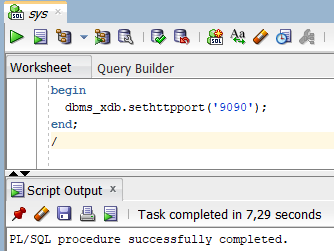
Sqlplus sys

begin

dbms\_xdb.sethttpport('9090');

end;

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Option 2

Go to C:\xampp\tomcat\conf\server.xml

change <Connector port="8080" to any port that you want for example <Connector port="7070" and restart tomcat

Source <https://blogs.oracle.com/opal/installing-xampp-for-php-and-oracle-database>

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| * Friday, February 23, 2018 * https://cdn.app.compendium.com/uploads/user/a7c086f7-9adb-4d2c-90fa-e26177af8317/4790e630-263f-4339-828b-30ac369e19ac/File/811168121f72922169d296312959b1b2/share_iconx2.png  ling XAMPP on Windows for PHP and Oracle DatabaseTo install XAMPP:  1. Download "[XAMPP for Windows](https://www.apachefriends.org/index.html)" and follow the installer wizard. I installed into my D: drive. 2. Start the Apache server via the XAMPP control panel.   screenshot of XAMPP control panel   1. Visit http://localhost/dashboard/phpinfo.php via your browser to see the architecture and thread safety mode of the installed PHP. Please note this is the architecture of the installed PHP and not the architecture of your machine. It’s possible to run a x86 PHP on an x64 machine.   screenshot of PHP configuration showing the PHP OS architecture as x86   1. [Optional] Oracle OCI8 is pre-installed in XAMPP but if you need a newer version you can download an updated OCI8 PECL package from [pecl.php.net](https://pecl.php.net/package/oci8). Pick an OCI8 release and select the DLL according to the architecture and thread safety mode. For example, if PHP is x86 and thread safety enabled, download "7.2 Thread Safe (TS) x86". Then replace "D:\xampp\php\ext\php\_oci8\_12c.dll" with the new "php\_oci8\_12c.dll" from the OCI8 PECL package.   screenshot of PECL OCI8 download page     1. Edit "D:\xampp\php\php.ini" and uncomment the line "extension=oci8\_12c". Make sure "extension\_dir" is set to the directory containing the PHP extension DLLs. For example,   extension=oci8\_12c  extension\_dir="D:\xampp\php\ext"   1. Download the Oracle Instant Client Basic package from [OTN](http://www.oracle.com/technetwork/database/database-technologies/instant-client/downloads/index.html).   Select the correct architecture to align with PHP's. For Windows x86 download "instantclient-basic-nt-12.2.0.1.0.zip" from the Windows 32-bit page.  screenshot of Oracle Instant Client download page   1. Extract the file in a directory such as "D:\Oracle". A subdirectory "D:\Oracle\instantclient\_12\_2" will be created.   Add this subdirectory to the PATH environment variable. You can update PATH in Control Panel -> System -> Advanced System Settings -> Advanced -> Environment Variables -> System Variables -> PATH. In my example I set it to "D:\Oracle\instantclient\_12\_2".   1. Restart the Apache server and check the phpinfo.php page again. It shows the OCI8 extension is loaded successfully.   screenshot of PHP configuration page showing a section for OCI8  If you also run PHP from a terminal window, make sure to close and reopen the terminal to get the updated PATH value.   1. To run your first OCI8 application, create a new file in the XAMPP document root "D:\xampp\htdocs\test.php". It should contain:  |  | | --- | | <?php    error\_reporting(E\_ALL);  ini\_set('display\_errors', 'On');    $username = "hr";                  // Use your username  $password = "welcome";             // and your password  $database = "localhost/orclpdb";   // and the connect string to connect to your database    $query = "select \* from dual";    $c = oci\_connect($username, $password, $database);  if (!$c) {      $m = oci\_error();      trigger\_error('Could not connect to database: '. $m['message'], E\_USER\_ERROR);  }    $s = oci\_parse($c, $query);  if (!$s) {      $m = oci\_error($c);      trigger\_error('Could not parse statement: '. $m['message'], E\_USER\_ERROR);  }  $r = oci\_execute($s);  if (!$r) {      $m = oci\_error($s);      trigger\_error('Could not execute statement: '. $m['message'], E\_USER\_ERROR);  }    echo "<table border='1'>\n";  $ncols = oci\_num\_fields($s);  echo "<tr>\n";  for ($i = 1; $i <= $ncols; ++$i) {      $colname = oci\_field\_name($s, $i);      echo "  <th><b>".htmlspecialchars($colname,ENT\_QUOTES|ENT\_SUBSTITUTE)."</b></th>\n";  }  echo "</tr>\n";    while (($row = oci\_fetch\_array($s, OCI\_ASSOC+OCI\_RETURN\_NULLS)) != false) {      echo "<tr>\n";      foreach ($row as $item) {          echo "<td>";          echo $item!==null?htmlspecialchars($item, ENT\_QUOTES|ENT\_SUBSTITUTE):"&nbsp;";          echo "</td>\n";      }      echo "</tr>\n";  }  echo "</table>\n";    ?> |  1. You need to edit this file and set your database username, password and connect string. If you are using Oracle Database XE, then the connect string should be "localhost/XE". 2. The SQL query can also be changed. Currently it queries the special DUAL table, which every user has. 3. Load the test program in a browser using http://localhost/test.php. The output will be the single value "X" in the column called "DUMMY".   https://cdn.app.compendium.com/uploads/user/e7c690e8-6ff9-102a-ac6d-e4aebca50425/c352d68a-546c-4af7-94d8-04e1e09e802c/Image/11fc439c3722181d1ae1d7c66b5358b4/picture6.png  You can read more about [PHP OCI8 in the PHP manual](http://php.net/oci8), and in the free [Underground PHP and Oracle Manual](http://www.oracle.com/technetwork/topics/php/underground-php-oracle-manual-098250.html) from Oracle.  Enjoy your coding with OCI8! |