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# Installing XAMPP on Windows for PHP and Oracle Database

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SENIOR PRINCIPAL PRODUCT MANAGER

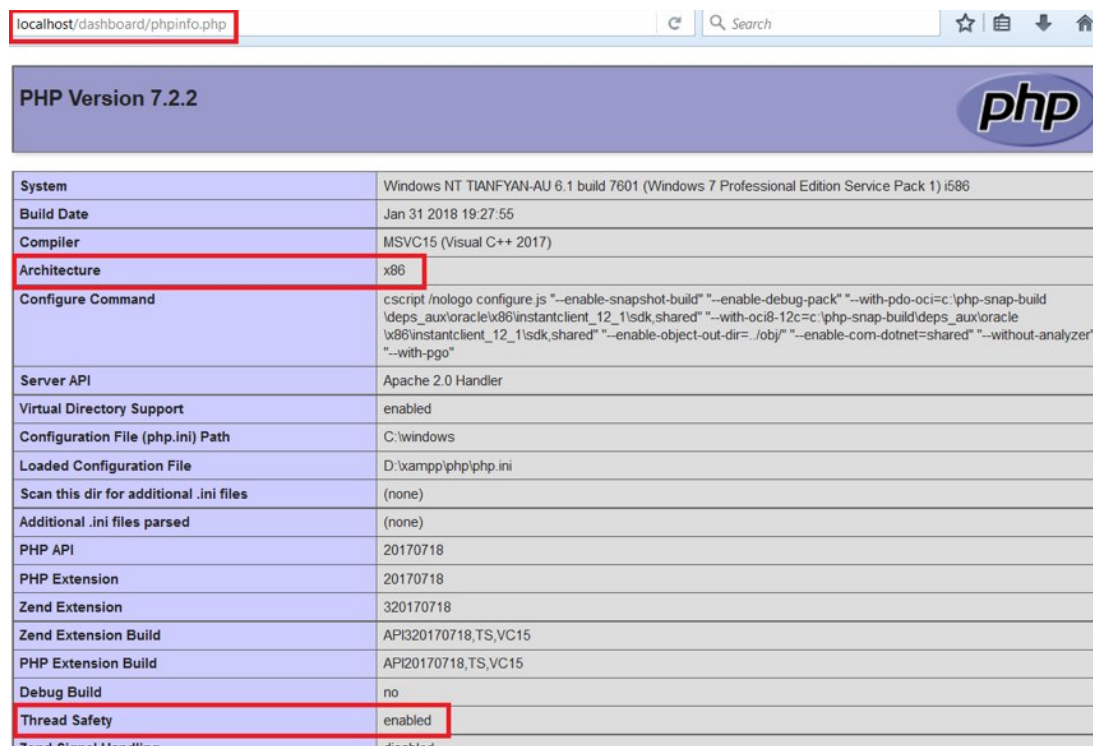
*Today's guest post comes from Tianfang Yang who's been working with the Oracle Database extensions for PHP.*

This post shows how to install XAMPP on Windows to run PHP applications that connect to a remote Oracle Database.

XAMPP is an open source package that contains Apache, PHP and many PHP 'extensions'. One of these extension is PHP OCI8 which connects to Oracle Database.

To install XAMPP:

1. Download "[XAMPP for Windows](#)" and follow the installer wizard.  
I installed into my D: drive.
2. Start the Apache server via the XAMPP control panel.
3. 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.



PHP Version 7.2.2	
System	Windows NT TIANFYAN-AU 6.1 build 7601 (Windows 7 Professional Edition Service Pack 1) i586
Build Date	Jan 31 2018 19:27:55
Compiler	MSVC15 (Visual C++ 2017)
Architecture	x86
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-pdo-oci=c:\php-snap-build\deps_aux\oracle\x86\instantclient_12_1\sdk,shared" "--with-oci8-12c=c:\php-snap-build\deps_aux\oracle\x86\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	C:\windows
Loaded Configuration File	D:\xampp\php\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20170718
PHP Extension	20170718
Zend Extension	320170718
Zend Extension Build	API320170718,TS,VC15
PHP Extension Build	API20170718,TS,VC15
Debug Build	no
Thread Safety	enabled
Zend Signal Handling	disabled

4. [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](http://pecl.php.net). 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.

Available Releases					
Version	State	Release Date		Downloads	
<a href="#">2.1.8</a>	stable	2017-10-18	<a href="#">oci8-2.1.8.tgz</a> (189.6kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.7</a>	stable	2017-08-15	<a href="#">oci8-2.1.7.tgz</a> (189.4kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.4</a>	stable	2017-04-12	<a href="#">oci8-2.1.4.tgz</a> (187.5kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.3</a>	stable	2016-11-11	<a href="#">oci8-2.1.3.tgz</a> (187.4kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.2</a>	stable	2016-08-18	<a href="#">oci8-2.1.2.tgz</a> (187.3kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.12</a>	stable	2016-08-18	<a href="#">oci8-2.0.12.tgz</a> (187.5kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.1</a>	stable	2016-04-18	<a href="#">oci8-2.1.1.tgz</a> (187.9kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.11</a>	stable	2016-04-18	<a href="#">oci8-2.0.11.tgz</a> (187.5kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.1.0</a>	stable	2015-12-12	<a href="#">oci8-2.1.0.tgz</a> (186.7kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.10</a>	stable	2015-12-12	<a href="#">oci8-2.0.10.tgz</a> (186.9kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.8</a>	stable	2014-03-12	<a href="#">oci8-2.0.8.tgz</a> (186.4kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.7</a>	stable	2014-02-10	<a href="#">oci8-2.0.7.tgz</a> (186.3kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>
<a href="#">2.0.6</a>	stable	2013-10-21	<a href="#">oci8-2.0.6.tgz</a> (185.2kB)	<a href="#">DLL</a>	<a href="#">[Changelog]</a>

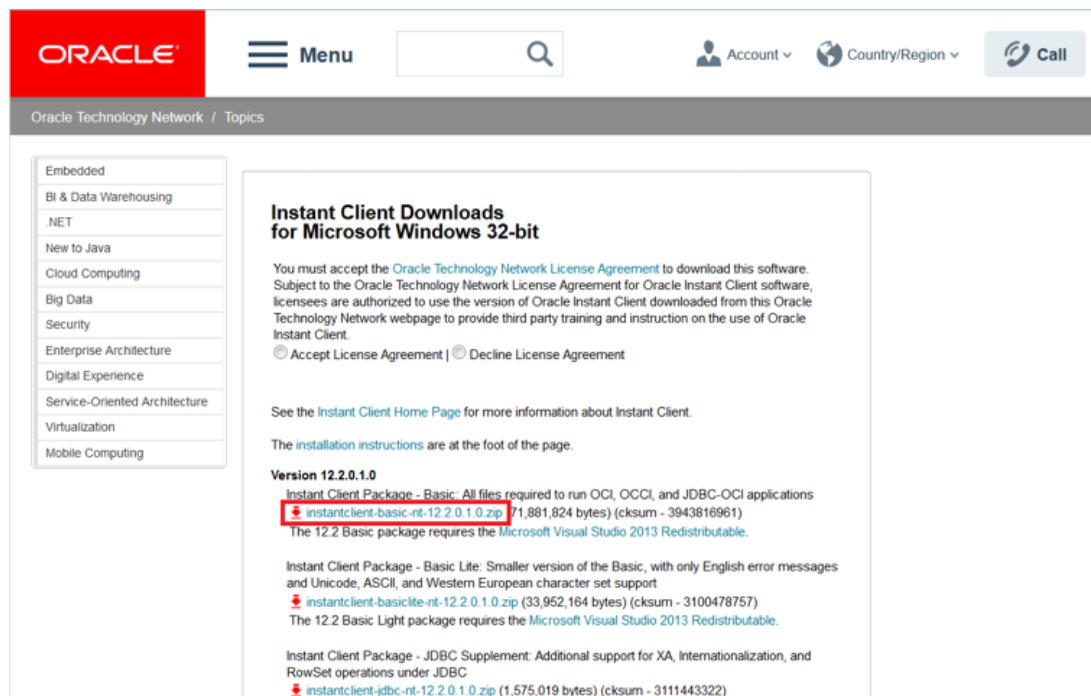
5. Edit "D:\xampp\php\php.ini" and uncomment the line "extension=oci8\_12c". Make sure "extension\_dir" is set to the directory containing the PHP extension DLLs. For example,

```
extension=oci8_12c
```

```
extension_dir="D:\xampp\php\ext"
```

6. Download the Oracle Instant Client Basic package from [OTN](#).

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.



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### Instant Client Downloads for Microsoft Windows 32-bit

You must accept the [Oracle Technology Network License Agreement](#) to download this software. Subject to the Oracle Technology Network License Agreement for Oracle Instant Client software, licensees are authorized to use the version of Oracle Instant Client downloaded from this Oracle Technology Network webpage to provide third party training and instruction on the use of Oracle Instant Client.

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See the [Instant Client Home Page](#) for more information about Instant Client.

The installation instructions are at the foot of the page.

**Version 12.2.0.1.0**

Instant Client Package - Basic: All files required to run OCI, OCCI, and JDBC-OCI applications  
**instantclient-basic-nt-12.2.0.1.0.zip** (71,881,824 bytes) (cksum - 3943816961)  
The 12.2 Basic package requires the [Microsoft Visual Studio 2013 Redistributable](#).

Instant Client Package - Basic Lite: Smaller version of the Basic, with only English error messages and Unicode, ASCII, and Western European character set support  
**instantclient-basiclite-nt-12.2.0.1.0.zip** (33,952,164 bytes) (cksum - 3100478757)  
The 12.2 Basic Light package requires the [Microsoft Visual Studio 2013 Redistributable](#).

Instant Client Package - JDBC Supplement: Additional support for XA, Internationalization, and RowSet operations under JDBC  
**instantclient-jdbc-nt-12.2.0.1.0.zip** (1,575,019 bytes) (cksum - 3111443322)

7. 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".

8. Restart the Apache server and check the phpinfo.php page again. It shows the OCI8 extension is loaded successfully.

## oci8

OCI8 Support	enabled
OCI8 DTrace Support	disabled
OCI8 Version	2.1.8
Revision	\$Id: 8a26cf66ca0f9556b6376408c8f71ead69bdbcbf \$
Oracle Run-time Client Library Version	12.2.0.1.0
Oracle Compile-time Instant Client Version	12.1

Directive	Local Value	Master Value
oci8.connection_class	no value	no value
oci8.default_prefetch	100	100
oci8.events	Off	Off
oci8.max_persistent	-1	-1
oci8.old_oci_close_semantics	Off	Off
oci8.persistent_timeout	-1	-1
oci8.ping_interval	60	60
oci8.privileged_connect	Off	Off
oci8.statement_cache_size	20	20

Statistics	
Active Persistent Connections	0
Active Connections	0

If you also run PHP from a terminal window, make sure to close and reopen the terminal to get the updated PATH value.

- To run your first OCI8 application, create a new file in the XAMPP document root "D:\xampp\htdocs\test.php". It should contain:

```

1  <?php
2
3  error_reporting(E_ALL);
4  ini_set('display_errors', 'On');
5
6  $username = "hr";           // Use your username
7  $password = "welcome";     // and your password
8  $database = "localhost/orclpdb"; // and the connect string to c
9
10 $query = "select * from dual";
11
12 $c = oci_connect($username, $password, $database);
13 if (!$c) {
14     $m = oci_error();
15     trigger_error('Could not connect to database: '. $m['message
16 }
17
18 $s = oci_parse($c, $query);
19 if (!$s) {
20     $m = oci_error($c);
21     trigger_error('Could not parse statement: '. $m['message'],
22 
```

```

23 }
24 $r = oci_execute($s);
25 if (!$r) {
26     $m = oci_error($s);
27     trigger_error('Could not execute statement: '. $m['message'])
28 }
29
30 echo "<table border='1'>\n";
31 $ncols = oci_num_fields($s);
32 echo "<tr>\n";
33 for ($i = 1; $i <= $ncols; ++$i) {
34     $colname = oci_field_name($s, $i);
35     echo "  <th><b>".htmlspecialchars($colname, ENT_QUOTES|ENT_SUI
36 }
37 echo "</tr>\n";
38
39 while (($row = oci_fetch_array($s, OCI_ASSOC+OCI_RETURN_NULLS)) !
40     echo "<tr>\n";
41     foreach ($row as $item) {
42         echo "<td>";
43         echo $item!==null?htmlspecialchars($item, ENT_QUOTES|ENT_
44         echo "</td>\n";
45     }
46     echo "</tr>\n";
47 }
48 echo "</table>\n";
49
?>

```

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".

The SQL query can also be changed. Currently it queries the special DUAL table, which every user has.

10. 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".

DUMMY
X

You can read more about [PHP OCI8 in the PHP manual](#), and in the free [Underground PHP and Oracle Manual](#) from Oracle.

Enjoy your coding with OCI8!

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The Oracle Linux group is pushing forward hard and their latest news is that Instant Client RPMs for Oracle Linux are downloadable for Oracle.

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