

Installing XAMPP and LDAP with MySQL

Decisions, decisions

Before starting, decide on the name you want to use as your site name. For example, if the name you wanted to use was for John Doe, you could use the ID *johndoe.com*. In any case, we'll use this as the example here.

If you're using 64-bit windows, make sure you get the 64-bit version of OpenLDAP and of the ODBC driver. Similarly, if you have 32-bit Windows, make sure you get the 32-bit versions.

Install OpenLDAP

There's a good article on installing OpenLDAP on Windows here:

<http://www.zytrax.com/books/ldap/ch4/win2k.html>, but here is a simple set of instructions:

- Download from here: <http://sourceforge.net/projects/openldapwindows/>
- Unzip the download and run the only file in it. It displays the welcome screen - click *Next*>
- It shows the Licence details – accept the agreement and click *Next*>
- Click *Next*> on the Information screen
- Change the name of the organization, in our case *johndoe.com*, and click *Next*>

Organisation:

johndoe.com

- Specify where to install it – we'll use the default *C:\OpenLDAP* , but you can put it anywhere, for example in *C:\xampp\OpenLDAP*
- It displays the settings for SQL Server (which we're not going to use!) - click *Next*>

MSSQL Database Default Values	
Database Server name:	localhost
Database Port number:	1433
Test Database name:	TestLDAP
Test User name:	EUTestUser
LDAP Default Values	
LDAP Server name:	localhost
LDAP Port numbers:	389, 636
Monitor enabled:	Yes
SSL enabled:	Yes
CRL enabled:	Yes
Default SASL Mechanism	GSS API

- Click *Finish*

Configure the LDAP Database

Start XAMPP's MySQL server. Open the *openldap.sql* file and change the password for the user *openldap* from "Passw0rd" in the following line:

```
CREATE USER 'openldap'@'localhost' IDENTIFIED BY 'Passw0rd';
```

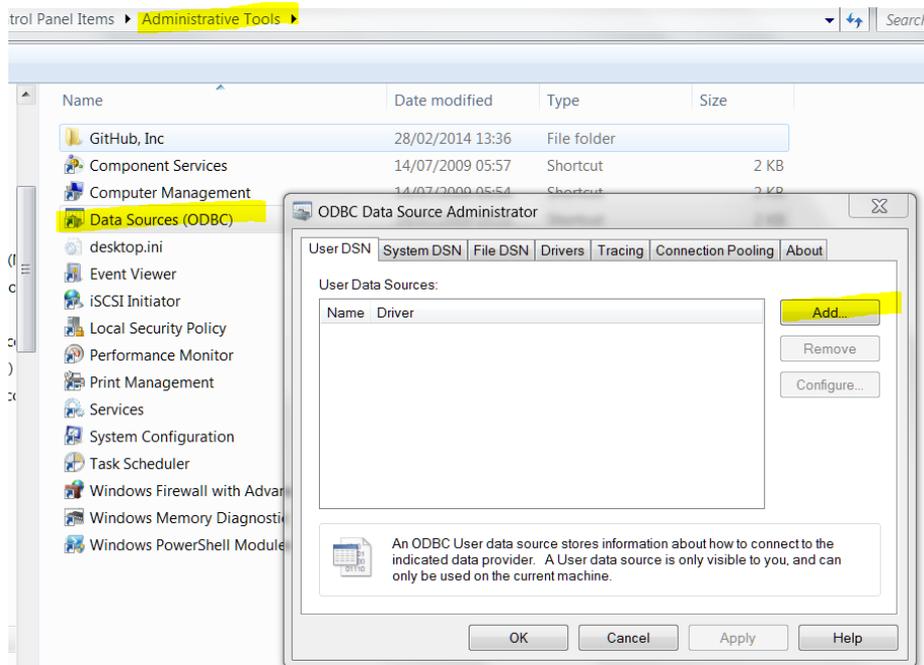
Start MySQL from the command line:

```
C:\xampp\mysql\bin\mysql -u root -p
You'll be asked to provide your password ...
source openldap.sql
It'll display a stream of information of what it's doing
exit
```

Install the ODBC driver

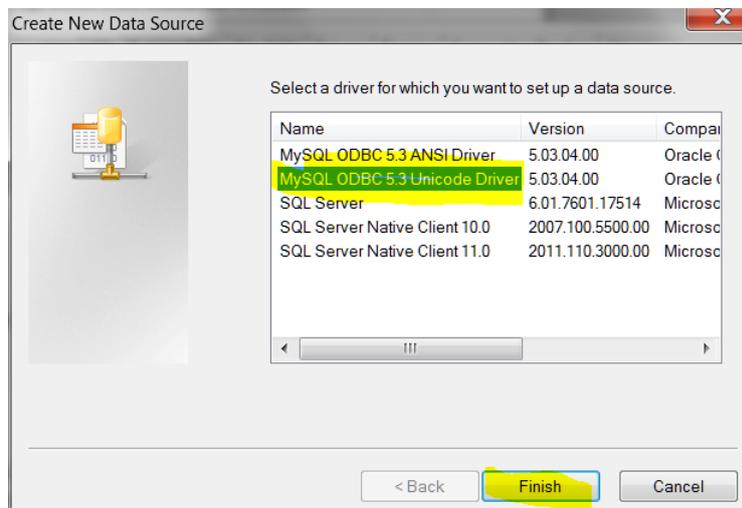
Download and install the MySQL ODBC driver from <http://dev.mysql.com/downloads/connector/odbc/>

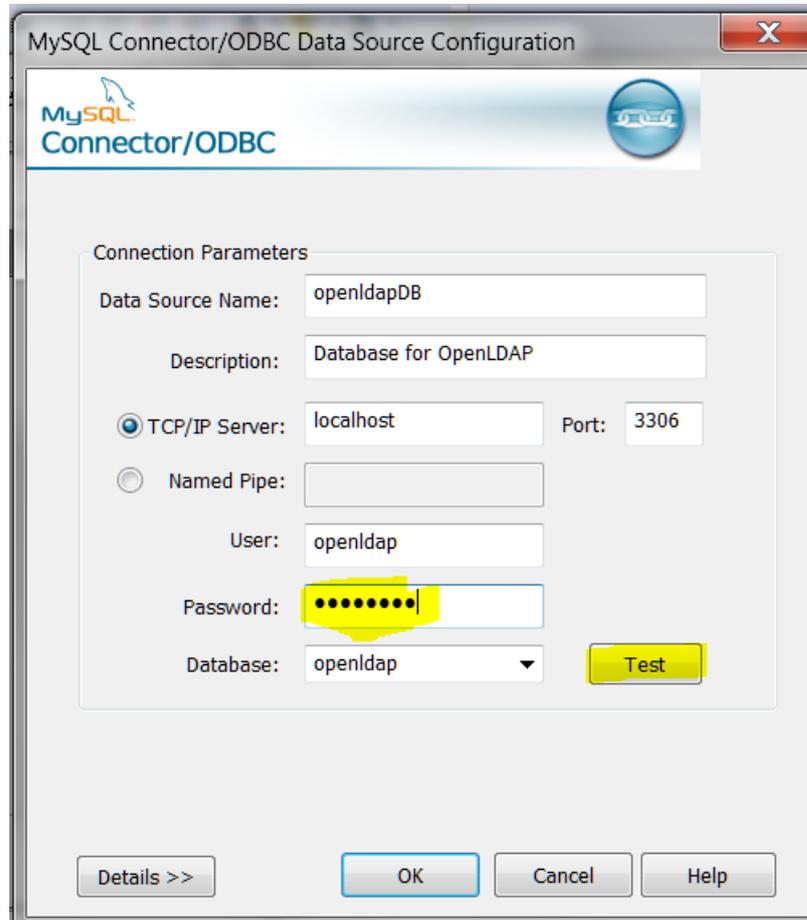
After installing the driver, you have to tell it how to connect to your database. Start XAMPP's MySQL server from the XAMPP Control Panel. Next open Windows *Control Panel*, select *Administrative Tools* and click on *Data Sources (ODBC)*:



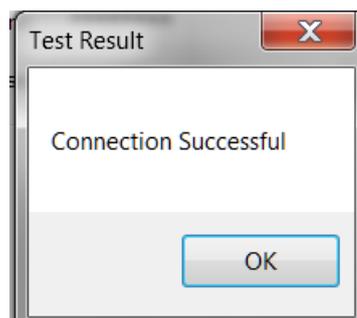
Click on the *Add* button to create the connection and select *MySQL ODBC 5.3 Unicode Driver*:

The details form is now displayed – fill in the form, using the password you changed in the *openldap.sql* file:





Click on the *Test* button and it should display:



Click *OK* and then click *OK* and *OK* and *OK* to exit.

Update `<ODBC Dir>\etc\odbc.ini` to contain the following:

```
[ODBC Data Sources]
openldapDB = MySQL Connection

[openldapDB]
Description = OpenLDAP database
Trace       = Off
TraceFile   = stderr
Driver      = MySQL
SERVER     = localhost
USER       = openldap
PASSWORD    = YourPassword
PORT       = 3306
DATABASE    = openldap
```

And change `<ODBC Dir>\etc\odbcinst.ini` to contain the following:

```
[MySQL]
Description=MySQL ODBC 3.51 Driver
Driver=..\bin\libmyodbc3.dll
```

```

Setup=..\bin\libmyodbc3S.dll
UsageCount=1

[ODBC]
Trace=Yes
TraceFile=..\var\log\odbc-trace.log
ForceTrace=Yes
Debug=Yes
Pooling=No

```

Now change the <ODBC Dir>\etc\openldap\slapd.conf to include the information about your system, in particular changing the parts in red below

```

# MySQL Database
backend          sql
database         sql
suffix           "dc=johndoe,dc=com"
rootdn           "cn=root,dc=johndoe,dc=com"
rootpw           Passw0rd
dbname           openldap
dbuser           openldap
dbpasswd         Passw0rd
insentry_stmt    "INSERT INTO ldap_entries (dn,oc_map_id,parent,keyval) VALUES
(?,?,?,?)"
subtree_cond     "ldap_entries.dn LIKE CONCAT('%',?)"
upper_func       "upper"
concat_pattern   "?+?"
has_ldapinfo_dn_ru  no
check_schema     yes

```

Wrap up

At this point, your LDAP should be all configured and working. You can test it by starting the service from the menu:



It will open a command window and will just sit there. If it hits an error, for example if you haven't started the MySQL server, it will exit with an error message.