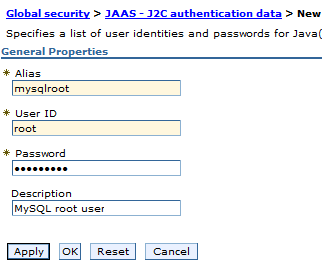
Creating a data source involves the following processes:

1. [Creating a JAAS J2C Authentication](https://docs.kony.com/6_5/konylibrary/sync/kmf_sync_installation_windowsmanual_websphere/Content/Creating_Datasource_for_SyncConsole_Schema__MySQL_.htm#Creating__JAAS_J2C_Authentication)
2. [Creating a JDBC Provider](https://docs.kony.com/6_5/konylibrary/sync/kmf_sync_installation_windowsmanual_websphere/Content/Creating_Datasource_for_SyncConsole_Schema__MySQL_.htm#Creating___JDBC_Provider)
3. [Creating a Data Source](https://docs.kony.com/6_5/konylibrary/sync/kmf_sync_installation_windowsmanual_websphere/Content/Creating_Datasource_for_SyncConsole_Schema__MySQL_.htm#Creating_Data_source)
4. [Setting Custom Properties of Data Source](https://docs.kony.com/6_5/konylibrary/sync/kmf_sync_installation_windowsmanual_websphere/Content/Creating_Datasource_for_SyncConsole_Schema__MySQL_.htm#Setting_Custom_Properties_of_Data_Source)

## Creating a JAAS J2C Authentication

**To create a JAAS J2C authentication, follow these steps:**

1. Go to **WebSphere Administration** Console > **Security** > **Global Security**.
2. Expand **Java Authentication** and **Authorization Service** > click **J2C authentication data**> click **New**.
3. Provide your MySQL database user details shown below:



You must enter your MySQL database alias, user name and password in **Alias**, **User ID** and **Password**.

1. Click **OK**.

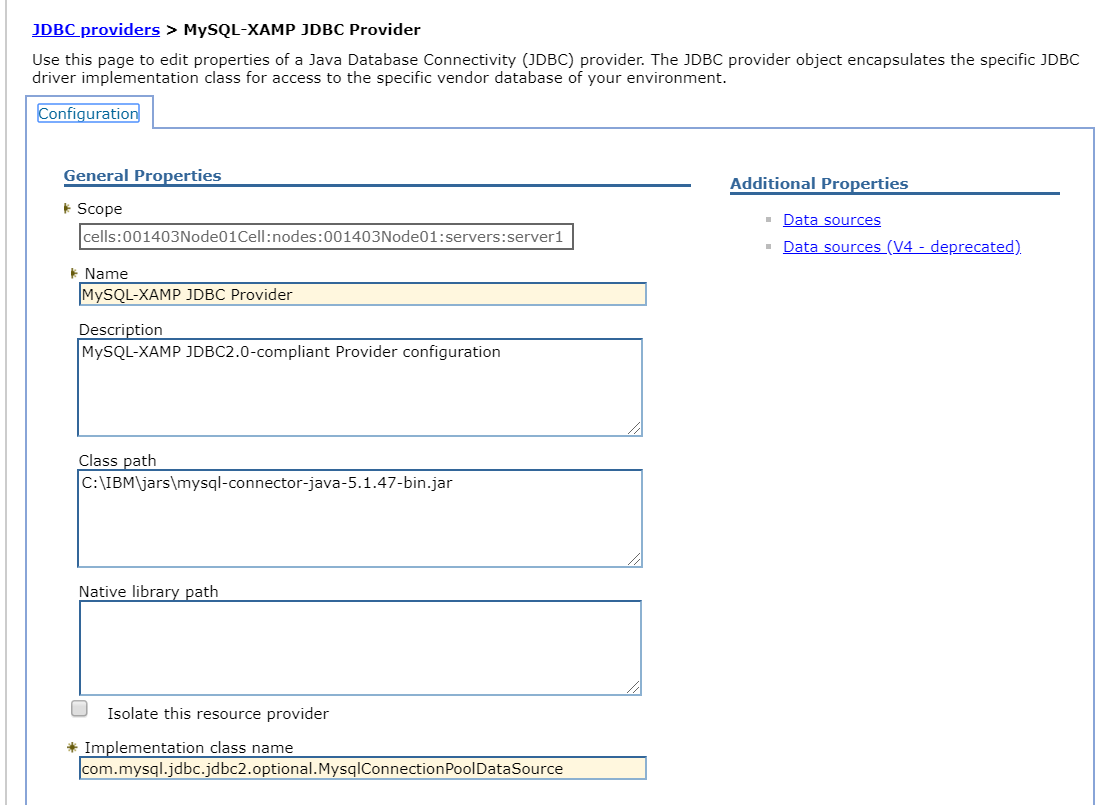
A screen appears to save the master configuration.

1. Click **Save**.

## Creating a JDBC Provider

**To create a JDBC provider, follow these steps:**

1. Go to **Resources** > **JDBC**, and click the **JDBC Provider**.
2. Select your server scope. The sope name may appear as **Node=XXXXNode01**,**Server=server1**.
3. Click **New**.
4. Create a JDBC provider with name *MySQL JDBC Provider*.
5. Set *User defined* as **Database type**.
6. Download MySQL connector j jar & provide class path : C:\IBM\jars\mysql-connector-java-5.1.47-bin.jar
7. Set *com.mysql.jdbc.jdbc2.optional.MysqlConnectionPoolDataSource*as **Implementation class name**.



1. Click **Next**.
2. Set Database class path to the location of MySQL JDBC connector jar file.

1. Click **Next** and review your inputs.
2. Click **Finish**.

## Creating a Data Source

**To create a Data source, follow these steps:**

1. Go to **Resources** > **JDBC**, and click **Data sources**.
2. Select you server Scope. The scope name may appear as **Node=XXXXNode01**,**Server=server1**.
3. Click **New**.
4. Provide *ConsoleDBDS* as **Datasource Name**.
5. Provide *jdbc/ConsoleDB* as **JNDI Name** (you must configure the same JNDI name in the syncconsole.properties file).
6. Click **Next**.
7. Select an existing JDBC provider, for example, *MySQL JDBC Provider* (created in [Creating a JDBC Provider](https://docs.kony.com/6_5/konylibrary/sync/kmf_sync_installation_windowsmanual_websphere/Content/Creating_Datasource_for_SyncConsole_Schema__MySQL_.htm#Creating___JDBC_Provider)).
8. Click **Next**.
9. Choose the data store helper class name. Retain the default values.
10. Click **Next**.
11. Setup security aliases shown below, choose already created JAAS – J2C Authentication Data here:

**Component-managed authentication alias**: *XXXNode01/mysqlroot*  
**Mapping configuration alias**: *DefaultPrincipalMapping*  
**Container-managed authentication alias**: *XXXNode01/mysqlroot.*

1. Click **Next**, review changes, and then click **Finish**.

## Setting Custom Properties of Data Source

For user defined data sources, you must provide database details (Server Name, Port, Database Name, User and Password) under custom properties of a data source.

**To set the custom properties of a data source, follow these steps:**

1. Click **MySQL Data source** to open it.
2. Click **Custom Properties** under **Additional Properties** section.
3. Click **New** and set the following properties. If Customer property already exists with the below names, edit them and provide values.
4. serverName = localhost (the host name or IP address of the MySQL server)
5. port = 3306 (MySQL database port)
6. databaseName = syncconsole (the name of the syncconsole database)
7. user = root (the user name of the MySQL server)

password = rootpassword (the password associated with the user name)

***Note:***You can use the URL property to specify complete JDBC URL of syncconsole database shown below instead of above all properties:

URL = jdbc:mysql://localhost:3306/syncconsole?user=root&password=rootpassword

1. Restart the WebSphere application server for the changes to take effect.

## JDBC Example

**public** **class** DBConnection {

**public** **static** Connection getConnection() {

Connection con =**null**;

**try** {

Context ctx = **new** InitialContext();

DataSource ds = (DataSource) ctx.lookup("jdbc/userdb");

con = ds.getConnection("root", "root");

}**catch** (Exception e) {

// **TODO**: handle exception

e.printStackTrace();

}

**return** con;

}

}

<h2>Connection Check</h2>

<%

Connection con = DBConnection.getConnection();

**if** (con != **null**) {

out.write("<h1>Connected....</h1>");

**try** {

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery("select \* from user");

**while** (rs.next())

out.write("<br/>" + rs.getInt(1) + " " + rs.getString(2) + " " + rs.getString(3));

} **catch** (Exception e) {

e.printStackTrace();

}

} **else** {

out.write("<h1>Failed....</h1>");

}

%>

