

## Configuring a DataSource

DataSources allow services and filters in XMS to use a named link to a particular datasource. The DataSource allows you to reference all the vendor specific connection settings, the driver, username, and password by using a simple name.

Because XMS Mail Server is built using java, database connections are handled through [Java DataBase Connectivity or JDBC](#) which means you can connect almost any database to XMS as a datasource. All you need is a JDBC driver (a .jar or .zip file that you will put in the plugin's directory).

### Finding a JDBC Driver for your Database Server

All major Database Vendors provide a JDBC driver for their databases, even Microsoft.

There are several third party companies that provide commercial JDBC drivers, typically going with your database vendor's driver is the best bet, but in some cases you can get better performance or features out of third party drivers. Additionally there are also open source drivers for many databases.

You can go here to find a [list of common jdbc drivers](#)

If still have not found a JDBC driver for your database look at [Sun's JDBC Driver Finder](#).

### JDBC Driver Class Names

The JDBC Class name is a fully qualified java class name for the main database driver class. You can find this in your JDBC Driver's documentation. The driver class name typically starts with a `com.`, `net.` or `org.` followed by the company domain, for example the JDBC driver class from `mysql.com` is called `com.mysql.jdbc.Driver`.

### JDBC URL's

JDBC URL's point to a specific database on a specified database server. There is no standard for JDBC url's every JDBC driver uses a slightly different syntax. You can see [this page](#) for some examples.

A JDBC URL for a MySQL database using the `com.mysql.jdbc.Driver` direct from MySQL might look like this: `jdbc:mysql://127.0.0.1/databaseName`

A JDBC URL for a Microsoft SQL Server database using the open source [JTDS driver](#) (driver class: `net.sourceforge.jtds.jdbc.Driver`) might look like this:  
`jdbc:jtds:sqlserver://127.0.0.1/databaseName`

A JDBC URL for a PostgreSQL db using the `org.postgresql.Driver` direct from PostgreSQL might look like this: `jdbc:postgresql://127.0.0.1/databaseName`

Please consult your JDBC Driver documentation for more information about obtaining the JDBC url

Most drivers allow you to pass connection properties in the url as well, see the driver documentation for more info on that.

## Installing the JDBC Driver

In order for XMS to be able to find the JDBC driver class for your database, it must be within XMS's java classpath.

Download or obtain the driver files from your vendor, the jdbc driver is typically contained within a file with `.jar` as the extension. To install the driver, put the `.jar` file inside your `plugins` directory in the root directory of your XMS installation. During startup your driver will be automatically added to the java classpath, and thus installed as a JDBC driver.

## Adding a DataSource to XMS in config.xml

Once you have installed your driver, found out the JDBC driver class name, and the JDBC url you can configure a datasource in XMS to be used by services and filters in XMS email server.

You can setup as many datasources as you like, but they all must be contained within on `DataSourceService`. The XMS Server datasource service is called [xms.dataservices.XMSDataSourceService](#). Inside the `service` tag for the `xms.dataservices.XMSDataSourceService` you can have multiple `datasource` tags. Here's an example connecting to a Microsoft SQL Server database using the jTDS driver for SQL Server:

```
<service class="xms.dataservices.XMSDataSourceService">
  <datasource name="myDataSource"
    jdbcdriver="net.sourceforge.jtds.jdbc.Driver"
    jdbcurl="jdbc:jtds:sqlserver://127.0.0.1/myDatabase"
    username="username"
    password="password" />
</service>
```

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[Prev](#)

Virus Scanning Email with Clam  
AntiVirus

[Up](#)

[Home](#)

[Next](#)

Part III. Configuration Reference

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