


# Configuring a MySQL datasource

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This article shows you how to configure a mysql datasource in Geronimo. Geronimo is embedded with mysql resource adapters supporting both local and XA transactions, you need to install mysql JDBC drivers by yourself as instructed.

There are two ways to configure a mysql datasource:

- [#Creating a datasource and deploying it as a standalone JEE connector module](#)
- [#Embedding a datasource definition in an application deployment plan](#)

## Creating a datasource and deploying it as a standalone JEE connector module

1. Refer to the attachment [sample-mysql-xa-ds-plan-standalone.xml](#) to create a standalone JEE connector deployment plan
2. Install the mysql jdbc driver to geronimo repository via the administrative console, and ensure its Module ID is the same as the defined one in the sample plan. In this example, the Module ID of mysql JDBC driver is `mysql/mysql-connector-java/5.1.7/jar`.
3. Use [command line](#) to deploy it. Here is the sample command for mysql xa datasource:

```
<geronimo_home>/bin/deploy.sh -u system -p manager deploy  
<GERONIMO_HOME>/repository/org/tranql/tranql-connector-mysql-xa/1.2/tranql-connector-mysql-xa-1.2.rar  
sample-mysql-xa-ds-plan-standalone.xml
```

where `<geronimo_home>` is the installation directory of Geronimo.

4. Then you will be able to use the datasource via its jndi name `java:comp/env/jdbc/mysqlxads`.

## Embedding a datasource definition in an application deployment plan

1. Refer to the attachment [sample-mysql-xa-ds-plan-embeded.xml](#) to create an application deployment plan, replace web module and ejb module according to your application.
2. Install the mysql jdbc driver to geronimo repository via the administrative console, and ensure its Module ID is the same as the defined one in the sample plan. In this example, the Module ID of mysql JDBC driver is `mysql/mysql-connector-java/5.1.7/jar`.
3. Use command line or administrative console to [deploy](#) your application with the plan. For example, the command line as follows:

```
<geronimo_home>/bin/deploy.sh -u system -p manager deploy yourapp.ear sample-mysql-xa-ds-plan-embeded.xml
```

where `<geronimo_home>` is the installation directory of Geronimo.

4. Then you will be able to use the datasource via its jndi name `java:comp/env/jdbc/mysqlxads`

The transaction configuration element is something like:

```
<connectionmanager>  
  <xa-transaction>  
    <transaction-caching/>  
  </xa-transaction>  
  ...  
</connectionmanager>
```

And for local transaction:

```
<connectionmanager>  
  <local-transaction/>  
  ...  
</connectionmanager>
```