

ResourceLoader13

Resource Loader

The Resource Loader is a facility that allows easy configuration and management of resources. Pools configured via the Resource Loader will be created automatically during the transaction manager's startup and will be closed during its shutdown.

It consists of an extra layer above the JDBC and JMS pools which configures them via a properties file. It is not mandatory to use it but sometimes it is better than manually creating resource pools. Another good example of Resource Loader usage is when BTM is embedded in a servlet container which configuration file cannot easily be extended, like [Tomcat](#) for instance.

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Enabling the Resource Loader

You can enable it by setting the `bitronix.tm.resource.configuration` property in the [configuration file](#) or by calling `setResourceConfigurationFilename()` on the [Configuration](#) object.

This property must contain a path to a properties file that will be loaded by the Resource Loader to create pools. Its default value is `null` which means the Resource Loader is disabled and resources should be manually created via the API.

Configuring a JDBC pool

You can configure a JDBC connection pool that wraps the driver's `javax.sql.XADataSource` implementation and presents it to the user as a `javax.sql.DataSource`, much like with the API.

To configure a JDBC pool, create a set of properties:

```
- (A) .(B). (C) -  
resource.ds1.className=oracle.jdbc.xa.client  
.OracleXADataSource  
resource.ds1.uniqueName=oracle  
resource.ds1.maxPoolSize=5  
resource.ds1.driverProperties.user=users1  
resource.ds1.driverProperties.password=users  
1  
resource.ds1.driverProperties.URL=jdbc:oracl  
e:thin:@localhost:1521:XE
```

(A) is constant and never changes.

(B) is an arbitrary name used to group a set of properties together.

(C) is a javabean property of [bitronix.tm.resource.jdbc.PoolingDataSource](#).

Refer to the `PoolingDataSource` javadoc or to the [JDBC configuration](#) page to know what properties can be set.

Configuring a JMS pool

You can configure a JMS connection pool that wraps JMS server's `javax.jms.XAConnectionFactory` implementation and presents it to the user as a `javax.jms.ConnectionFactory`, much like with the API or for JDBC.

To configure a JMS pool, create a set of properties:

```
- (A) .(B). (C) -  
resource.mq1.className=org.activemq.ActiveMQ  
XAConnectionFactory  
resource.mq1.uniqueName=activemq  
  
resource.mq1.maxPoolSize=2  
  
resource.mq1.driverProperties.userName=defaultUser  
resource.mq1.driverProperties.password=defaultPassword  
resource.mq1.driverProperties.brokerURL=tcp://localhost:61616
```

- (A) is constant and never changes.
- (B) is an arbitrary name used to group a set of properties together.
- (C) is a javabean property of [bitronix.tm.resource.jms.PoolingConnectionFactory](#).

Refer to the `PoolingConnectionFactory` javadoc or to the [JMS configuration](#) page to know what properties can be set.

Ant-like references

Unlike the transaction manager, the Resource Loader does not support ant-like references (`${...}`) in its configuration file.

JNDI binding

All resources created by the Resource Loader are bound to BTM's JNDI provider, just like the ones created by direct use of the API. Have a look at the [Embedded JNDI provider](#) page for more details.