

IBM TRIRIGA Application Platform  
Version 3 Release 5.1

*Securing Passwords in `tririga-ds.xml`*



**Note**

Before using this information and the product it supports, read the information in “[Notices](#)” on page 5.

This edition applies to version 3, release 5, modification 1 of IBM® TRIRIGA® Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

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# About This Guide

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## Conventions

This document uses the following conventions to ensure that it is as easy to read and understand as possible.



**Note** - A Note provides important information that you should know in addition to the standard details. Often, notes are used to make you aware of the results of actions.



**Tip** - A Tip adds insightful information that may help you use the system better.



**Attention** - An Attention notice indicates the possibility of damage to a program, device, system, or data.

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# 1. Securing Passwords in `tririga-ds.xml`

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The as-delivered `tririga-ds.xml` has a clear text user name and password. If security requirements dictate that no passwords stored on the file system can be stored in clear text, the following procedure can be used to encrypt the password.

If `tririga-ds.xml` is encrypted, you cannot edit connection information from the Administrator Console.

The information in this document can be copied, which should make following this procedure less subject to typographical errors.



**Attention** - You will need to re-encrypt passwords (run through these instructions) each time you upgrade to a new version of the IBM TRIRIGA® Application Platform.

## Procedure

Follow the procedure below to secure passwords in `tririga-ds.xml`.

### To Secure Passwords in `tririga-ds.xml`

#### Step 1 Confirm Java version.

Ensure the same version of Java that executes the JBoss process is in your path. This can be checked by running the following command (on Windows or UNIX/Linux):

```
java -version
```

If the version is different from the one that runs with JBoss, add the correct `java/bin` directory to the system path.

#### Step 2 Stop JBoss.

#### Step 3 Generate the encoded password.

Open a command prompt or shell window. Navigate to the `tririga/jboss-5.1.0` home directory. Invoke the secure identity login module with the following command (execute this all on one line):

UNIX/Linux:

```
java -cp client/jboss-logging-spi.jar:common/lib/jbosssx.jar  
org.jboss.resource.security.SecureIdentityLoginModule your-password
```

Windows:

## To Secure Passwords in `tririga-ds.xml`

```
java -cp client\jboss-logging-spi.jar;common\lib\jbossx.jar
org.jboss.resource.security.SecurityIdentityLoginModule your-password
```

A result like the following line is printed to the screen:

```
Encoded password: 5dfc52b51bd35553df8592078de921bc
```

**Step 4** Remove the clear text password from the `tririga-ds.xml` and add the user mapping information.

Edit the `tririga-ds.xml` file in the `tririga/jboss-5.1.0/server/all/deploy` directory. Remove the `user-name` and `password` parameter lines, and add the `security-domain` parameter, as shown below.

The following lines show the text before the edit. The lines in bold will be replaced:

```
<local-tx-datasource>
  <jndi-name>jdbc/local/DataSource-TRIRIGA-data</jndi-name>
  <connection-url>jdbc:oracle:thin:@DBSVR:1521:orcl</connection-
url>
  <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>
  <user-name>tridata</user-name>
  <password>password</password>
  <min-pool-size>10</min-pool-size>
  <max-pool-size>100</max-pool-size>
  <blocking-timeout-millis>5000</blocking-timeout-millis>
  <idle-timeout-minutes>15</idle-timeout-minutes>
  <track-statements>false</track-statements>
</local-tx-datasource>
```

Replace the `user-name` and `password` entries with a `security-domain` entry:

```
<local-tx-datasource>
  <jndi-name>jdbc/local/DataSource-TRIRIGA-data</jndi-name>
  <connection-url>jdbc:oracle:thin:@DBSVR:1521:orcl</connection-
url>
  <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>
  <security-domain>EncryptDBPassword</security-domain>
  <min-pool-size>10</min-pool-size>
  <max-pool-size>100</max-pool-size>

  <blocking-timeout-millis>5000</blocking-timeout-millis>
```

## To Secure Passwords in `tririga-ds.xml`

```
<idle-timeout-minutes>15</idle-timeout-minutes>
<track-statements>false</track-statements>
</local-tx-datasource>
```

Edit the `login-config.xml` in the `tririga/jboss-5.1.0/server/all/config` directory.

At the end of the file, before the closing `</policy>` tag, add the following section and enter the clear text username and encrypted password from Step 3:

```
<policy>
  <!-- TRIRIGA Encrypted DB Username -->
  <application-policy name="EncryptDBPassword">
    <authentication>
      <login-module
        code="org.jboss.resource.security.SecureIdentityLoginModule"
        flag="required">
        <module-option
          name="username">tridata</module-option>
        <module-option
          name="password">5dfc52b51bd35553df8592078de921bc</module-
option>
        <module-option name="managedConnectionFactoryName">
          jboss.jca:name=jdbc/local/DataSource-TRIRIGA-
data,service=LocalTxCM
        </module-option>
      </login-module>
    </authentication>
  </application-policy>
</policy>
```

The above configuration should be within the active policy section.



**Note** - The very last line of the file should be `</policy>`.

**Step 5** Restart JBoss and test.

Ensure records can be viewed and new records can be created.



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