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The [configuration of an application](#) is usually separated from the source code and stored in the configuration file `config.xml`. The file is a standard XML file.

If the database access data/credentials are set in clear text, both username and password can be read out. Although this has the advantage that a change of the file is possible at any time, it also has the disadvantage of the data being easily readable.

To prevent readability, the `XmlWorker` supports transparent encryption. You can work with plain-text files without any care during the development phase and switch to encrypted mode when installing on the production system. You do not need to change your source code.

To encrypt a configuration file, the following source code can be used:

```
XmlWorker xmw = new XmlWorker();
xmw.setAutomaticDecrypt(true);
xmw.setEncrypted("/application/securitymanager", true);
xmw.setEncrypted("/application/lifecycle", true);
xmw.setEncrypted("/application/datasource", true);

File fiConfig = new File(sFile);

XmlNode xmn = xmw.read(fiConfig);
xmw.write(fiConfig, xmn);
```

Simply set XML nodes to encrypt. All non-essential parts of the file can still remain in plain text and the important data is protected.

Example

A very easy-to-read configuration:

[config.xml](#)

```
<?xml version="1.0" encoding="UTF-8"?>

<application>
  <securitymanager>
    <class>com.sibvisions.rad.server.security.DBSecurityManager</class>
    <database>
      <driver>org.hsqldb.jdbcDriver</driver>
      <url>jdbc:hsqldb:hsql://localhost/demodb;ifexists=true</url>
      <username>sa</username>
      <password></password>
    </database>
  </securitymanager>

  <!-- optional database configuration -->
  <databaseobjects>
    <yesvalue>Y</yesvalue>
    <NUSERS>TBL_USERS</NUSERS>
    <NUSERS_CHANGE_PASSWORD>CHANGE_PASSWORD</NUSERS_CHANGE_PASSWORD>
```

```

    <NUSERS_VALID_FROM>COL_VALID_FROM</NUSERS_VALID_FROM>
    <NUSERS_VALID_TO>COL_VALID_TO</NUSERS_VALID_TO>
    <NUSERS_ACTIVE>COL_ACTIVE</NUSERS_ACTIVE>
  </databaseobjects>

  <!-- predefined life-cycle object names -->
  <lifecycle>
    <mastersession>democopy.Session</mastersession>
    <application>democopy.Application</application>
  </lifecycle>

</application>

```

And now protected:

config.xml

```

<?xml version="1.0" encoding="UTF-8"?>

<application>
  <securitymanager
    encrypted="true">1f8b080000000000000005d90310ec2300c45774ec109e21d4206c4
    cac4099cc4b4416903765ae0f6244d111293fdfdac2f6b213771c8ef0147ec88cd66b
    bd52ea28871695012ec1c24a45114a357423c13ab2fa34ec7cbda9e1baea1b1f58ac78c
    1685aaa89243614de24ef5f288deaa9bb7eeb44c35ac6e5b9d389a6aeedae2527600313
    98c7d920c9e86e4ed3e5ce91524cb21f3441a2ab61e2841471cc80896f15734ef5ef23d
    137b5842c22fa586ff5f7c00b0e53e381d010000</securitymanager>
    <!-- optional database configuration -->
    <databaseobjects>
      <yesvalue>Y</yesvalue>
      <NUSERS>TBL_USERS</NUSERS>
      <NUSERS_CHANGE_PASSWORD>CHANGE_PASSWORD</NUSERS_CHANGE_PASSWORD>
      <NUSERS_VALID_FROM>COL_VALID_FROM</NUSERS_VALID_FROM>
      <NUSERS_VALID_TO>COL_VALID_TO</NUSERS_VALID_TO>
      <NUSERS_ACTIVE>COL_ACTIVE</NUSERS_ACTIVE>
    </databaseobjects>
    <!-- predefined life-cycle object names -->
    <lifecycle
      encrypted="true">1f8b08000000000000000b3c9c94c4b4dae4cce49b5e35250b0c94d
      2c2e492d2a4e2d2ececccfb34b49cdcd4fce2fa8d40b8608d8e8a3ca8374241614e4642
      62796a0a8774408dae823abe0b2d1475808003864e6777c000000</lifecycle>
    </lifecycle>
  </application>

```

From:

<https://doc.sibvisions.com/> - **Documentation**

Permanent link:

https://doc.sibvisions.com/jvx/server/security/config_encrypt

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