

Secure the JBOSS (JMX) web console invoker in Digttool

The JBOSS deploy path can be located on the Digttool server

At the console type:

```
>jb_deploy
```

This will change to the deploy directory. Eg.:

```
/exlibris/dtl/j3_1/digttool/home/system/thirdparty/openserver/server/default/deploy
```

You will need to adjust this path if it differs from these instructions.

Step 1 - Remove http-invoker.sar

Remove http-invoker.sar/ from the deploy path:

Step 2 - Download this file from the Digttool server to your PC:

```
/exlibris/dtl/j3_1/digttool/home/system/thirdparty/openserver/server/default/deploy/management/web-console.war
```

Extract the following two files from web-console.war (*using Total Commander for example or other archive extractor*) and edit as follows:

WEB-INF/web.xml

Uncomment the security-constraint block and add a <login-config> block after the end of the <security-constraint> block (*if not already present*).

```
<security-constraint>
  <web-resource-collection>
    <web-resource-name>HtmlAdaptor</web-resource-name>
    <description>An example security config that only allows users with the
role JBossAdmin to access the HTML JMX console web application
    </description>
    <url-pattern>/*</url-pattern>
    <http-method>GET</http-method>
    <http-method>POST</http-method>
  </web-resource-collection>
  <auth-constraint>
    <role-name>JBossAdmin</role-name>
  </auth-constraint>
</security-constraint>

<login-config>
  <auth-method>BASIC</auth-method>
  <realm-name>JBoss WEB Console</realm-name>
</login-config>
```

(Find example of this file in secure_web-invoker.zip)

WEB-INF/jboss-web.xml

Uncomment the security-domain block. Make sure the JNDI name maps to the realm name (e.g. JMXConsole)

```
<security-domain>java:/jaas/web-console</security-domain>
```

(Find example of this file in secure_web-invoker.zip)

Replace the files in web-console.war on the Digttool server with the edited versions.

Step 3 - Copy directory:

In `secure_web-invoker.zip` you will find a directory “props”.

Copy it to this path on the Digttool server:

```
/exlibris/dtl/j3_1/digitool/home/system/thirdparty/openserver/server/default/conf/props
```

Step 4 - Edit this file:

```
/exlibris/dtl/j3_1/digitool/home/system/thirdparty/openserver/server/default/conf/login-config.xml
```

Change the path in these sections to the versions in the new “props” directory by adding “props/” to the front of the path:

```
<application-policy name = "jmx-console">
  <authentication>
    <login-module
      code="org.jboss.security.auth.spi.UsersRolesLoginModule" flag =
        "required">
      <module-option name="usersProperties">
        props/jmx-console-users.properties</module-option>
      <module-option name="rolesProperties">
        props/web-console-roles.properties</module-option>
    </login-module>
  </authentication>
</application-policy>

<application-policy name = "web-console">
  <authentication>
    <login-module
      code="org.jboss.security.auth.spi.UsersRolesLoginModule" flag =
        "required">
      <module-option name="usersProperties">
        props/web-console-users.properties</module-option>
      <module-option name="rolesProperties">
        props/web-console-roles.properties</module-option>
    </login-module>
  </authentication>
</application-policy>
```

(Find example of this file in `secure_web-invoker.zip`)

Step 5 – Stop and start JBOSS

```
$jdtlh_bin/jboss_shutdown.sh
```

```
$jdtlh_bin/jboss_startup.sh
```