# JBOSS SECURITY: Encoding your KET STORE TRUST STORE Password

## **Problem** ## Faced the security issue in one of audit. The issue captured was that our customized JBOSS structure was having server.xml that was embedded with KET\_STORE password in PLIAN\_TEXT\_FORMAT.

#### ## Resolve Approach ##

Implemented following to resolve:

Step I: Modify above <Connector> with

```
//opt/app/jboss/server/Alnstance/deploy/jbossweb.sar/server.xml 
<Connector protocol="HTTP/1.1" SSLEnabled="true"
```

#### Step II: Add/Edit security-service.xml file

## //opt/app/jboss/server/Alnstance/deploy/security-service.xml

Step III: Generate encoded password in file keystore.password by executing command

java -cp /opt/app/current/jboss/common/lib/jbosssx.jar \org.jboss.security.plugins.FilePassword encodekeystore 19 password123 keystore.password

Note: Here 'password123' is getting encoded via FilePassword's encode method.

## **Step IV**: Add <depends> element in jboss-beans.xml

<depends>jboss.security:service=PBESecurityDomain</depends>
//opt/app/jboss/server/AInstance/deploy/jbossweb.sar/META-INF/jboss-beans.xml

**Step V**: Restart JBOSS server.

## Other Approaches:

- Encode keystore password that is xml understandable. Found @
   <a href="http://coderstoolbox.net/string/#!encoding=xml&action=encode&charset=none">http://coderstoolbox.net/string/#!encoding=xml&action=encode&charset=none</a>
   Encoded Password: &#112;&#97;&#115;&#115;&#119;&#111;&#114;&#100;&#49;&#50;&#51;
   //password123
- ⇒ Override encode() of FilePassword jboss inbuilt class with custom encode().

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## ## References ##

https://docs.jboss.org/jbosssecurity/docs/6.0/security\_guide