Enble HTTPS

Motadata Self-Sign Certification

Creating Certificate with OpenSSL

MAC and many Linux OS distributions have OpenSSL installed by default. If you don't' have one, go to OpenSSL website and get it. For windows, you can download binaries from OpenSSL binaries page. After completing the setup, create an empty directory. Use this directory to save the key and SSL certificate.

Settings in Motadata

Connect to Motadata using putty.

Enter username and password.

Create a directory in /opt/SSL.

```
root@ubuntu:~# mkdir /opt/SSL
```

Go to the SSL directory.

```
root@ubuntu:~# cd /opt/SSL
```

Run following command to generate the key. Here, we have taken name of the key file as: jcg.key. You can choose your own name of the file.

```
root@ubuntu:~# openssl genrsa -des3 -out jcg.key
```

Motadata will ask you for password. Enter a password (minimum 4 characters). Type again to confirm password.

```
Enter pass phrase for jcg.key:

Verifying - Enter pass phrase for jcg.key:
```

Run following command to create a certificate file. Here, we have taken the name of the certificate file as: jcg.crt. You can choose your own name of the file.

```
root@ubuntu:~# openssl req -new -x509 -key jcg.key -out jcg.crt
```

Enter the password you defined for the key file.

```
Enter pass phrase for jcg.key:
```

System will ask some details to fill in your certificate. These details are called distinguished names. You can leave some fields blank. If you enter '.', the field will be left blank.

You are about to be asked to enter information that will be incorporated into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter '.', the field will be left blank.

Country Name (2 letter code) [AU]:IN

State or Province Name (full name) [Some-State]:Gujrat

Locality Name (eg, city) []:Ahmedabad

Organization Name (eg, company) [Internet Widgits Pty Ltd]:Mindarray Systems

Organizational Unit Name (eg, section) []:Motadata

Common Name (e.g. server FQDN or YOUR name) []:Shubham

Email Address []:support@motadata.com

root@ubuntu:/opt/SSL#

Run the following command to convert the CRT file to PKCS12 format.

```
root@ubuntu:~# openssl pkcs12 -inkey jcg.key -in jcg.crt -export -out jcg.pkcs12
```

Enter the password you defined for the key file:

```
Enter pass phrase for jcg.key:
```

Enter a password to export the file. You can use any password (more than 4 characters). Enter once more to verify the password.

```
Enter Export Password:

Veriying - Enter Export Password:
```

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Import the PKCS12 file in the keystore of Jetty.

Run following command to copy JCG.PKCS12 file to /motadata/motadata/jetty-hightide/etc directory.

```
root@ubuntu:/opt/SSL# cp jcg.pkcs12 /motadata/motadata/jetty-hightide/etc/
```

Change permission of JCG.PKCS12 file

```
root@ubuntu:/opt/SSL# chmod 755 /motadata/motadata/jetty-hightide/etc/jcg.pkcs12
```

Delete the existing keystore file.

```
root@ubuntu:/opt/SSL# rm -rf /motadata/motadata/jetty-hightide/etc/keystore
```

Execute the keytool import command

```
root@ubuntu:/opt/SSL#  /motadata/motadata/jdk/jre/bin/keytool  -importkeystore  -srckeystore
jcg.pkcs12 -srcstoretype PKCS12 -destkeystore keystore
```

Enter a password for destination and source keystore

```
Enter destination keystore password:

Re-enter new password:

Enter source keystore password:
```

Copy the keystore to /motadata/motadata/jetty-hightide/etc/

```
root@ubuntu:/opt/SSL# cp keystore /motadata/motadata/jetty-hightide/etc
```

Change the permission of the keystore file

```
root@ubuntu:/opt/SSL# chmod 755 /motadata/motadata/jetty-hightide/etc/keystore
```

Generate an encrypted password for the password of jcg.key file

```
root@ubuntu:/opt/SSL#  /motadata/motadata/jdk/jre/bin/java  -cp  /motadata/motadata/jetty-
hightide/lib/jetty-util-9.3.5.v20151012.jar org.eclipse.jetty.util.security.Password password
```

Copy the OBF password using CTRL+Insert

```
2019-01-09 19:09:25.364:INFO::main: Logging initialized @430ms

password

OBF:1v2j1uum1xtv1zej1zer1xtn1uvk1v1v

MD5:5f4dcc3b5aa765d61d8327deb882cf99

root@ubuntu:/opt/SSL#
```

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Edit the jetty-ssl-context.xml file using following command:

```
root@ubuntu:/opt/SSL# vi /motadata/motadata/jetty-hightide/etc/jetty-ssl-context.xml
```

Replace the OBF values for keystore and save the file. Use standard linux command: 'i' to make changes in the file and `!wq!` to save the changes in the file.

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```xml
<?xml version="1.0"?>

<!DOCTYPE Configure PUBLIC "-//Jetty//Configure//EN" "http://www.eclipse.org/jetty/configure_9_3.dtd">

<!-- ============================================================= -->

<!-- SSL ContextFactory configuration                    -->

<!-- ============================================================= -->

<Configure id="sslContextFactory" class="org.eclipse.jetty.util.ssl.SslContextFactory">

  <Set name="KeyStorePath"><Property name="jetty.base" default="." />/<Property
name="jetty.sslContext.keyStorePath" deprecated="jetty.keystore" default="etc/keystore"/></Set>

  <Set name="KeyStorePassword"><Property name="jetty.sslContext.keyStorePassword"
deprecated="jetty.keystore.password" default="OBF:1v2j1uum1xtv1zej1zer1xtn1uvk1v1v"/></Set>

  <Set name="KeyStoreType"><Property name="jetty.sslContext.keyStoreType" default="JKS"/></Set>

  <Set name="KeyStoreProvider"><Property name="jetty.sslContext.keyStoreProvider"/></Set>

  <Set name="KeyManagerPassword"><Property name="jetty.sslContext.keyManagerPassword"
deprecated="jetty.keymanager.password" default="OBF:1v2j1uum1xtv1zej1zer1xtn1uvk1v1v"/></Set>

  <Set name="TrustStorePath"><Property name="jetty.base" default="." />/<Property
name="jetty.sslContext.trustStorePath" deprecated="jetty.truststore" default="etc/keystore"/></Set>

  <Set name="TrustStorePassword"><Property name="jetty.sslContext.trustStorePassword"
deprecated="jetty.truststore.password default="OBF:1v2j1uum1xtv1zej1zer1xtn1uvk1v1v"/></Set>

  <Set name="TrustStoreType"><Property name="jetty.sslContext.trustStoreType"/></Set>

  <Set name="TrustStoreProvider"><Property name="jetty.sslContext.trustStoreProvider"/></Set>

  <Set name="EndpointIdentificationAlgorithm"></Set>

  <Set name="NeedClientAuth"><Property name="jetty.sslContext.needClientAuth"
deprecated="jetty.ssl.needClientAuth" default="false"/></Set>

  <Set name="WantClientAuth"><Property name="jetty.sslContext.wantClientAuth"
deprecated="jetty.ssl.wantClientAuth" default="false"/></Set>

  <Set name="ExcludeCipherSuites">

  <Array type="String">

  <Item>SSL_RSA_WITH_DES_CBC_SHA</Item>

  <Item>SSL_DHE_RSA_WITH_DES_CBC_SHA</Item>

  <Item>SSL_DHE_DSS_WITH_DES_CBC_SHA</Item>

  <Item>SSL_RSA_EXPORT_WITH_RC4_40_MD5</Item>

  <Item>SSL_RSA_EXPORT_WITH_DES40_CBC_SHA</Item>

  <Item>SSL_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA</Item>

  <Item>SSL_DHE_DSS_EXPORT_WITH_DES40_CBC_SHA</Item>

  </Array>

  </Set>

  <Set name="useCipherSuitesOrder"><Property name="jetty.sslContext.useCipherSuitesOrder"
default="true"/></Set>

</Configure>
```

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Keep in touch

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About Motadata

Mindarray Systems Pvt. Ltd. a global IT product company, offers state of the art affordable yet powerful product suite - Motadata consisting of Network Management & Monitoring, Log & Flow Management, and IT Service Management Platforms. The platform empowers both IT administrators and CXOs to analyze, track & resolve IT operational issues by effectively monitoring various systems and devices from multiple vendors through a unified and centralized dashboard.

Motadata is industry's first IT ops solution that truly correlates the metric, flow and log events and turns them into actionable insights. Our global customers from Telecom, Government and Enterprise domain, rely on Motadata for proactively monitor their network infrastructure.

For more information, visit www.motadata.com.

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