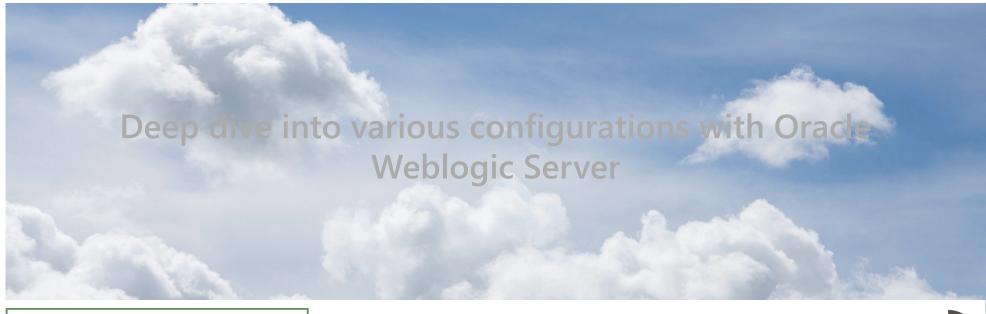


Hands-on with Oracle WebLogic Server





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August 18, 2015

Steps to create a self-signed certificate using OpenSSL

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Below are the steps to create a self-signed certificate using OpenSSL:

STEP 1:

Create a private key and public certificate using the following command:

Command: openssl req -newkey rsa:2048 -x509 -keyout cakey.pem -out cacert.pem -days 3650

In the above command:

- If you add "-nodes" then your private key will not be encrypted.
- cakey.pem is the private key
- cacert.pem is the public certificate

STEP 2:

Use the following java utility to create a JKS keystore:

Command: java utils.ImportPrivateKey -keystore identity.jks -storepass password -keyfilepass privatepassword -certfile cacert.pem -keyfile cakey.pem -alias mykey

```
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Alternatively, you can use the following commands to create a PKCS12 / JKS file :

STEP 2a:

Create a PKCS12 keystore:

Command: openssl pkcs12 -export -in cacert.pem -inkey cakey.pem -out identity.p12 -name "mykey"

In the above command:

- "-name" is the alias of the private key entry in keystore.

STEP 2b:

Now convert the PKCS12 keystore to JKS keytstore using keytool command:

Command: keytool-importkeystore-destkeystore identity.jks-deststorepass password-srckeystore identity.p12-srcstoretype PKCS12-srcstorepass password

STEP 3:

Create a trust keystore using the following command:

Command: keytool-import-file cacert.pem-keystore trust.jks-storepass password

<Additional Info>

- To view the public certificate:

openssl x509 -in cacert.pem -noout -text

- To concatenate the private key and public certificate into a pem file (which is required for many web-servers) :

cat cakey.pem cacert.pem > server.pem

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