

Oracle HTTP Server 11g R1 Configuration for FLEXCUBE  
Oracle FLEXCUBE Universal Banking  
Release 12.4.0.0.0  
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## 1. Purpose

The objective of this document is to explain the installation and configuration of Oracle HTTP Server 11g R1 (11.1.1.6.0). This includes setting up of server details, configuration of compression rules and enabling SSL.

## 2. Introduction to Oracle HTTP Server (OHS)

Oracle HTTP Server is the Web server component for Oracle Fusion Middleware. It is based on Apache web server, and includes all base Apache modules and modules developed specifically by Oracle. It provides a HTTP listener for Oracle WebLogic Server and the framework for hosting static pages, dynamic pages, and applications over the Web. Key aspects of Oracle HTTP Server are its technology, its serving of both static and dynamic content and its integration with both Oracle and non-Oracle products.

Oracle HTTP Server consists of several components that run within the same process. These components provide the extensive list of features that Oracle HTTP Server offers when handling client requests.

Following are the major components:

### 2.1 HTTP Listener

Oracle HTTP Server is based on an Apache HTTP listener to serve client requests. An HTTP server listener handles incoming requests and routes them to the appropriate processing utility.

### 2.2 Modules (mods)

Modules extend the basic functionality of Oracle HTTP Server, and support integration between Oracle HTTP Server and other Oracle Fusion Middleware components. There are modules developed specifically by Oracle for Oracle HTTP Server. Ex: mod\_wl\_ohs, mod\_plsql

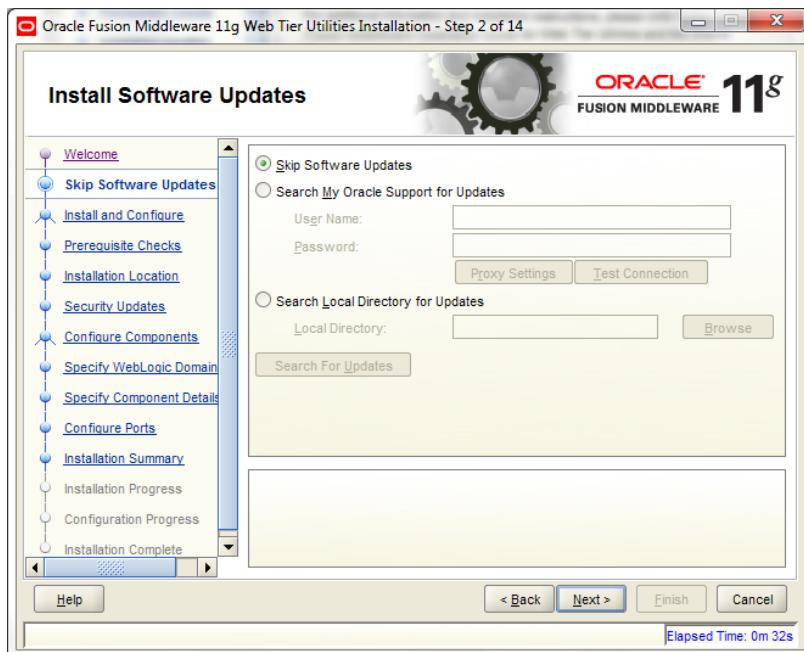
Oracle HTTP Server also includes the base Apache and third-party modules out-of-the-box. These modules are not developed by Oracle. Ex: mod\_proxy, mod\_perl

### 3. Installation of OHS 11g

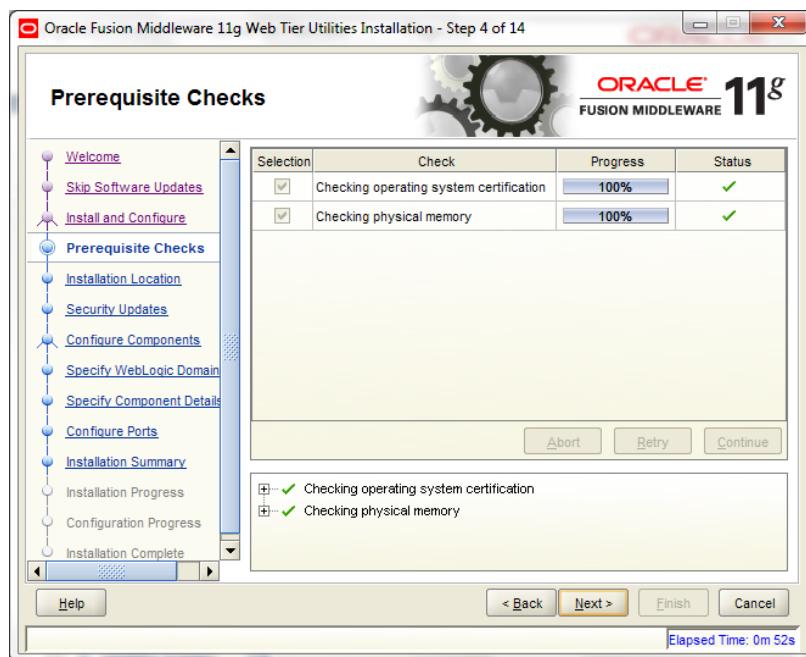
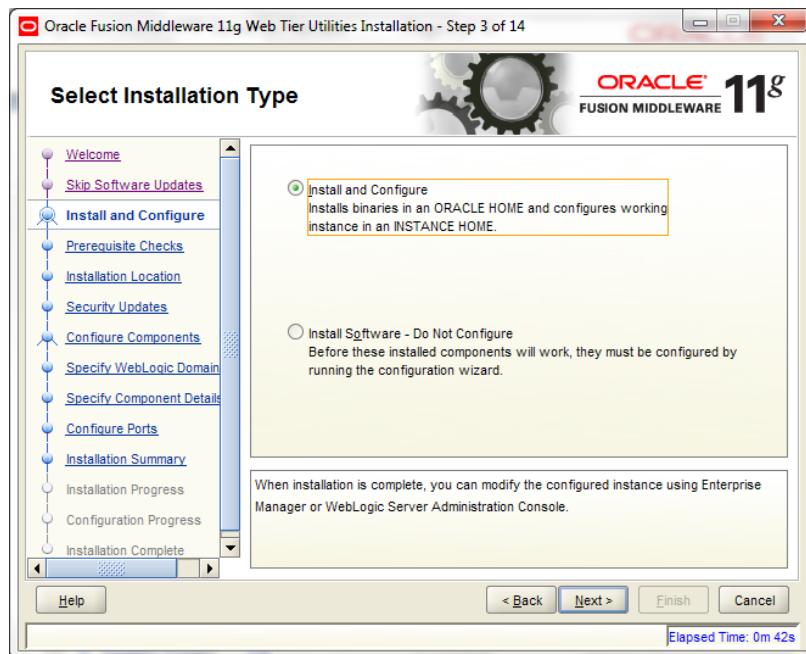
Invoke the setup exe to start the installation

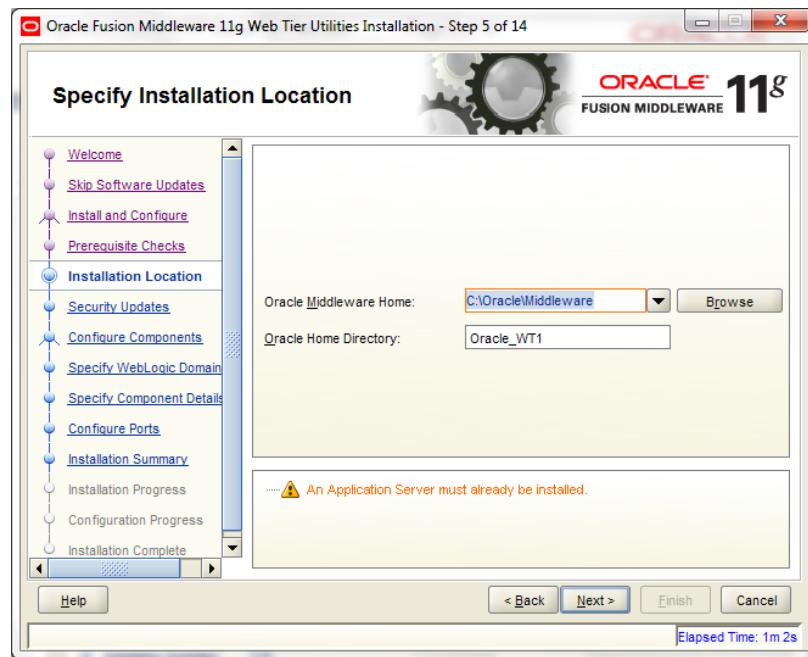


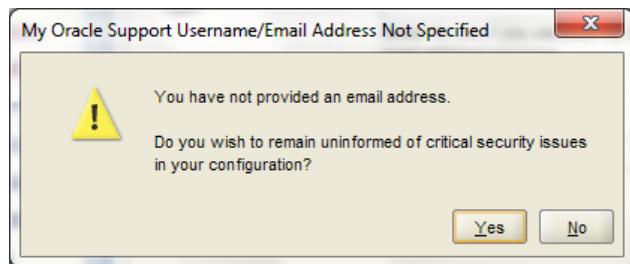
#### Select Skip Software Updates



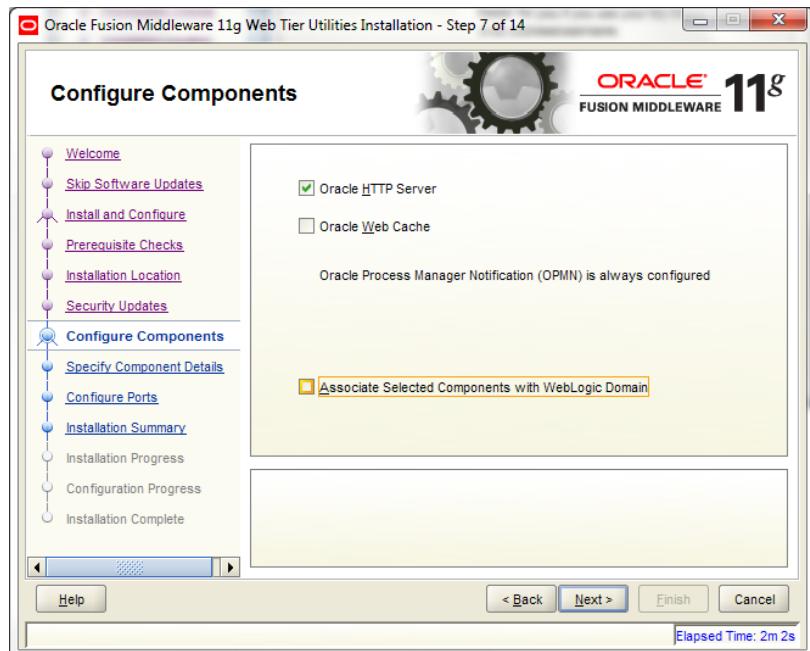
## Select Install and Configure



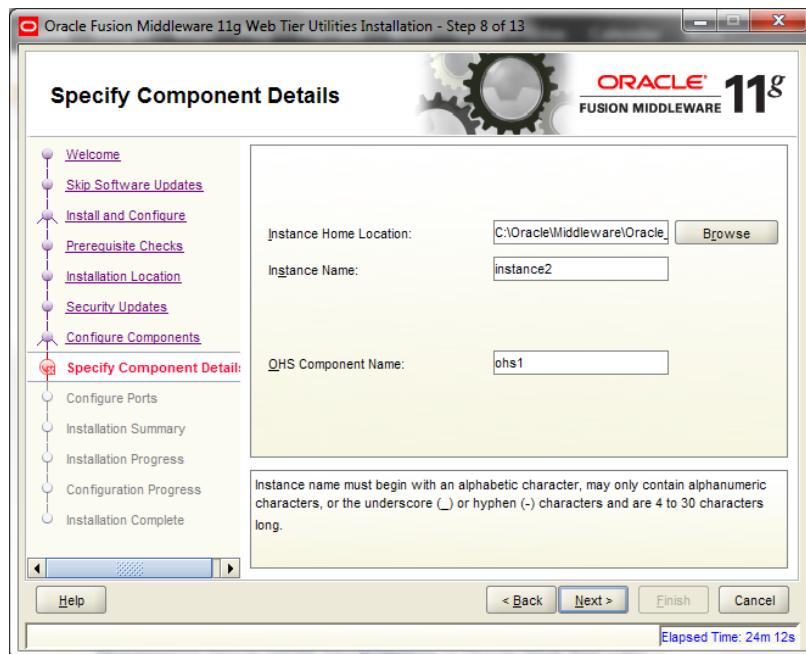


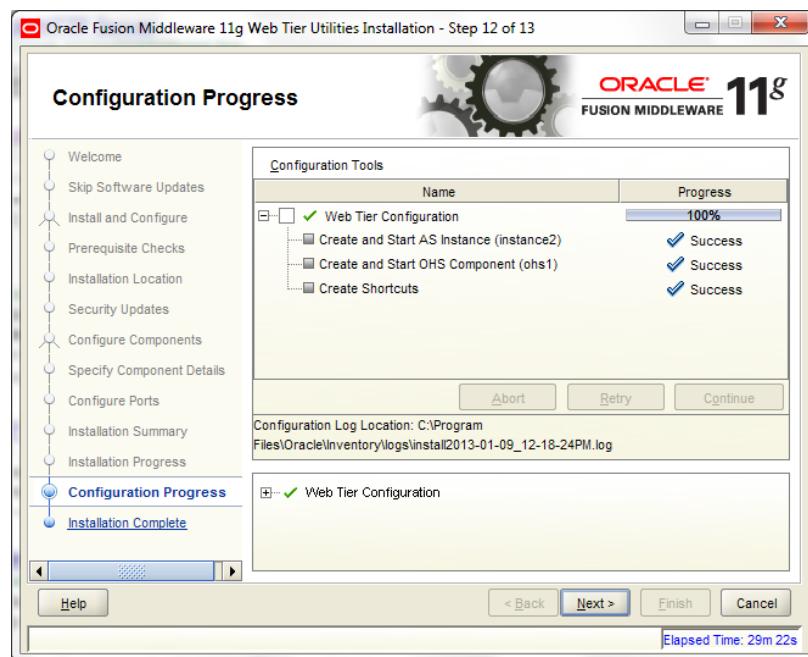
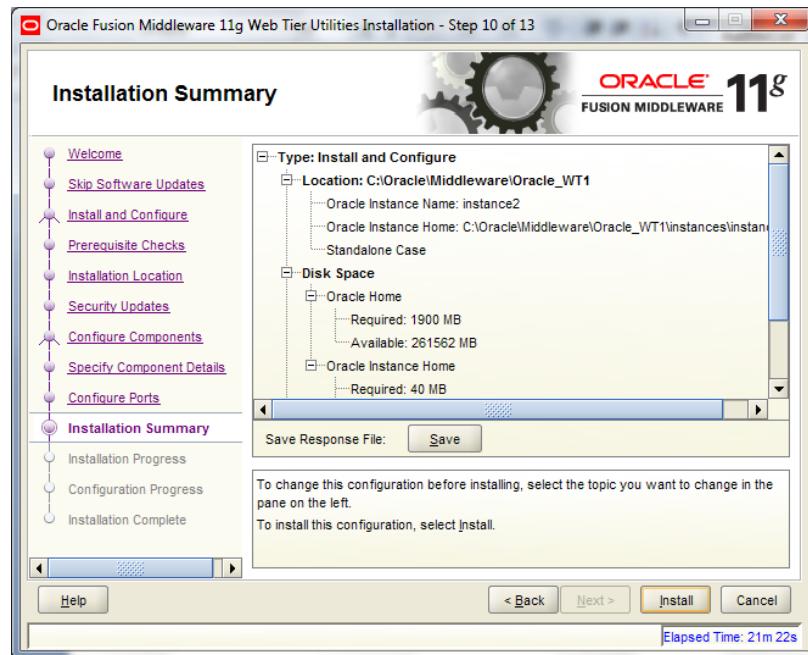


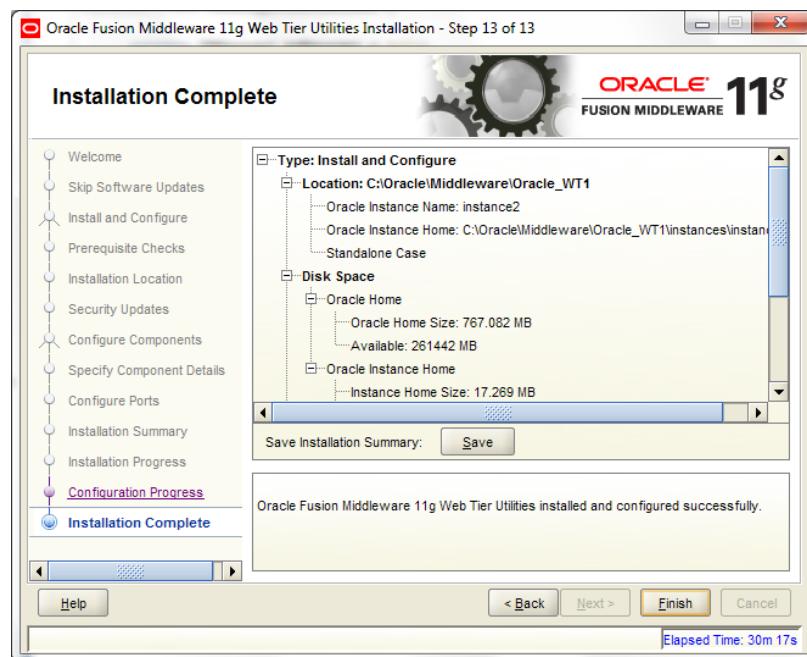
Select only Oracle HTTP Server



Enter the required OHS instance and component names







This completes the installation of Oracle HTTP Server with <Instance> and <component>. Example:

Instance is instance1 and component is ohs1.

If you would like to change the port after the installation(OHS Listen Port) edit

\$ORACLE\_INSTANCE/config/OHS/<component\_name>/httpd.conf and change the listen port.

NOTE: This port is for http protocol and not for https.

```

181 #
182 #
183 # Listen: Allows you to bind Apache to specific IP addresses and/or
184 # ports, instead of the default. See also the <VirtualHost>
185 # directive.
186 #
187 # Change this to Listen on specific IP addresses as shown below to
188 # prevent Apache from glomming onto all bound IP addresses (0.0.0.0)
189 #
190 # Listen 12.34.56.78:80
191 #
192 # OHS Listen Port
193 Listen 7777
194 #
195 #
196 # Dynamic Shared Object (DSO) Support
197 #
198 # To be able to use the functionality of a module which was built as a DSO you
199 # have to place corresponding 'LoadModule' lines at this location so the
200 # directives contained in it are actually available _before_ they are used.
201 # Statically compiled modules (those listed by 'httpd -l') do not need
202 # to be loaded here.
203 #
204 # Example:
205 # LoadModule foo_module "${ORACLE_HOME}/ohs/modules/mod_foo.so"
206

```

## 4. Configure Oracle HTTP Server infront of Weblogic Server

In Oracle HTTP Server requests from Oracle HTTP Server to Weblogic server are proxied using mod\_wl\_ohs module. This configuration file needs to be modified to include the Weblogic server and port details.

mod\_wl\_ohs.conf file is located at

`${ORACLE_INSTANCE}/config/OHS/{COMPONENT_NAME}/mod_wl_ohs.conf`

Add the below directives to mod\_wl\_ohs.conf file.

### 4.1 For WebLogic in single instance

```
<Location /<<context/url>> >
    SetHandler weblogic-handler
    WebLogicHost <<server name>>
    WeblogicPort <<port>>
</Location>
```

Example:

```
<Location /FCJNeoWeb>
    SetHandler weblogic-handler
    WebLogicHost wlserver1
    WeblogicPort 7707
</Location>
```

This will forward /FCJNeoWeb from HTTP server to /FCJNeoWeb on WebLogic Server wlserver1: 7707

```
# mod_wl_ohs.conf |
1 # NOTE : This is a template to configure mod_weblogic.
2
3 LoadModule weblogic_module      "${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"
4 LoadModule deflate_module       "${ORACLE_HOME}/ohs/modules/mod_deflate.so"
5
6 # This empty block is needed to save mod_wl related configuration from EM to i
7 <IfModule weblogic_module>
8 #     WebLogicHost <WEBLOGIC_HOST>
9 #     WebLogicPort <WEBLOGIC_PORT>
10 #     Debug ON
11 #     WLLogFile /tmp/weblogic.log
12 #     MatchExpression *.jsp
13 </IfModule>
14
15 # <Location /weblogic>
16 #     SetHandler weblogic-handler
17 #     PathTrim /weblogic
18 #     ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
19 # </Location>
20
21 <Location /FCJNeoWeb>
22     SetHandler weblogic-handler
23     WebLogicHost wlserver1
24     WebLogicPort 7707
25 </Location>
```

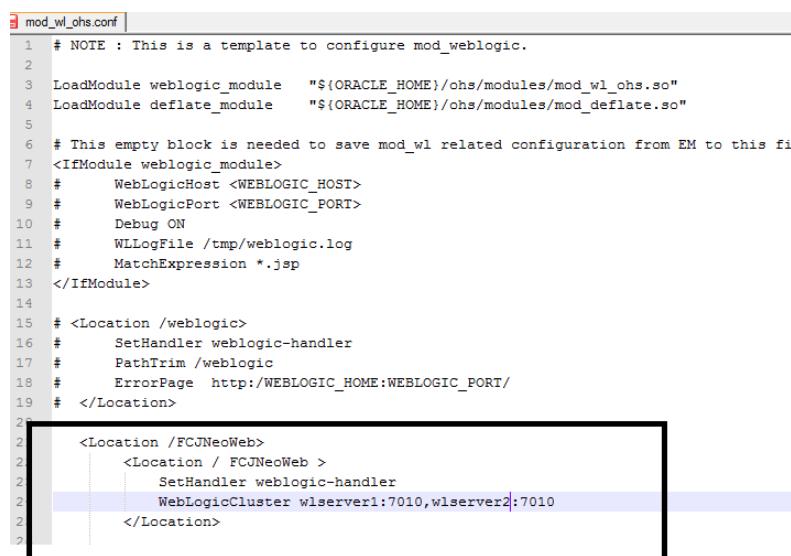
## 4.2 For Weblogic instances in cluster

```
<Location /<<context/url>> >
    SetHandler weblogic-handler
    WebLogicCluster <server1>:<port1>,<server2>:<port2>
</Location>
```

Example

```
<Location / FCJNeoWeb >
    SetHandler weblogic-handler
    WebLogicCluster wlserver1:7010, wlserver2:7010
</Location>
```

This will forward /FCJNeoWeb from HTTP server to /FCJNeoWeb on WebLogic Cluster wlserver1:7010 and wlserver2:7010



```
# mod_wl_ohs.conf
1 # NOTE : This is a template to configure mod_weblogic.
2
3 LoadModule weblogic_module " ${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"
4 LoadModule deflate_module " ${ORACLE_HOME}/ohs/modules/mod_deflate.so"
5
6 # This empty block is needed to save mod_wl related configuration from EM to this fi
7 <IfModule weblogic_module>
8 #     WebLogicHost <WEBLOGIC_HOST>
9 #     WebLogicPort <WEBLOGIC_PORT>
10 #     Debug ON
11 #     WLLogFile /tmp/weblogic.log
12 #     MatchExpression *.jsp
13 </IfModule>
14
15 # <Location /weblogic>
16 #     SetHandler weblogic-handler
17 #     PathTrim /weblogic
18 #     ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
19 # </Location>
20
21 <Location /FCJNeoWeb>
22     <Location / FCJNeoWeb >
23         SetHandler weblogic-handler
24         WebLogicCluster wlserver1:7010,wlserver2:7010
25     </Location>
26
27
```

## 5. Enable “WebLogic Plug-In Enabled” flag in weblogic

This flag needs to be enabled in weblogic if it is accessed through proxy plugins. When the WebLogic plugin is enabled, a call to getRemoteAddr will return the address of the browser client from the proprietary WL-Proxy-Client-IP header instead of the web server.

- a. Plugin flag at managed server level
  - i. Click on ‘Environment’ -> ‘Servers’ -> ‘<ManagedServer>’ -> ‘General’ -> ‘Advanced’
  - ii. Check the ‘WebLogic Plug-In Enabled’ box.
  - iii. Click ‘Save’
  - iv. Restart the Server.
- b. Plugin flag at domain level
  - v. Click on <Domain> -> ‘Web Applications’
  - vi. Check the ‘WebLogic Plug-In Enabled’ box.
  - vii. Click ‘Save’
  - viii. Restart the server.

## 6. Compression rule setting

Content compression in Oracle HTTP Server is done using mod\_deflate. This can compress HTML, text or XML files to approx. 20 - 30% of their original sizes, thus saving on server traffic. However, compressing files causes a slightly higher load on the server, but clients' connection times to server is reduced.

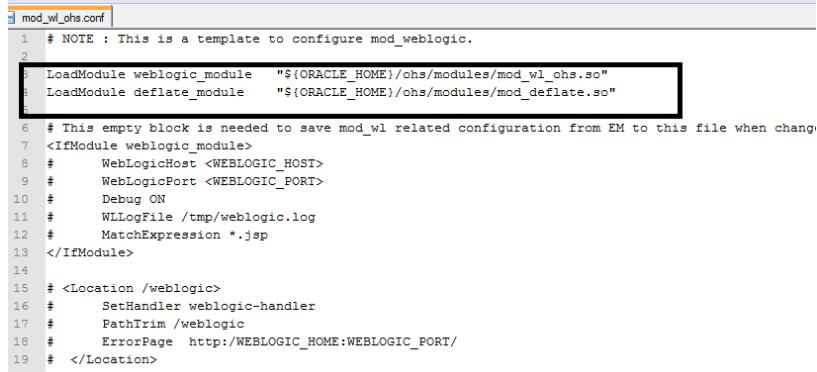
### 6.1 Loading mod\_deflate

mod\_deflate is used for compression in OHS and this is installed in Oracle HTTP Server under location  
"\${ORACLE\_HOME}/OHS/modules/mod\_deflate.so"

But it might not be loaded.

To load the file add the below directive in mod\_wl\_ohs.conf file

```
LoadModule deflate_module      "${ORACLE_HOME}/OHS/modules/mod_deflate.so"
```



```

mod_wl_ohs.conf
1 # NOTE : This is a template to configure mod_weblogic.
2
3 LoadModule weblogic_module      "${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"
4 LoadModule deflate_module      "${ORACLE_HOME}/ohs/modules/mod_deflate.so"

5 # This empty block is needed to save mod_wl related configuration from EM to this file when chang
6 <IfModule weblogic_module>
7   # WebLogicHost <WEBLOGIC_HOST>
8   # WebLogicPort <WEBLOGIC_PORT>
9   # Debug ON
10  # WLLogFile /tmp/weblogic.log
11  # MatchExpression *.jsp
12 </IfModule>
13
14
15 <Location /weblogic>
16   # SetHandler weblogic-handler
17   # PathTrim /weblogic
18   # ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
19 </Location>

```

## 6.2 Configuring file types

mod\_deflate also requires to specify which type files are going to be compressed.

In the LOCATION section of mod\_wl\_ohs.conf file add the below entries.

```
AddOutputFilterByType DEFLATE text/plain
AddOutputFilterByType DEFLATE text/xml
AddOutputFilterByType DEFLATE application/xhtml+xml
AddOutputFilterByType DEFLATE text/css
AddOutputFilterByType DEFLATE application/xml
AddOutputFilterByType DEFLATE application/x-javascript
AddOutputFilterByType DEFLATE text/html
SetOutputFilter DEFLATE
```

Images are supposed to be in a compressed format, and therefore are bypassed by mod\_deflate.

```
21 <Location /FCJNeoWeb>
22   SetHandler weblogic-handler
23   WebLogicHost wlserver1
24   WebLogicPort 7707
25
26   AddOutputFilterByType DEFLATE text/plain
27   AddOutputFilterByType DEFLATE text/xml
28   AddOutputFilterByType DEFLATE application/xhtml+xml
29   AddOutputFilterByType DEFLATE text/css
30   AddOutputFilterByType DEFLATE application/xml
31   AddOutputFilterByType DEFLATE application/x-javascript
32   AddOutputFilterByType DEFLATE text/html
33   SetOutputFilter DEFLATE
```

## 6.3 httpd.conf file changes

This is a server configuration file which typically contains directives that affect how the server runs, such as user and group IDs it should use, and location of other files. Cross check the existence of mod\_wl\_ohs.conf include in httpd.conf file.

httpd.conf file is present under location

“\${ORACLE\_INSTANCE}/config/OHS/{COMPONENT\_NAME}/httpd.conf”

In this file cross check for the below entry

include "\${ORACLE\_INSTANCE}/config/OHS/\${COMPONENT\_NAME}/mod\_wl\_ohs.conf"

If above include entry is not present, then add the above include section.

```
L013 #Directives to setup logging via OUL
L014 OraLogDir "${ORACLE_INSTANCE}/diagnostics/logs/${COMPONENT_TYPE}/${COMPONENT_NAME}"
L015 OraLogMode ocl-text
L016 OraLogSeverity WARNING:32
L017 OraLogRotationParams S 10:70
L018
L019
L020 # Set it to On to enable Audit Logs
L021 OraAuditEnable On
L022
L023 # Include the configuration files needed for mod_weblogic
L024 include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/mod_wl_ohs.conf"
L025
L026 # Include the SSL definitions and Virtual Host container
L027 include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/ssl.conf"
L028
L029 # Include the admin virtual host (Proxy Virtual Host) related configuration
L030 include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/admin.conf"
L031
L032 include "moduleconf/*.conf"
L033
```

## 7. Configuring SSL for Oracle HTTP Server

Secure Sockets Layer (SSL) is required to run any Web site securely. Secure Sockets Layer (SSL) is an encrypted communication protocol that is designed to securely send messages across the Internet.

Reading of “**SSL\_Configuration on Weblogic**” document provided as part of FCUBS installation is recommended before proceeding with further setup.

In Oracle HTTP server, SSL configuration can be done between

1. Browser to Oracle HTTP Server(Mandatory)
2. Oracle HTTP Server to Oracle Weblogic Server(If required)

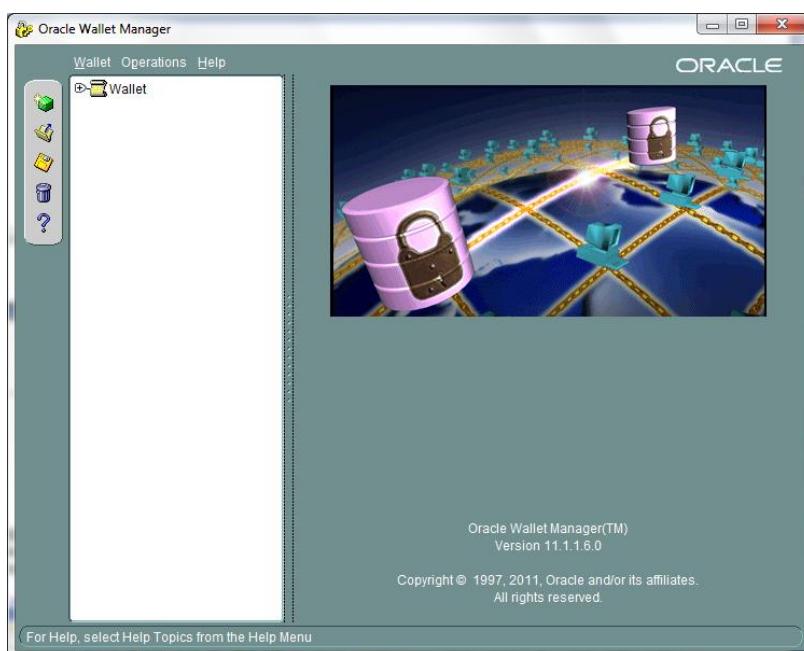
### 7.1 SSL configuration for Inbound Request to Oracle HTTP Server

Perform these tasks to enable and configure SSL between browser and Oracle HTTP Server.

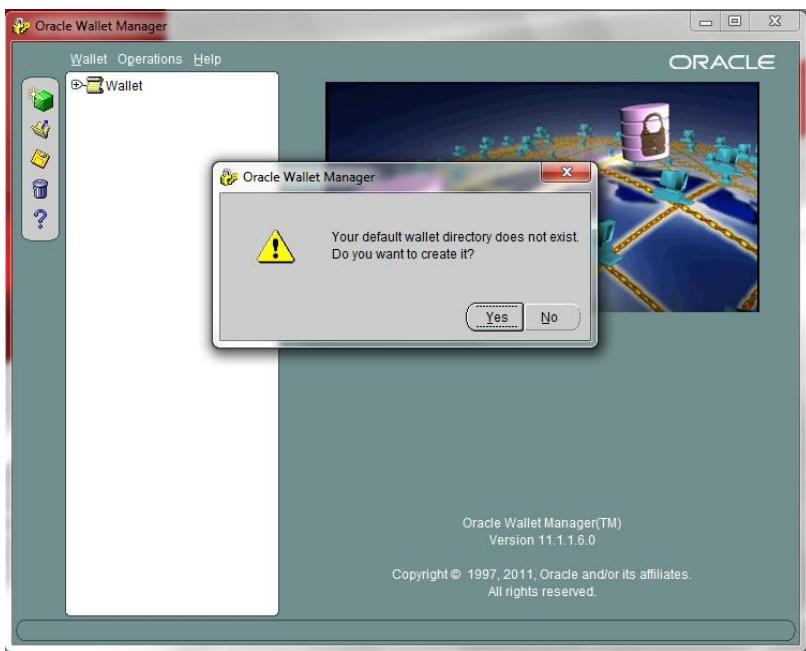
1. Obtain a certificate from CA or create a self signed certificate.
2. Create an Oracle Wallet which contains the above SSL Certificate. The default wallet that is automatically installed with Oracle HTTP Server is for testing purposes only. The default wallet is located in “\${ORACLE\_INSTANCE}/config/OHS/\${COMPONENT\_NAME}/keystores/default”
3. Configuring Wallet in ssl.conf file

#### 7.1.1 Create a new Wallet and import Certificate

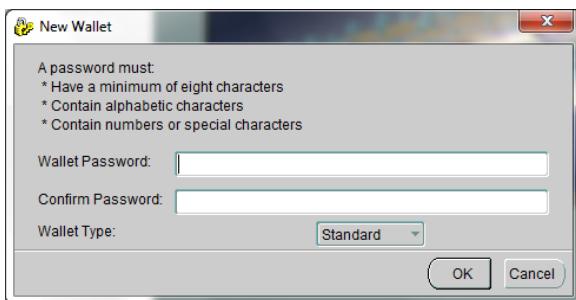
1. Go to the \Oracle\_WT1\bin\launch.exe, this will launch your wallet manager



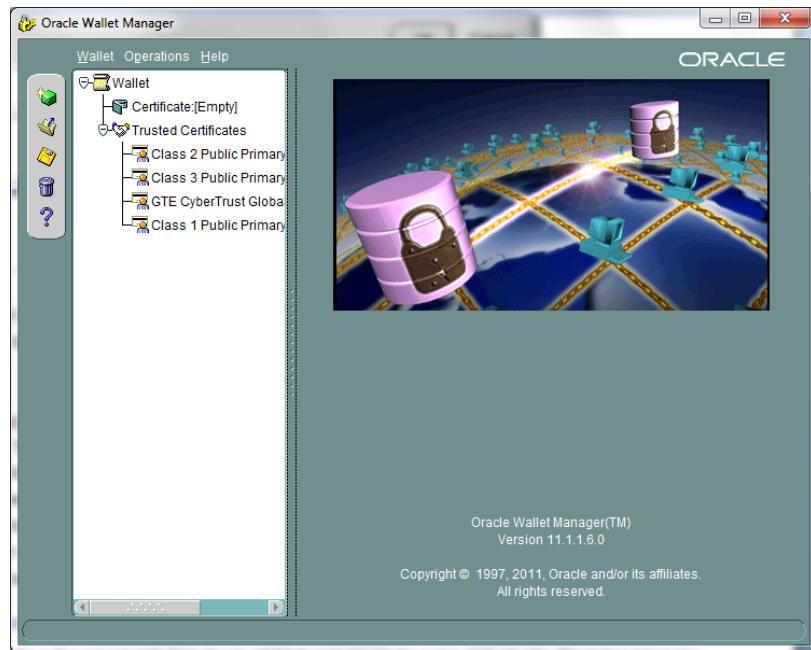
2. Click on Create new and then click no option.



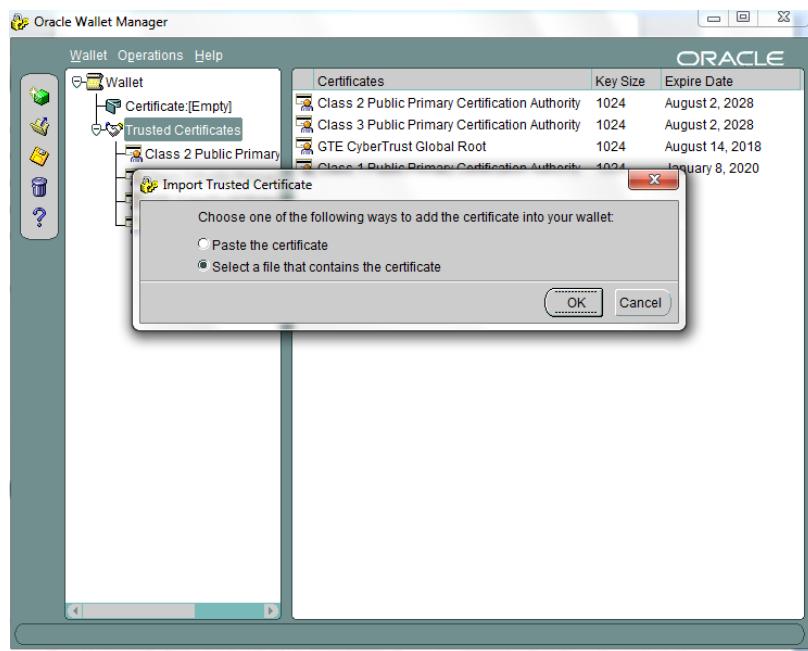
3. Enter the wallet password and click on OK, this will create a new wallet.



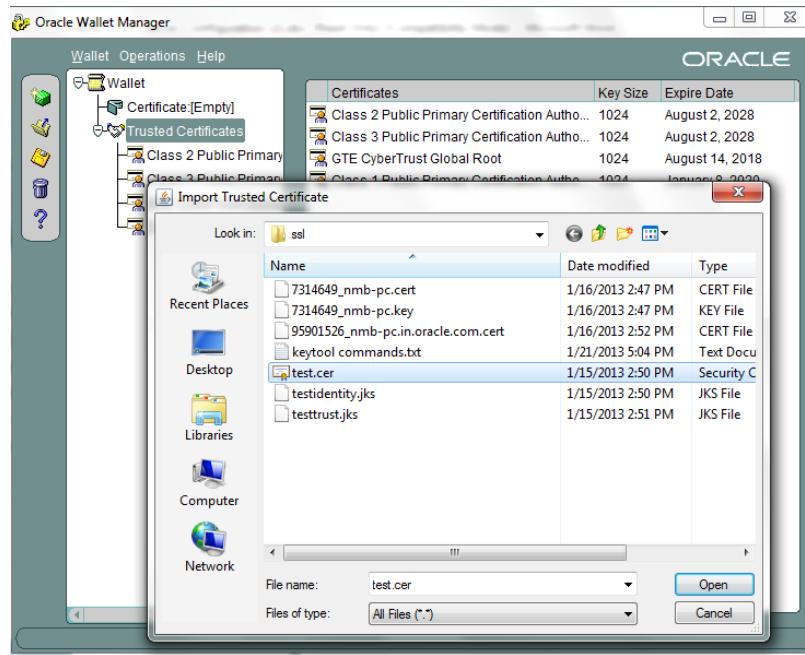
4. Not it will ask for certificate request creation, Click on NO to proceed



5. Right click on trusted certificates and then import trusted certificate.



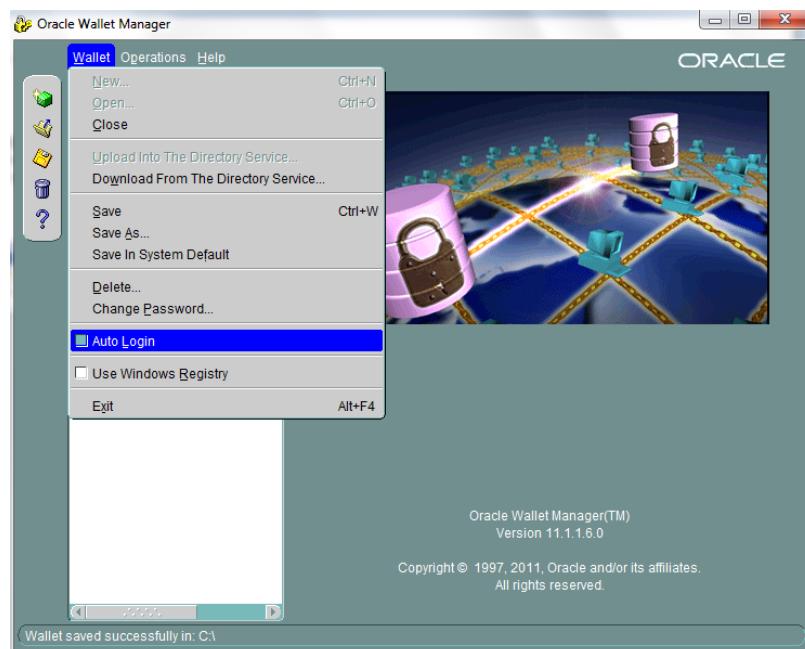
6. Browse to the folder where certificate is stored and click on Open



7. Click on Save Wallet button on the left side navigation and save the wallet either to default

location("\${ORACLE\_INSTANCE}/config/OHS/\${COMPONENT\_NAME}/keystores/default") or folder of your choice.

8. Click on Wallet tab and enable Auto Login



### 7.1.2 Configuring Wallet in ssl.conf file

In ssl.conf file the newly created wallet need to updated. This file is located under folder

"\${ORACLE\_INSTANCE}/config/OHS/\${COMPONENT\_NAME}/"

1. Change the SSLWallet directive to point to the location of new wallet created.

```
SSLWallet "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/keystores/"
```

```
4   * List the ciphers that the client is permitted to negotiate.
5 SSLCipherSuite
6   SSL_RSA_WITH_RC4_128_MD5,SSL_RSA_WITH_RC4_128_SHA,SSL_RSA_WITH_3DES_EDE_CBC_SHA,SSL_RSA_WITH_DES_CBC_SHA
7   AES_256_CBC_SHA
8
9   # SSL Certificate Revocation List Check
10  # Valid values are On and Off
11  SSLCRICheck Off
12
13  #Path to the wallet
14  SSLWallet "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/keystores/"
15
16  <FilesMatch "\.(cgi|shhtml|phtml|php)$">
17      SSLOptions +StdEnvVars
18  </FileMatch>
19
20
21  <Directory "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/cgi-bin">
22      SSLOptions +StdEnvVars
23  </Directory>
24
25  BrowserMatch "MSIE.*" \
26  nokeepalive ssl-unclean-shutdown \
27  downgrade-1.0 force-response-1.0
28
29
30  </IfModule>
31 </VirtualHost>
32
33 </IfModule>
```

2. Change the Listen port number in ssl.conf file to the SSL enabled port, by default the value is 4443

```
1 #####  
2 # Oracle HTTP Server mod_oss1 configuration file: ssl.conf      #  
3 #####  
4  
5  
6 # OHS Listen Port  
7 Listen 4443  
8  
9 <IfModule ossl_module>  
0 ##  
1 ## SSL Global Context  
2 ##  
3 ## All SSL configuration in this context applies both to  
4 ## the main server and all SSL-enabled virtual hosts.  
5 ##  
6 ##  
7 #  
8 # Some MIME-types for downloading Certificates and CRLs  
9 AddType application/x-x509-ca-cert .crt  
0 AddType application/x-pkcs7-crl    .crl  
1  
2 # Pass Phrase Dialog:
```

## 7.2 Configuring SSL between Oracle HTTP Server and Oracle Weblogic Server

SSL for outbound requests from Oracle HTTP Server are configured in mod\_wl\_ohs.

Refer to “**SSL Configuration on Weblogic**” document for weblogic server setting mentioned in below section.

### 7.2.1 Turn off KeepAliveEnabled

The below parameter in mod\_wl\_ohs should be turned off, by default it is on. Add the below directive under LOCATION section of mod\_wl\_ohs file

KeepAliveEnabled OFF

```

6      AddOutputFilterByType DEFLATE text/plain
7      AddOutputFilterByType DEFLATE text/xml
8      AddOutputFilterByType DEFLATE application/xhtml+xml
9      AddOutputFilterByType DEFLATE text/css
0      AddOutputFilterByType DEFLATE application/xml
1      AddOutputFilterByType DEFLATE application/x-javascript
2      AddOutputFilterByType DEFLATE text/html
3      SetOutputFilter DEFLATE
4
5      KeepAliveEnabled OFF
6
7      WLSWallet "D:\misc\ssl\"
```

8 </Location>

### 7.2.2 To enable one-way SSL

1. Generate a custom keystore identity.jks for Weblogic Server containing a certificate.
2. At Identity section in Keystores tab in weblogic Admin Console for server set
  - a. The custom trust store with the identity.jks file location
  - b. The keystore type as JKS
  - c. The passphrase used to created the keystore

Home > base\_domain > Summary of Environment > Summary of Servers > AdminServer  
Messages

Changes to your Keystore configuration may require you to update your SSL Configuration. Please review your settings on the SSL tab.  
All changes have been activated. No restarts are necessary.  
Settings updated successfully.

**Settings for AdminServer**

Keystores		Custom Identity and Custom Trust		Change	Which configuration rules should be used for keystores? More Info...
<b>Identity</b>					
Custom Identity Keystore:	D:\misc\testidentity.jks	The path and file name of the identity keystore			
Custom Identity Keystore Type:	JKS	The type of the keystore. Generally, this is JKS			
Custom Identity Keystore Passphrase:	*****	The encrypted custom identity keystore's passphrase. If the keystore will be opened without a passphrase, the password will be prompted for.			
Confirm Custom Identity Keystore Passphrase:	*****				
<b>Trust</b>					
Custom Trust Keystore:	D:\misc\testtrust.jks	The path and file name of the custom trust keystore			
Custom Trust Keystore Type:	JKS	The type of the keystore. Generally, this is JKS			
Custom Trust Keystore Passphrase:	*****	The custom trust keystore's passphrase. If the keystore will be opened without a passphrase, the password will be prompted for. More Info...			
Confirm Custom Trust Keystore Passphrase:	*****				

3. Copy the certificate to Oracle HTTP Server and import the new certificate into OHS wallet as a trusted certificate.
4. Add following new directive in mod\_wl\_ohs.conf to point to the wallet location  
WSSLWallet "\${ORACLE\_INSTANCE}/config/OHS/{COMPONENT\_NAME}/keystores/default"
5. Change the port in mod\_wl\_ohs file to point to SSL port of Weblogic server.

```

20 <Location /FCJNeoWeb>
21   <SetEnv name="WL_HOME" value="D:\Oracle\Middleware\wlserver_10.3\wlserver"/>
22   <SetEnv name="WL_HOSTNAME" value="192.168.1.11"/>
23   <SetEnv name="WL_PORT" value="443"/>
24   <SetEnv name="WLSSLCERTIFICATE" value="D:\Oracle\Middleware\wlserver_10.3\wlserver\config\OHS\FCJNeoWeb\keystores\default\server.jks"/>
25
26   AddOutputFilterByType DEFLATE text/plain
27   AddOutputFilterByType DEFLATE text/xml
28   AddOutputFilterByType DEFLATE application/xhtml+xml
29   AddOutputFilterByType DEFLATE text/css
30   AddOutputFilterByType DEFLATE application/xml
31   AddOutputFilterByType DEFLATE application/x-javascript
32   AddOutputFilterByType DEFLATE text/html
33   SetOutputFilter DEFLATE
34
35   KeepAliveEnabled OFF
36
37   WSSLWallet "${ORACLE_INSTANCE}/config/OHS/{COMPONENT_NAME}/keystores/"
38 </Location>
39
40

```

6. Restart both Weblogic Server and Oracle HTTP Server

### 7.2.3 To enable two-way SSL

1. Perform one-way SSL configuration steps
2. Generate a new trust store, trust.jks for Weblogic server
3. Keystore created for one-way SSL could be used, but it is recommended to create a separate truststore
4. Export the user certificate from Oracle HTTP Server wallet, and import it into truststore created above
5. At Trust section in Keystores tab in Weblogic Admin Console for the server set
  - a. The custom trust store with the trust.jks file location
  - b. The keystore type as JKS
  - c. The passphrase used to created the keystore

**Messages**

Changes to your Keystore configuration may require you to update your SSL Configuration. Please review your settings on the SSL tab.  
 ✓ All changes have been activated. No restarts are necessary.  
 ✓ Settings updated successfully.

**Settings for AdminServer**

**Keystores**

Custom Identity Keystore:	D:\misc\testidentity.jks	Which configuration rules should be used for trust keystores? <a href="#">More Info...</a>
Custom Identity Keystore Type:	JKS	The type of the keystore. Generally, this is JKS.
Custom Identity Keystore Passphrase:	*****	The encrypted custom identity keystore's passphrase will be opened without a passphrase. <a href="#">More Info...</a>
Confirm Custom Identity Keystore Passphrase:	*****	

**Trust**

Custom Trust Keystore:	D:\misc\testtrust.jks	The path and file name of the custom trust keystore.
Custom Trust Keystore Type:	JKS	The type of the keystore. Generally, this is JKS.
Custom Trust Keystore Passphrase:	*****	The custom trust keystore's passphrase will be opened without a passphrase. <a href="#">More Info...</a>
Confirm Custom Trust Keystore Passphrase:	*****	

## 6. Under the SSL tab

Ensure trusted CA is set as from Custom Trust Keystore.

## 7. Restart Weblogic Server

## 8. Sample Configuration Files



## 9. Starting, Stopping, and Restarting Oracle HTTP Server

Navigate to the below location in command prompt \${ORACLE\_INSTANCE}/bin/ and run below commands

### 9.1 Start

```
opmnctl startproc ias-component={COMPONENT_NAME}
```

Example: opmnctl startproc ias-component=ohs1

### 9.2 Stop

```
opmnctl stopproc ias-component={COMPONENT_NAME}
```

Example: opmnctl stopproc ias-component=ohs1

### 9.3 Restart

```
opmnctl restartproc ias-component={COMPONENT_NAME}
```

Example: opmnctl restartproc ias-component=ohs1

## 10. Test the application

Test the application deployed on Weblogic using Oracle HTTP Server after restarting both the oracle http server and weblogic server

`https://ohs_servername:ohs_https_port/<<context/url>>`

`http://ohs_servername:ohs_http_port/<<context/url>>`

ohs\_servername: server on which OHS is deployed

ohs\_https\_port: port number mentioned against LISTEN directive in SSL.conf file

ohs\_http\_port: port number mentioned against LISTEN directive in httpd.conf file

Example:

`https://localhost:4443/FCJNeoWeb/welcome.jsp`

Or

`http://localhost:7777/FCJNeoWeb/welcome.jsp`

## 11. Server Logs Location

Oracle HTTP Server Logs are generated under folder

`${ORACLE_INSTANCE}/diagnostics/logs/OHS/{COMPONENT_NAME}/`

## 12. References

SSL\_Configuration.doc for Weblogic provided as part of FCUBS installation.

[http://docs.oracle.com/cd/E16764\\_01/web.1111/e10144/under\\_mods.htm](http://docs.oracle.com/cd/E16764_01/web.1111/e10144/under_mods.htm)

[http://docs.oracle.com/cd/E25054\\_01/core.1111/e10105/sslconfig.htm](http://docs.oracle.com/cd/E25054_01/core.1111/e10105/sslconfig.htm)



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