

Weblogic Configuration
Oracle Banking Enterprise Limits and Collateral Management
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1. Configuring SSL on Oracle Weblogic

1.1 Introduction

This chapter details out the configurations for SSL on Oracle Weblogic application server.

1.2 Setting up SSL on Oracle Weblogic

To setup SSL on Oracle Weblogic application server, you need to perform the following tasks:

1. Obtain an identity (private key and digital certificates) and trust (certificates of trusted certificate authorities) for Oracle Weblogic application server.
2. Store the identity and trust. Private keys and trust CA certificates are stored in keystores.
3. Configure the identity and trust the keystores for Oracle Weblogic application server in the administration console.
4. Set SSL attributes for the private key alias and password in Oracle Weblogic administration console.

1.3 Certificates and Keypairs

Certificates are used for validating the authenticity of the server. Certificates contains the name of the owner, certificate usage, duration of validity, resource location or distinguished name (DN), which includes the common name (CN - web site address or e-mail address depending of the usage) and the certificate ID of the person who certified (signs) these information. It also contains the public key and a hash to ensure that the certificate has not been tampered with. A certificate is insecure until it is signed. Signed certificates cannot be modified.

A certificate can be self signed or obtained from a reputable certificate authority such as Verisign, Inc., Entrust.net, Thawte, GeoTrust or InstantSSL.

SSL uses a pair of cryptographic keys - a **public key** and a **private key**. These keys are similar in nature and can be used alternatively. What one key encrypts can be decrypted by the other key of the pair. The private key is kept secret, while the public key is distributed using the certificate.

A **keytool** stores the keys and certificates in a **keystore**. The default keystore implementation implements it as a file. It protects private keys with a password. The different entities (key pairs and the certificates) are distinguished by a unique 'alias'. Through its keystore, Oracle Weblogic server can authenticate itself to other parties.

In Java, a keystore is a 'java.security.KeyStore' instance that you can create and manipulate using the **keytool** utility provided with the Java Runtime.

There are two keystores to be managed by Oracle Weblogic server to configure SSL.

- Identity Keystore: Contains the key pairs and the Digital certificate. This can also contain certificates of intermediate CAs.
- Trust Keystore: Contains the trusted CA certificates.

2. Choosing the Identity and Trust Stores

2.1 Introduction

Oracle Financial Services Software recommends that the choice of Identity and Trust stores be made up front. Oracle Weblogic server supports the following combinations of Identity and Trust stores:

- Custom Identity and Command Line Trust
- Custom Identity and Custom Trust
- Custom Identity and Java Standard Trust
- Demo Identity and Demo Trust

Oracle Financial Services does not recommend choosing Demo Identity and Demo Trust for production environments.

It is recommended to separate the identity and trust stores, since each Weblogic server tends to have its own identity, but might have the same set of trust CA certificates. Trust stores are usually copied across Oracle Weblogic servers, to standardize trust rules; it is acceptable to copy trust stores since they contain public keys and certificates of CAs. Unlike trust stores, identity stores contain private keys of the Oracle Weblogic server, and hence should be protected against unauthorized access.

Command Line Trust, if chosen requires the trust store to be specified as a command line argument in the Weblogic Server startup script. No additional configuration of the trust store is required in the Weblogic Server Administration Console.

Java Standard Trust would rely on the cacerts files provided by the Java Runtime. This file contains the list of trust CA certificates that ship with the Java Runtime, and is located in the 'JAVA_HOME/jre/lib/security' directory. It is highly recommended to change the default Java standard trust store password from 'changeit' (without quotes), and the default access permission of the file. Certificates of most commercial CAs are already present in the Java Standard Trust store. Therefore, it is recommended to use the Java Standard Trust store whenever possible. The rest of the document will assume the use of Java Standard Trust, since most CA certificates are already present in it.

One can also create custom trust stores containing the list of certificates of trusted CAs.

For further details on identity and trust stores, please refer the Oracle Weblogic Server documentation on Securing Oracle Weblogic Server.

3. Obtaining the Identity Store

3.1 Creating Identity Store with Self-Signed Certificates

Self-signed certificates are acceptable for use in a testing or development environment. Oracle Financial Services does not recommend the use of self-signed certificates in a production environment.

In order to create a self-signed certificate, the `genkeypair` option provided by the `keytool` utility of Sun Java 6 needs to be utilized.

3.1.1 Creation of Self-signed Certificate

Browse to the `bin` folder of JRE from the command prompt and type the following command.



The items highlighted in blue are placeholders, and should be replaced with suitable values when running the command.

```
keytool -genkeypair -alias alias -keyalg RSA -keysize 1024 -sigalg  
SHA1withRSA -validity 365 -keystore keystore
```

In the above command,

1. ***alias*** is used to identify the public and private key pair created. This alias is required later when configuring the SSL attributes for the managed servers in Oracle Weblogic Server.
2. ***keystore*** is used to specify the location of the JKS file. If no JKS file is present in the path provided, one will be created.

The command will prompt for the following attributes of the certificate and keystore:

1. **Keystore Password:** Specify a password that will be used to access the keystore. This password needs to be specified later, when configuring the identity store in Oracle Weblogic Server.
2. **Key Password:** Specify a password that will be used to access the private key stored in the keystore. This password needs to be specified later, when configuring the SSL attributes of the managed server(s) in Oracle Weblogic Server.
3. **First and Last Name (CN):** Enter the domain name of the machine used to access FLEXCUBE UBS, for instance, `www.example.com`
4. **Name of your Organizational Unit:** The name of the department or unit making the request, for example, BPD. Use this field to further identify the SSL Certificate you are creating, for example, by department or by physical server.
5. **Name of your Organization:** The name of the organization making the certificate request, for example, Oracle Financial Services. It is recommended to use the company or organization's formal name, and this name entered here must match the name found in official records.

6. **Name of your City or Locality:** The city in which your organization is physically located, for example Mumbai.
7. **Name of your State or Province:** The state/province in which your organization is physically located, for example Maharashtra.
8. **Two-Letter Country Code for this Unit:** The country in which your organization is physically located, for example US, UK, IN etc.



The key generation algorithm has been specified as RSA, the key size as 1024 bits, the signature algorithm as SHA1withRSA, and the validity days as 365. These can be changed to suitable values if the need arises. For further details, please refer to the documentation of the keytool utility in the JDK utilized by Oracle Weblogic Server.

Example

Listed below is the result of a sample execution of the command:

```
D:\Oracle\weblogic11g\jrockit_160_05_R27.6.2-20\bin>keytool -
genkeypair -alias selfcert -keyalg RSA -keysize 1024 -sigalg
SHA1withRSA -validity 365 -keystore D:\keystores\FCUBSKeyStore.jks

Enter keystore password:<Enter a password to protect the keystore>
Re-enter new password:<Confirm the password keyed above>
What is your first and last name?
  [Unknown]:  cvrhp0729.i-flex.com
What is the name of your organizational unit?
  [Unknown]:  BPD
What is the name of your organization?
  [Unknown]:  Oracle Financial Services
What is the name of your City or Locality?
  [Unknown]:  Mumbai
What is the name of your State or Province?
  [Unknown]:  Maharashtra
What is the two-letter country code for this unit?
  [Unknown]:  IN
Is CN=cvrhp0729.i-flex.com, OU=BPD, O=Oracle Financial Services,
L=Mumbai, ST=Maharashtra, C=IN correct?
  [no]:  yes

Enter key password for <selfcert>
      (RETURN if same as keystore password):<Enter a password to
protect the key>
Re-enter new password:<Confirm the password keyed above>
```

3.2 Creating Identity Store with Trusted Certificates Issued by CA

3.2.1 Creation of Public and Private Key Pair

Browse to the bin folder of JRE from the command prompt and type the following command.



The items highlighted in blue are placeholders, and should be replaced with suitable values when running the command.

```
keytool -genkeypair -alias alias -keyalg keyalg -keysize keysize -  
sigalg sigalg -validity valDays -keystore keystore
```

In the above command,

1. ***alias*** is used to identify the public and private key pair created. This alias is required later when configuring the SSL attributes for the managed servers in Oracle Weblogic Server.
2. ***keyalg*** is the key algorithm used to generate the public and private key pair. The RSA key algorithm is recommended.
3. ***keysize*** is the size of the public and private key pairs generated. A key size of 1024 or more is recommended. Please consult with your CA on the key size support for different types of certificates.
4. ***sigalg*** is the algorithm used to generate the signature. This algorithm should be compatible with the key algorithm and should be one of the values specified in the Java Cryptography API Specification and Reference.
5. ***valdays*** is the number of days for which the certificate is to be considered valid. Please consult with your CA on this period.
6. ***keystore*** is used to specify the location of the JKS file. If no JKS file is present in the path provided, one will be created.

The command will prompt for the following attributes of the certificate and keystore:

1. **Keystore Password:** Specify a password that will be used to access the keystore. This password needs to be specified later, when configuring the identity store in Oracle Weblogic Server.
2. **Key Password:** Specify a password that will be used to access the private key stored in the keystore. This password needs to be specified later, when configuring the SSL attributes of the managed server(s) in Oracle Weblogic Server.
3. **First and Last Name (CN):** Enter the domain name of the machine used to access FLEXCUBE UBS, for instance, www.example.com
4. **Name of your Organizational Unit:** The name of the department or unit making the request, for example, BPD. Use this field to further identify the SSL Certificate you are creating, for example, by department or by physical server.

5. **Name of your Organization:** The name of the organization making the certificate request, for example, Oracle Financial Services. It is recommended to use the company or organization's formal name, and this name entered here must match the name found in official records.
6. **Name of your City or Locality:** The city in which your organization is physically located, for example Mumbai.
7. **Name of your State or Province:** The state/province in which your organization is physically located, for example Maharashtra.
8. **Two-letter Country Code for this Unit:** The country in which your organization is physically located, for example US, UK, IN etc.

Example

Listed below is the result of a sample execution of the command:

```
D:\Oracle\weblogic11g\jrockit_160_05_R27.6.2-20\bin>keytool -
genkeypair -alias cvrhp0729 -keyalg RSA -keysize 1024 -sigalg
SHA1withRSA -validity 365 -keystore D:\keystores\FCUBSKeyStore.jks

Enter keystore password:<Enter a password to protect the keystore>
Re-enter new password:<Confirm the password keyed above>
What is your first and last name?
  [Unknown]:  cvrhp0729.i-flex.com
What is the name of your organizational unit?
  [Unknown]:  BPD
What is the name of your organization?
  [Unknown]:  Oracle Financial Services
What is the name of your City or Locality?
  [Unknown]:  Mumbai
What is the name of your State or Province?
  [Unknown]:  Maharashtra
What is the two-letter country code for this unit?
  [Unknown]:  IN
Is CN=cvrhp0729.i-flex.com, OU=BPD, O=Oracle Financial Services,
L=Mumbai, ST=Maharashtra, C=IN correct?
  [no]:  yes

Enter key password for <cvrhp0729>
      (RETURN if same as keystore password):<Enter a password to
protect the key>
Re-enter new password:<Confirm the password keyed above>
```

3.2.2 Generating CSR

To purchase an SSL certificate, one needs to generate a Certificate Signing Request (CSR) for the server where the certificate will be installed.

A CSR is generated from the server and is the server's unique "fingerprint". The CSR includes the server's public key, which enables server authentication and secure communication.



If the keystore file or the password is lost and a new one is generated, the SSL certificate and the private key will no longer match. A new SSL Certificate will have to be requested.

The CSR is created by running the following command in the bin directory of the JRE:

```
keytool -certreq -alias alias -file certreq_file -keystore keystore
```

In the above command,

1. ***alias*** is used to identify the public and private key pair. The private key associated with the alias will be utilized to create the CSR. Specify the alias of the key pair created in the previous step.
2. ***certreq_file*** is the file in which the CSR will be stored.
3. ***keystore*** is the location of the keystore containing the public and private key pair.

Example

Listed below is the result of a sample execution of the command

```
D:\Oracle\Weblogic11g\jrocket_160_05_R27.6.2-20\bin>keytool -certreq -
alias cvrhp0729 -file D:\keystores\certreq.csr -keystore
D:\keystores\FCUBSKeyStore.jks

Enter keystore password: [Enter the password used to access the
keystore]

Enter key password for <cvrhp0729> [Enter the password used to access
the key in the keystore]
```

3.2.3 Obtaining Trusted Certificate from CA

The processes of obtaining a trusted certificate vary from one CA to another. The CA might perform additional offline verification. Consult the CA issuing the certificate for details on the process to be followed for submission of the CSR and for obtaining the certificate.

3.2.4 Importing Certificate into Identity Store

Store the certificate obtained from the CA in the previous step, in a file, preferably in PEM format. Other formats like the p7b file format would require conversion to the PEM format. Details on performing the conversion are not listed here. Please refer to the Oracle Weblogic Server documentation on Securing Oracle Weblogic Server, for details on converting a Microsoft p7b file to the PEM format.

The command to be executed for importing a certificate into the identity store depend on whether the trust store chosen (in the earlier step; see section 2 of this document). It is highly recommended to verify the trust path when importing a certificate into the identity store. The commands provided below assume the use of the Java Standard Trust store.

Importing the Intermediate CA certificate

Most Certificate Authorities do not use the root CA certificates to issue identity certificates for use by customers. Instead, Intermediate CAs issue identity certificates in response to the submitted CSRs.

If the Intermediate CA certificate is absent in the Java Standard Trust store, the trust path for the certificate will be incomplete for the certificate, resulting in warnings issued by Weblogic Server during runtime. To avoid this, the intermediate CA certificate should be imported into the identity keystore. Although the intermediate CA certificate can be imported into the Java Standard Trust store, this is not recommended unless the intermediate CA can be trusted.

The following command should be executed to import the intermediate CA certificate into the keystore.

```
keytool -importcert -alias alias -file cert_file -trustcacerts -keystore  
keystore
```

In the above command,

1. ***alias*** is used to identify the public and private key pair. Specify the alias of the key pair used to create the CSR in the earlier step.
2. ***cert_file*** is the location of the file containing the intermediate CA certificate in a PKCS#7 format (PEM or DER file).
3. ***keystore*** is the location of the keystore containing the public and private key pair.



The trustcacerts flag is used to consider other certificates (higher intermediaries and the root CA) in the chain of trust. If no chain of trust is established during verification, the certificate will be displayed and one would be prompted to verify it. It is recommended that due diligence be observed, when the prompt is displayed to verify a certificate when a chain of trust is absent.

Listed below is a sample execution of the command

```
D:\Oracle\weblogic11g\jrockit_160_05_R27.6.2-20\bin>keytool -  
importcert -alias verisigntrialintermediateca -file  
D:\keystores\VerisignIntermediateCA.cer -trustcacerts -keystore  
D:\keystoreworkarea\FCUBSKeyStore.jks  
  
Enter keystore password:<Enter the password used to access the  
keystore>  
  
Certificate was added to keystore
```

Importing the Identity certificate

The following command should be executed to import the identity certificate into the keystore.

```
keytool -importcert -alias alias -file cert_file -trustcacerts -keystore  
keystore
```

In the above command,

1. ***alias*** is used to identify the public and private key pair. Specify the alias of the key pair used to create the CSR in the earlier step.

2. **cert_file** is the location of the file containing the PKCS#7 formatted reply from the CA, containing the signed certificate.
3. **keystore** is the location of the keystore containing the public and private key pair.

The trustcacerts flag is used to consider other certificates (intermediate CAs and the root CA) in the chain of trust. If no chain of trust is established during verification, the certificate will be displayed and one would be prompted to verify it. It is recommended that due diligence be observed, when the prompt is displayed to verify a certificate when a chain of trust is absent.

Listed below is a sample execution of the command

```
D:\Oracle\weblogic11g\jrockit_160_05_R27.6.2-20\bin>keytool -
importcert -alias cvrhp0729 -file D:\keystores\cvrhp0729.cer -
trustcacerts -keystore D:\keystoreworkarea\FCUBSKeyStore.jks

Enter keystore password:<Enter the password used to access the
keystore>

Enter key password for <cvrhp0729>:<Enter the password used to access
the private key>

Certificate reply was installed in keystore
```

 The previous set of commands assumed the presence of the appropriate root CA certificate (in the chain of trust) in the Java Standard Trust store, i.e. in the cacerts file. If the CA issuing the identity certificate (for the Weblogic Server) does not have the root CA certificate in the Java Standard Trust store, one can opt to import the root CA certificate into cacerts, or into the identity store, depending on factors including trustworthiness of the CA, necessity of transporting the trust store across machine, among others.

4. Configuring Identity and Trust Stores for Weblogic

4.1 Enabling SSL on Oracle Weblogic Server

To configure SSL on Oracle Weblogic server, login in to the Admin Console and follow the steps given below:

1. Under 'Change Center', click the button 'Lock & Edit'.
2. Expand 'Servers' node.
3. Select the name of the server for which you want to enable SSL (example - exampleserver).
4. Go to 'Configuration' and select General' tab.
5. Select the option 'SSL Listen Port Enabled' and specify the SSL listen port.
6. Against 'Listen Address', specify the hostname of the machine in which the application server is installed.

4.2 Configuring Identity and Trust Stores

To configure the Identity and Trust stores in Oracle Weblogic Server, log in to the Admin Console of Weblogic Server.

1. Under 'Change Center', click the button 'Lock & Edit'.
2. Expand 'Servers' node.
3. Select the name of the server for which you want to configure the keystores (example - exampleserver).
4. Go to 'Configuration' and select 'Keystores' tab.
5. In the filed 'Keystores', select the method for storing and managing private keys/digital certificate pairs and trusted CA certificates. This choice should match the one made in Section 2 of this document (Choosing the Identity and Trust Stores).
6. In the 'Identity' section, provide the following details:
 - **Custom Identity Keystore File Name:** Fully qualified path to the Identity keystore.
 - **Custom Identity Keystore Type:** Set this attribute to JKS, the type of the keystore. If left blank, it is defaulted to JKS (Java KeyStore).
 - **Custom Identity Keystore PassPhrase:** The password you enter when reading or writing to the keystore. This attribute is optional or required depending on the type of keystore. All keystores require the passphrase in order to write to the keystore. However, some keystores do not require the passphrase to read from the keystore. Oracle Weblogic server only reads from the keystore. So whether or not you define this property depends on the requirements of the keystore.
7. In the 'Trust' section, provide the following details:

If you choose **Java Standard Trust**, specify the password used to access the trust store.

If you choose **Custom Trust**, the following attributes have to be provided:

- **Custom Trust Keystore:** The fully qualified path to the trust keystore.
- **Custom Trust Keystore Type:** Set this attribute to JKS, the type of the keystore. If left blank, it defaults to JKS (Java KeyStore).
- **Custom Trust Keystore Passphrase:** The password you enter when reading or writing to the keystore. This attribute is optional or required depending on the type of keystore. All keystores require the passphrase in order to write to the keystore. However, some keystores do not require the passphrase to read from the keystore. Oracle Weblogic Server only reads from the keystore. So, whether or not you define this property depends on the requirements of the keystore.



When identity and trust stores are of the JKS format, the passphrases are not required.

5. Setting SSL attributes for Managed Servers

5.1 Setting SSL Attributes for Private Key Alias and Password

To configure the private key alias and password, log in to the Oracle Weblogic Server Admin Console.

1. Under '**Change Center**', click the button 'Lock & Edit'.
2. Expand '**Servers**' node.
3. Select the name of the server for which you want to configure keystores (example - exampleserver).
4. Go to '**Configuration**' and select '**SSL**' tab.
5. Select 'Keystores' from '**Identity and Trust Locations**'.
6. Under 'Identity' section, specify the following details:
 - **Private Key Alias**: set this attribute to the alias name defined for the key pair when creating the key pair in the Identity keystore.
 - **Private Key Passphrase**: The password defined for the key pair (alias_password), at the time of its creation. . Confirm the password.
7. Click '**Save**'.
8. Under '**Change Center**', click '**Activate changes**'.
9. Go to **controls** tab, check the appropriate server and click '**Restart SSL**'. Confirm when it prompts.

6. Testing Configuration

6.1 Testing Configuration

Once the Oracle Weblogic has been configured for SSL, deploy the application in the usual manner. After deployment, you can test the application in SSL mode. To launch the application in SSL mode you need to enter the URL in the following format:

https://(Machine Name):(SSL_Listener_port_no)/(Context_root)



It is recommended that the Oracle FLEXCUBE UBS web application be accessed via the HTTPS channel, instead of the HTTP channel.

7. Creating Resources on Weblogic

7.1 Introduction

This document explains the steps to be executed to deploy the OBELCM application and gateway application in application server.

7.2 Resource Administration

This section deals with the process of resource administration on Oracle Weblogic.

All the resources mention in “Resources To be Created” document are need to be created before deployment. One example for each category is explained in the following subsections.

7.2.1 Creating Data Source

The method for creating data sources is explained under the following headings.

7.2.1.1 Prerequisites

You need to create the data source with OCI enabled. For this, download Oracle Instant Client and install it. The details are given below.

Package	Download Location	Remarks
Oracle Instant Client Package	http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html	Install Oracle Instant Client in a local directory. While configuring Weblogic for Windows or Unix/Linux box, you need to provide the directory path where Instant Client is installed.

You need to do the data source configuration with OCI driver enabled. The configurations are given below.

- Oracle Weblogic on Windows Box:
 - Set {ORACLE_HOME} in the environment variable.
 - Update the Environment Variable Path as {ORACLE_HOME}/Instance Client. This is required to load all the .dll files.
 - Ensure that the *ojdbc*.jar* file in {WL_HOME}/server/lib/*ojdbc*.jar* is the same as the file {ORACLE_HOME}/jdbc/lib/*ojdbc*.jar*. This is required for ensuring compatibility.
 - Update PATH in *StartWebLogic.bat* or in *setDomainEnv.bat*. This must be the path of directory where Oracle Instant Client is installed.
- Oracle Weblogic on Unix/Linux Box:

- Set `{ORACLE_HOME}` in the environment variable.
- Update the environment variable `LD_LIBRARY_PATH` as `{ORACLE_HOME}/lib`. This is to load all the `.so` files.
- Ensure that the `ojdbc*.jar` file in `{WL_HOME}/server/lib/ojdbc*.jar` is the same as the file `{ORACLE_HOME}/jdbc/lib/ojdbc*.jar`. This is to ensure compatibility.
- Update `LD_LIBRARY_PATH` in `StartWeblogic.sh` or in `setDomainEnv.sh`. This must be the path of directory where Oracle Instant Client is installed.
- If you are still not able to load the `.so` files, then you need to update the `EXTRA_JAVA_PROPERTIES` by setting `Djava.library.path` as `{ORACLE_HOME}/lib` in `StartWebLogic.sh` or in `setDomainEnv.sh`.

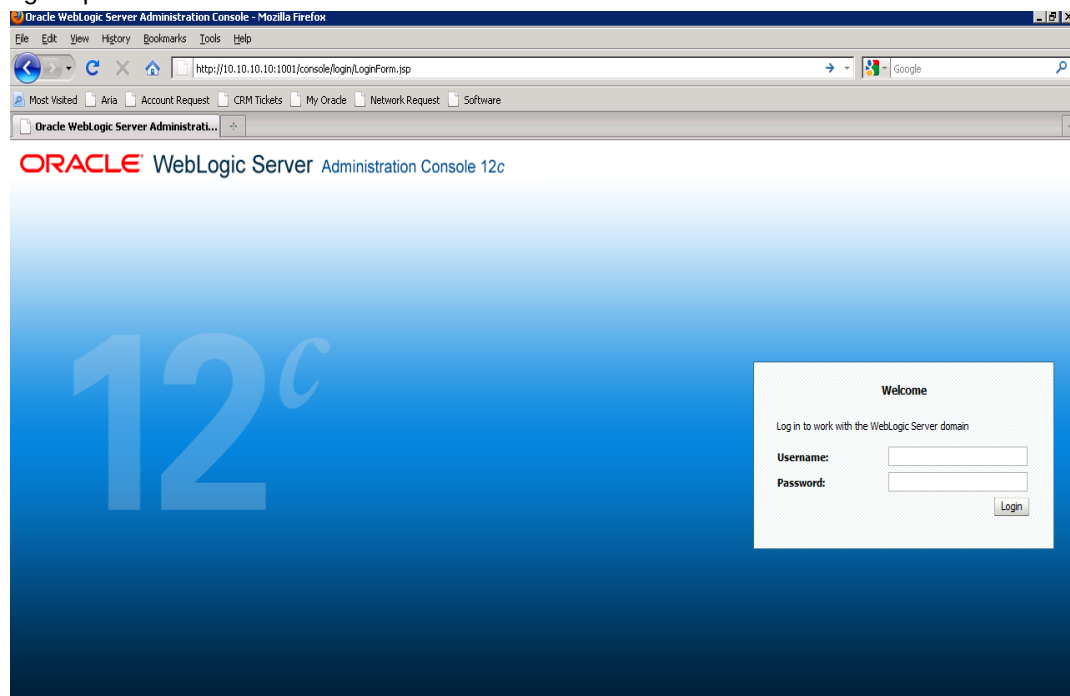
7.2.1.2 XA Enabled Data Source

Follow the steps given below:

1. Start the Administrative Console of Weblogic application server. You can start this by entering Oracle Weblogic Admin Console URL in the address bar in an internet browser.

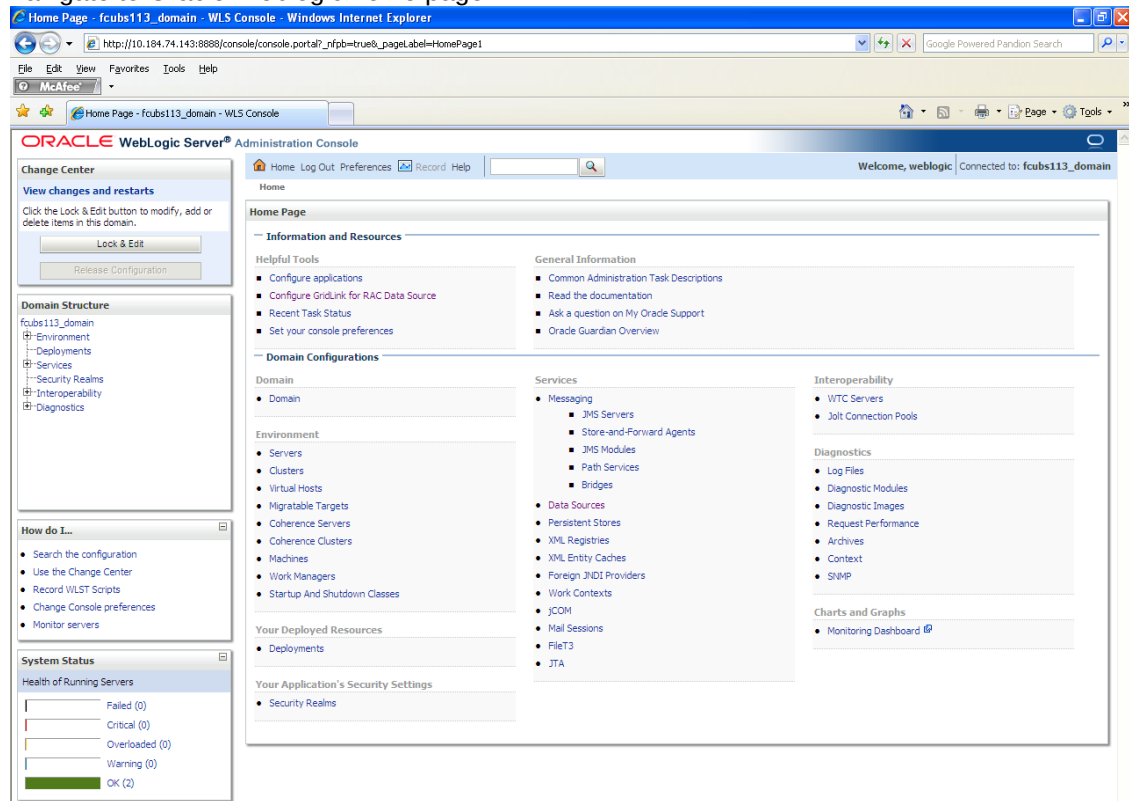
`http://10.10.10.10:1001/console`

Eg: `http://10.10.10.10:1001/console`



2. Specify the Weblogic administrator user name and password. Click 'Log In'.

3. Navigate to Oracle Weblogic home page.



4. Click 'LOCK & EDIT'.

Following screen is displayed:

The screenshot displays the Oracle WebLogic Server Administration Console in a Windows Internet Explorer browser. The page title is "Summary of JDBC Data Sources - fcubs113_domain - WLS Console - Windows Internet Explorer". The URL in the address bar is "http://10.184.74.143:8888/console/console.portal?_rfpb=true&_pagelabel=http://10.184.74.143:8888/console/console.portal?_rfpb=true&_pagelabel=GlobalJDBCDataSource".

The console interface includes a top navigation bar with "Home", "Log Out", "Preferences", "Record", and "Help" links. A welcome message "Welcome, weblogic" and connection status "Connected to: fcubs113_domain" are displayed. The main content area is titled "Summary of JDBC Data Sources" and has tabs for "Configuration" and "Monitoring".

On the left side, there is a "Change Center" section with "View changes and restarts" and "Release Configuration" buttons. Below it is the "Domain Structure" tree, which shows the hierarchy: "fcubs113_domain" > "Environment" > "Deployments" > "Services" > "Messaging" > "Data Sources".

The "How do I..." section provides links to create or delete JDBC data sources. The "System Status" section shows the health of running servers, with a green bar indicating "OK (2)".

The main content area contains a description of JDBC data sources and a table titled "Data Sources (Filtered - More Columns Exist)". The table has columns for "Name", "Type", "JNDI Name", and "Targets". It lists two data sources: "FCUBS113" and "FCUBS113Branch", both of type "Generic".

Name	Type	JNDI Name	Targets
FCUBS113	Generic	jdbc/fgdevDS	ManagedServer1
FCUBS113Branch	Generic	jdbc/fgdevDSBranch	ManagedServer1

5. Expand 'Services' and then 'Data Sources' under it. Click 'Lock & Edit' button.

The screenshot shows the Oracle WebLogic Server Administration Console. The 'Domain Structure' tree on the left is expanded to 'Services' > 'Data Sources'. The 'Change Center' on the left shows 'Lock & Edit' and 'Release Configuration' buttons. The main content area displays the 'Summary of JDBC Data Sources' page, which includes a table of existing data sources.

Type	JNDI Name	Targets
Generic	jdbc/fgdevOS	ManagedServer1
Generic	jdbc/fgdevOSBranch	ManagedServer1

6. To create a new data source, click 'New' and select 'Generic Data Source'. The following screen is displayed.

The screenshot shows the 'Create a New JDBC Data Source' page in the Oracle WebLogic Server Administration Console. The 'JDBC Data Source Properties' section is visible, with fields for Name, JNDI Name, and Database Type.

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.
* Indicates required fields

What would you like to name your new JDBC data source?
Name: FLEXTTEST.WORLD

What JNDI name would you like to assign to your new JDBC Data Source?
JNDI Name: FLEXTTEST.WORLD

What database type would you like to select?
Database Type: Oracle

7. Specify the following details:

JDBC Datasource Name	Name of the data source
JNDI Name	JNDI name which will be used for lookup
Database Type	Type of the database which is Oracle

8. Click 'Next'.

The following screen is displayed:

The screenshot shows a web application interface for creating a new JDBC data source. At the top is a navigation bar with links: Home, Log Out, Preferences, Record, and Help. Below the navigation bar is a breadcrumb trail: Home > Summary of Services > Summary of JDBC Data Sources. The main heading is 'Create a New JDBC Data Source'. Below this heading are four buttons: Back, Next, Finish, and Cancel. The section is titled 'JDBC Data Source Properties' and contains the text: 'The following properties will be used to identify your new JDBC data source.' Below this text are two fields: 'Database Type' with the value 'Oracle' and 'Database Driver' with the value '*Oracle's Driver (Thin XA) for Service connections; Versions:Any'. At the bottom of the form are four buttons: Back, Next, Finish, and Cancel.

Home Log Out Preferences Record Help

Home > Summary of Services > Summary of JDBC Data Sources

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

Database Type: Oracle

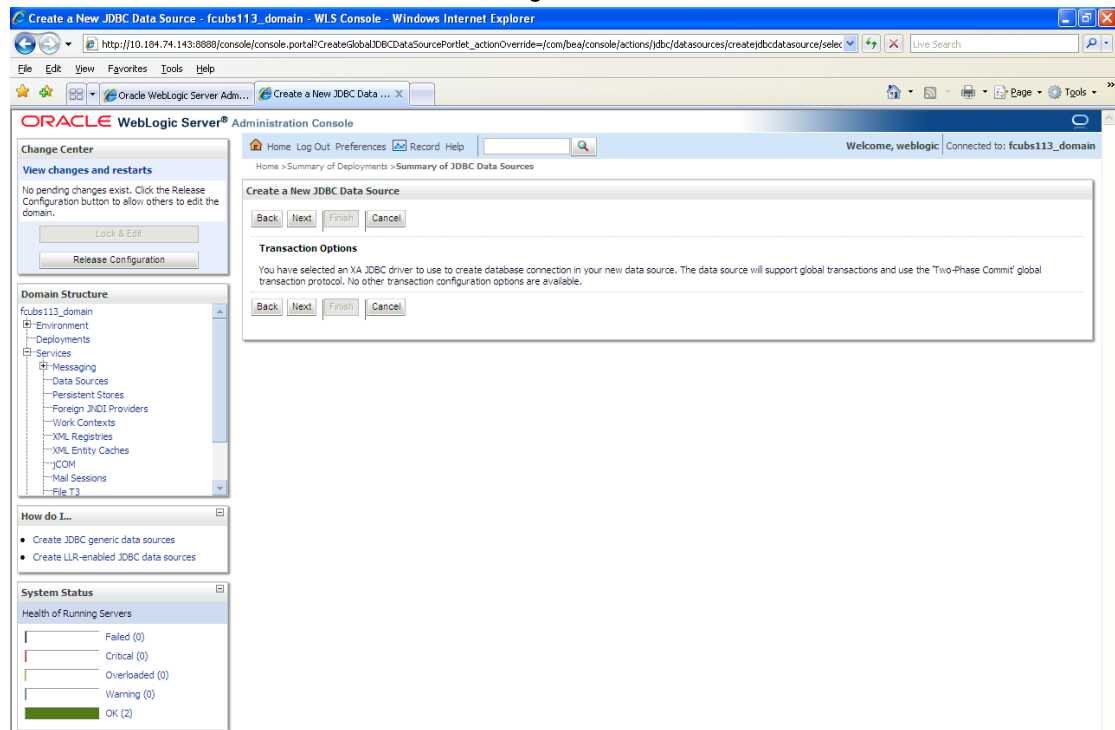
What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by O

Database Driver: *Oracle's Driver (Thin XA) for Service connections; Versions:Any

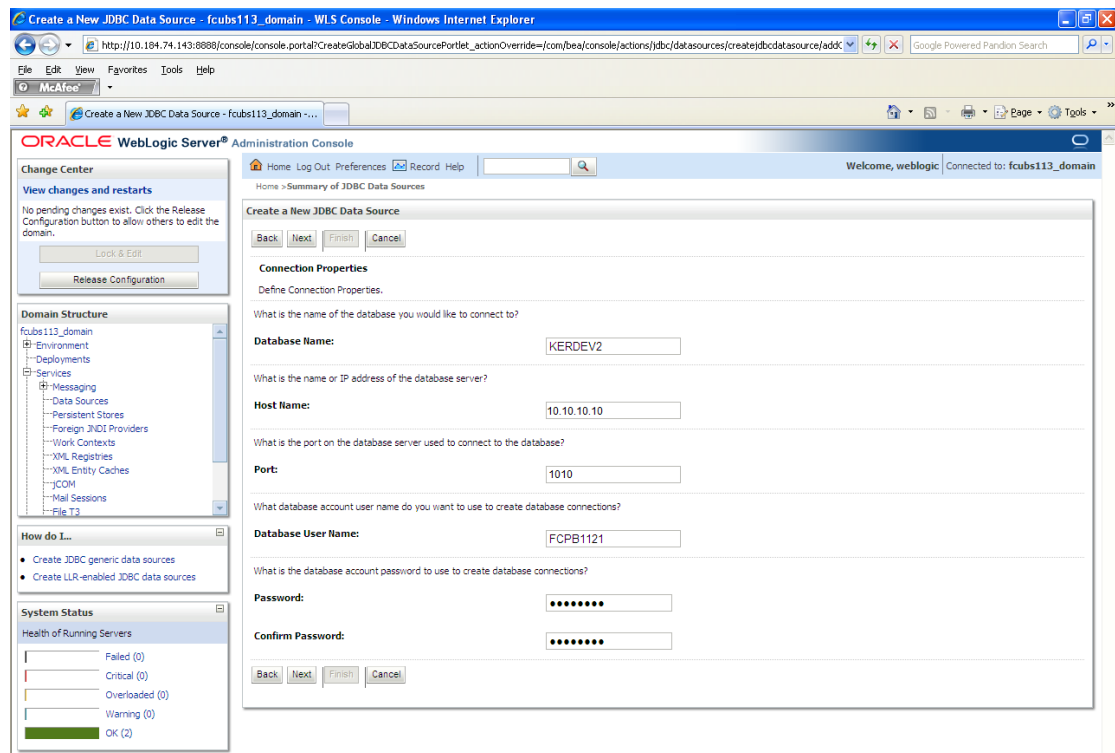
Back Next Finish Cancel

Click next.

9. Select the database driver as shown in the figure. Click 'Next'.



10. Specify the Database Name, Host Name, Port of the database server to connect, Database User Name and Password. Confirm the password.



11. Click 'Next'.

The following screen is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The main window is titled 'Create a New JDBC Data Source - DefaultDomain - WLS Console - Windows Internet Explorer'. The URL in the address bar is 'http://127.0.0.1:7101/console/console.portal?CreateGlobalJDBCDataSourcePortlet_actionOverrides=/com/bee/console/actions/jdbc/datasources/cr'. The console shows the 'Create a New JDBC Data Source' wizard. The 'Test Database Connection' tab is selected, showing the following fields:

- Driver Class Name:** oracle.jdbc.OracleDriver
- URL:** jdbc:oracle:thin:@10.10.10.10
- Database User Name:** FCPB1121
- Password:** (masked with dots)
- Confirm Password:** (masked with dots)

The 'Test Configuration' tab is also visible, showing the 'Test Table Name' field.

12. Specify the Driver Class Name (Eg: oracle.jdbc.OracleDriver).

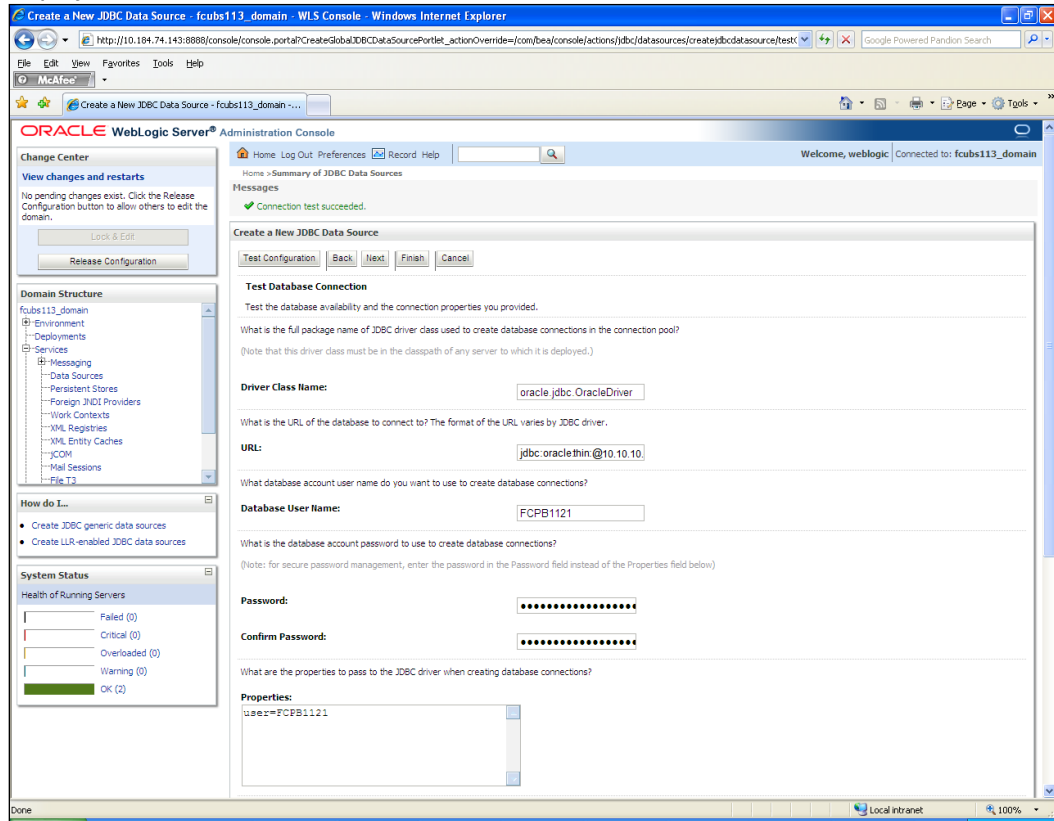
13. Specify the URL.

14. jdbc:oracle:thin:@10.10.10.10:1001<INSTANCE_NAME>Specify the Database Username (Eg: FCPB1121) and password.

15. Confirm the password.

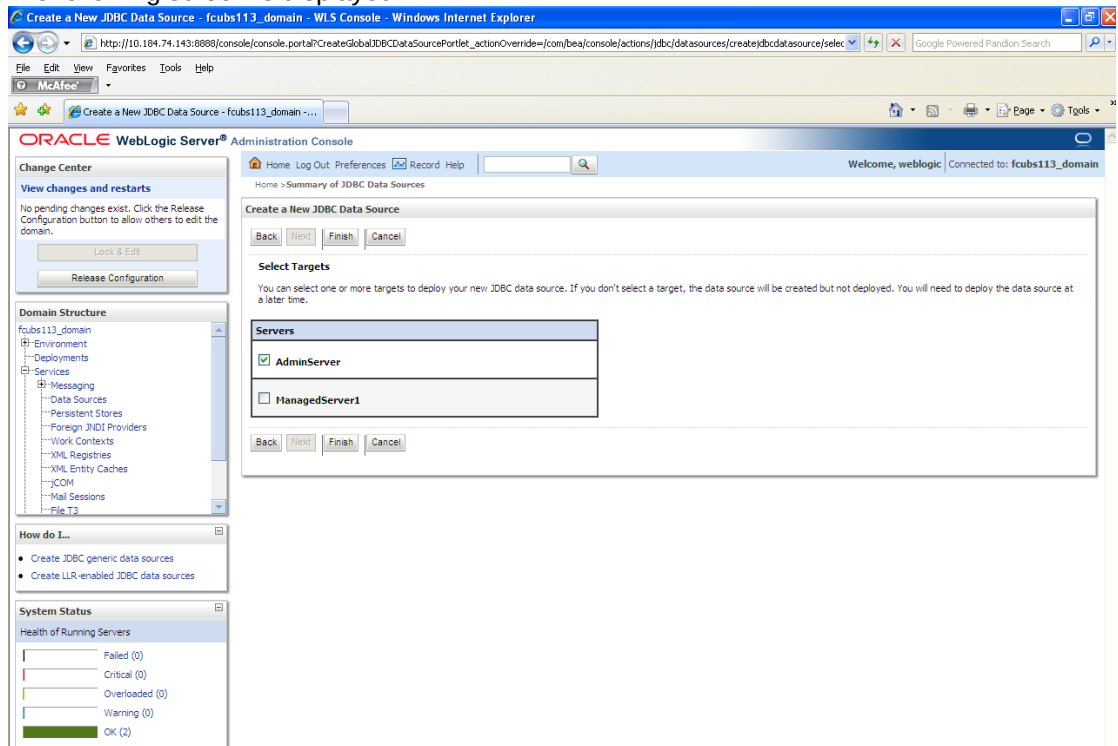
16. Click 'Test Configuration' tab.

If the connection is established successfully, the message 'Connection test succeeded' is displayed.

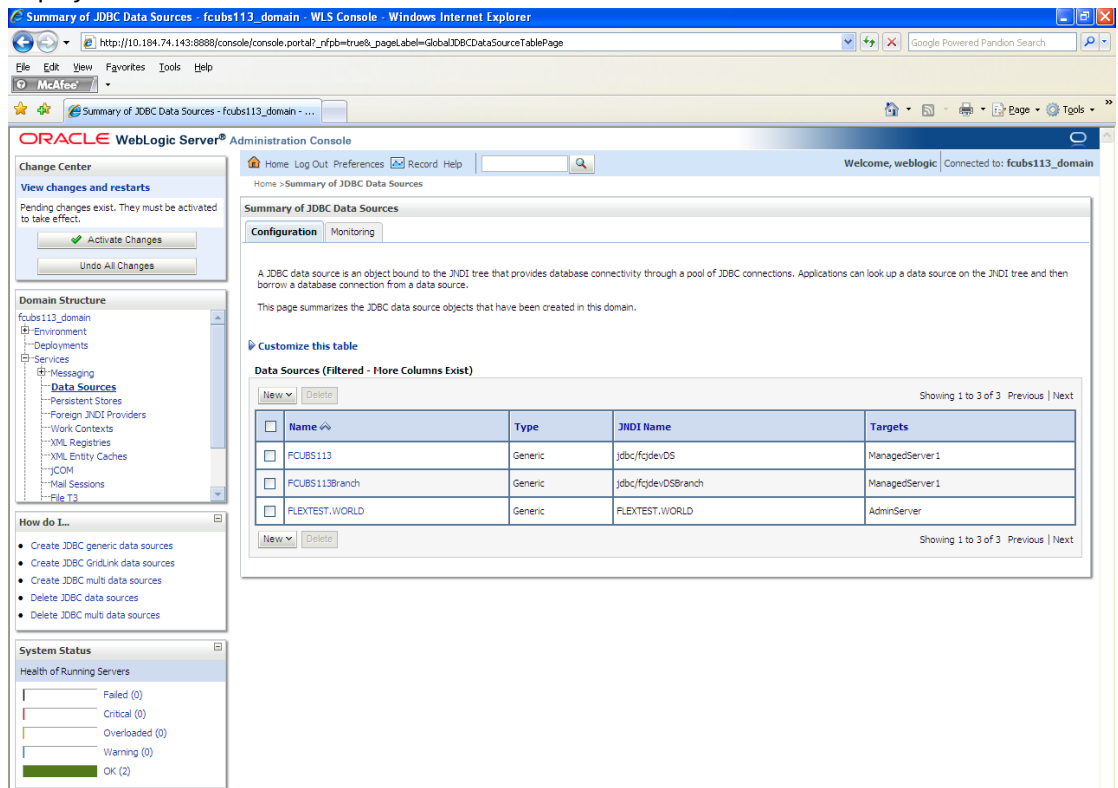


17. Click 'Next'.

The following screen is displayed:



18. Check the boxes against the required servers. Click 'Finish'. The following screen is displayed:



19. Click 'Activate Changes' button. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

Summary of JDBC Data Sources - fcubs113_domain - WLS Console - Windows Internet Explorer

http://10.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=http://10.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=GlobalJDBCDataSource

McAfee

Summary of JDBC Data Sources - fcubs113_domain - ...

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcubs113_domain

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

fcubs113_domain

- Environment
- Deployments
- Services
 - Messaging
 - Data Sources**
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts
 - XML Registries
 - XML Entity Caches
 - JCOM
 - Mail Sessions
 - File T3

How do I...?

- Create JDBC generic data sources
- Create JDBC GridLink data sources
- Create JDBC multi data sources
- Delete JDBC data sources
- Delete JDBC multi data sources

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

Summary of JDBC Data Sources

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

Customize this table

Data Sources (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete

	Name	Type	JNDI Name	Targets
☐	FCUBS113	Generic	jdbc/fcdevDS	ManagedServer1
☐	FCUBS113Branch	Generic	jdbc/fcdevDSBranch	ManagedServer1
☐	FLEXTTEST.WORLD	Generic	FLEXTTEST.WORLD	AdminServer

New Delete

Showing 1 to 3 of 3 Previous Next

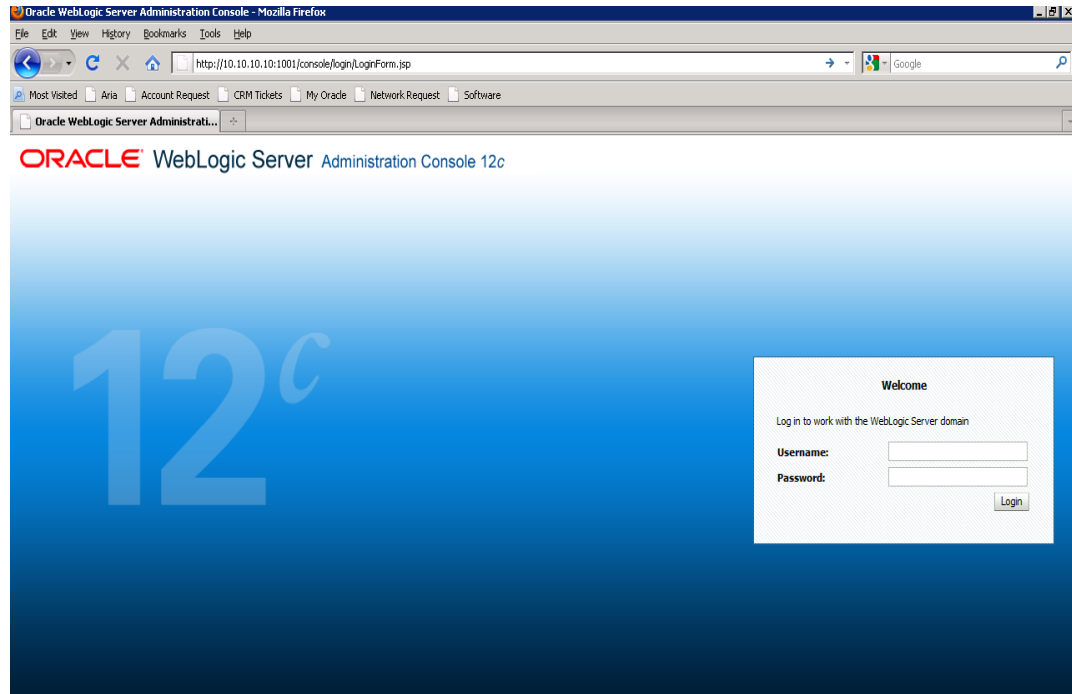
20. The datasource has been created.

21. Refer to "Resources_To_Be_Created.doc" for the list of XA datasources to be created.

7.2.1.3 Non-XA Enabled Data Source

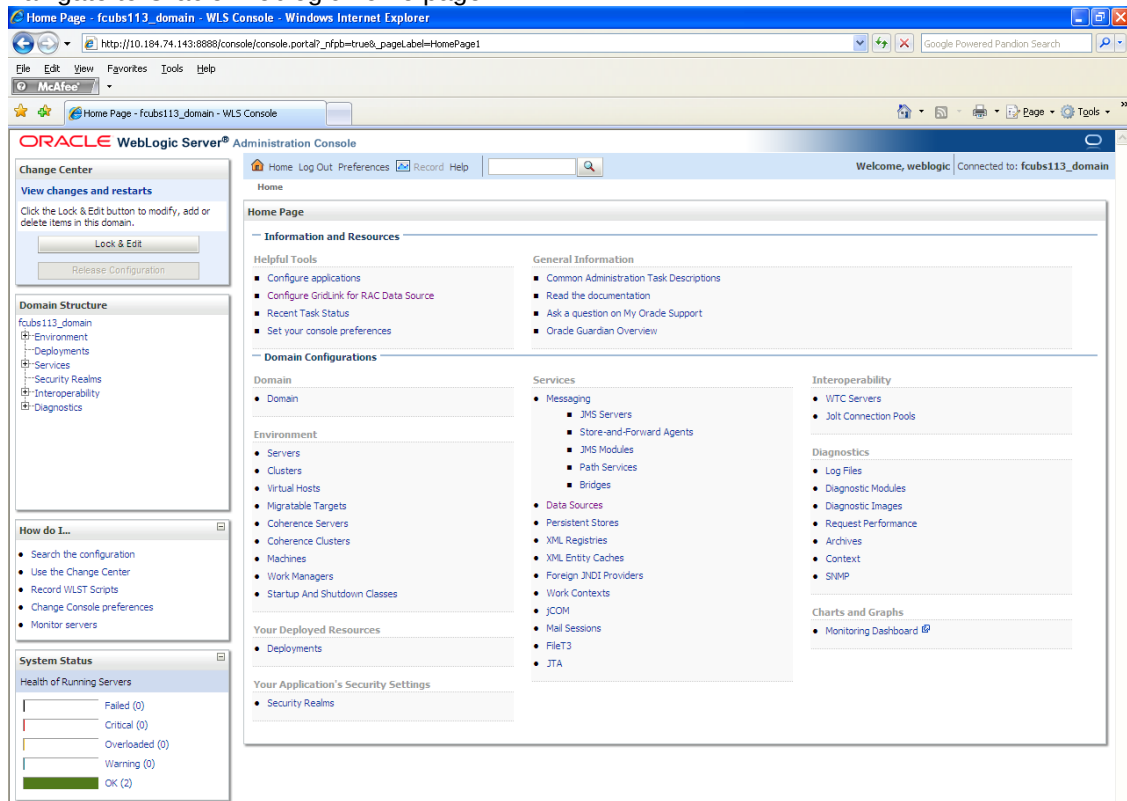
1. Follow the steps given below: Start the Administrative Console of Weblogic application server. You can start this by entering Oracle Weblogic Admin Console URL in the address bar in an internet browser.

http:10.10.10.10:1001/console Eg: http://10.10.10.10:1001/console



2. Specify the Weblogic administrator user name and password. Click 'Log In'.

3. Navigate to Oracle Weblogic home page.



The following screen is displayed:

The screenshot displays the Oracle WebLogic Server Administration Console in a Windows Internet Explorer browser window. The page title is "Summary of JDBC Data Sources - fcubs113_domain - WLS Console". The browser address bar shows a URL starting with "http://110.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=http://110.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=GlobalJDBCDataSource".

The console interface includes a top navigation bar with "Home", "Log Out", "Preferences", "Record", and "Help" links. A welcome message "Welcome, weblogic" and connection status "Connected to: fcubs113_domain" are displayed. The main content area is titled "Summary of JDBC Data Sources" and has two tabs: "Configuration" (selected) and "Monitoring".

On the left side, there is a "Change Center" panel with "View changes and restarts" and "Release Configuration" buttons. Below it is the "Domain Structure" tree, which shows the hierarchy: fcubs113_domain > Environment > Deployments > Services > Messaging > Data Sources. The "How do I..." panel lists tasks such as "Create JDBC generic data sources" and "Delete JDBC multi data sources". The "System Status" panel shows the "Health of Running Servers" with a bar chart indicating 2 OK servers.

The main content area contains a description of JDBC data sources and a table titled "Data Sources (Filtered - More Columns Exist)". The table has columns for "Name", "Type", "JNDI Name", and "Targets". It lists two data sources: "FCUBS113" and "FCUBS113Branch", both of type "Generic".

Name	Type	JNDI Name	Targets
FCUBS113	Generic	jdbc/fgdevDS	ManagedServer1
FCUBS113Branch	Generic	jdbc/fgdevDSBranch	ManagedServer1

4. Expand 'Services' and then 'Data Sources' under it. Click 'Lock & Edit' button.

The screenshot shows the Oracle WebLogic Server Administration Console. The 'Domain Structure' tree on the left is expanded to 'Services' > 'Data Sources'. The 'Change Center' on the left shows 'View changes and restarts' with a 'Lock & Edit' button. The main content area is titled 'Summary of JDBC Data Sources' and includes a 'Configuration' tab. A table lists the data sources:

	Type	JNDI Name	Targets
Generic Data Source	Generic	jdbc/fojdevOS	ManagedServer1
GridLink Data Source	Generic	jdbc/fojdevOSBranch	ManagedServer1

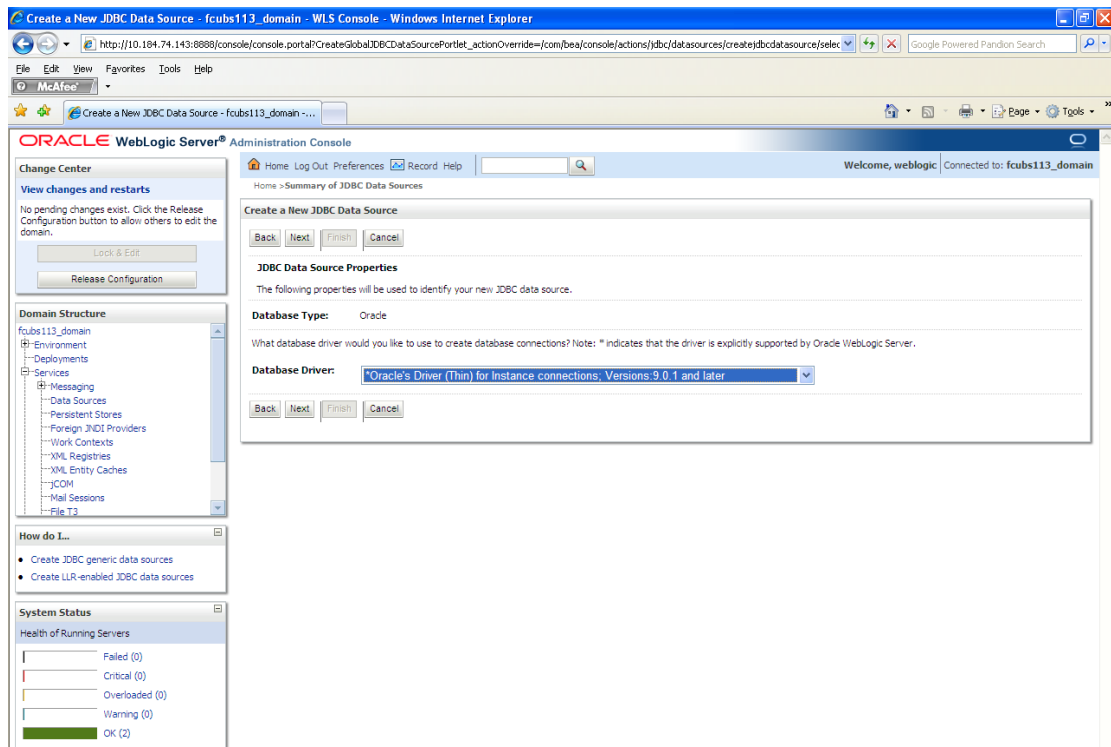
5. To create a new data source, click 'New' and select 'Generic Data Source'.

The screenshot shows the 'Create a New JDBC Data Source' wizard in the Oracle WebLogic Server Administration Console. The 'Name' field is set to 'FCUBSDS' and the 'JNDI Name' is set to 'jdbc/fojdevOS'. The 'Database Type' is set to 'Oracle'.

6. Specify the following details:

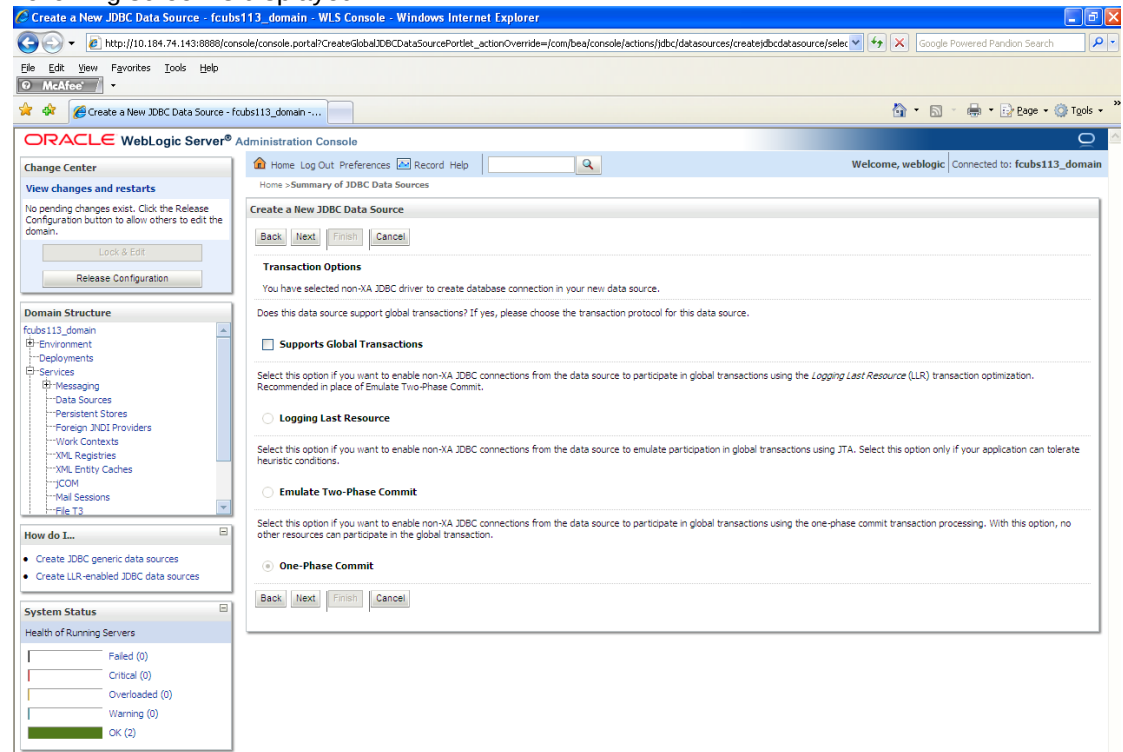
JDBC Datasource Name	Name of the Datasource
JNDI Name	JNDI for lookup
Database Type	Oracle

7. Click 'Next'.

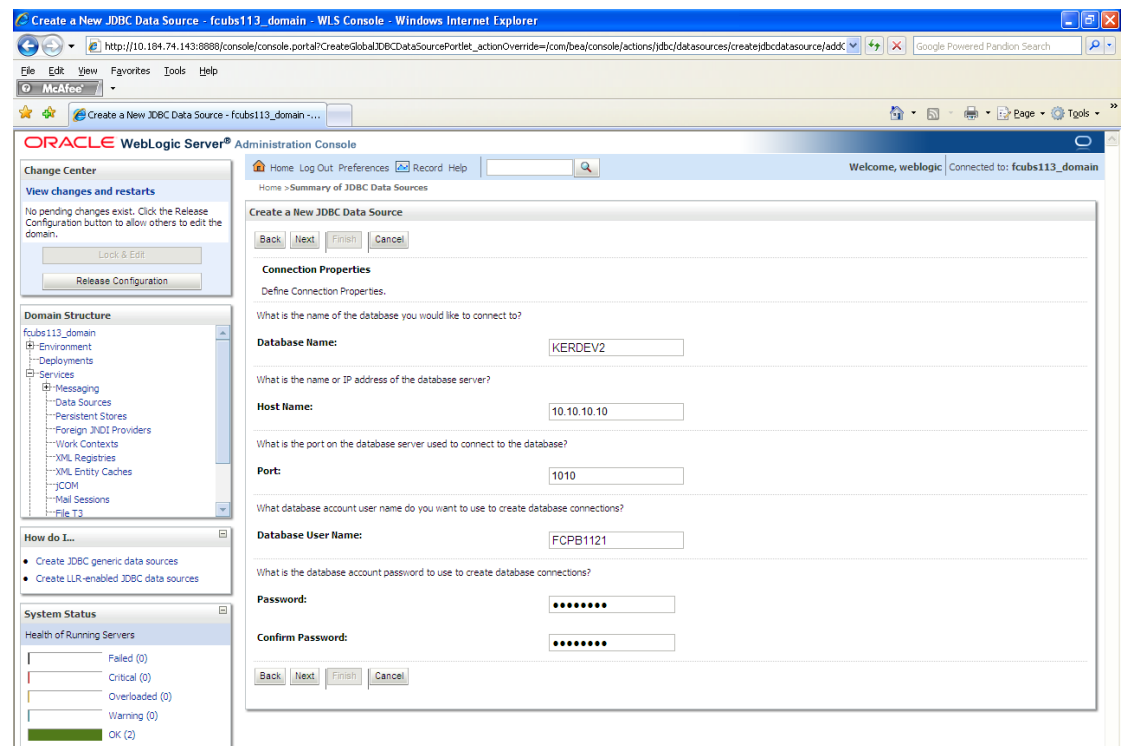


8. Select the database driver as shown in the figure. Click 'Next'.

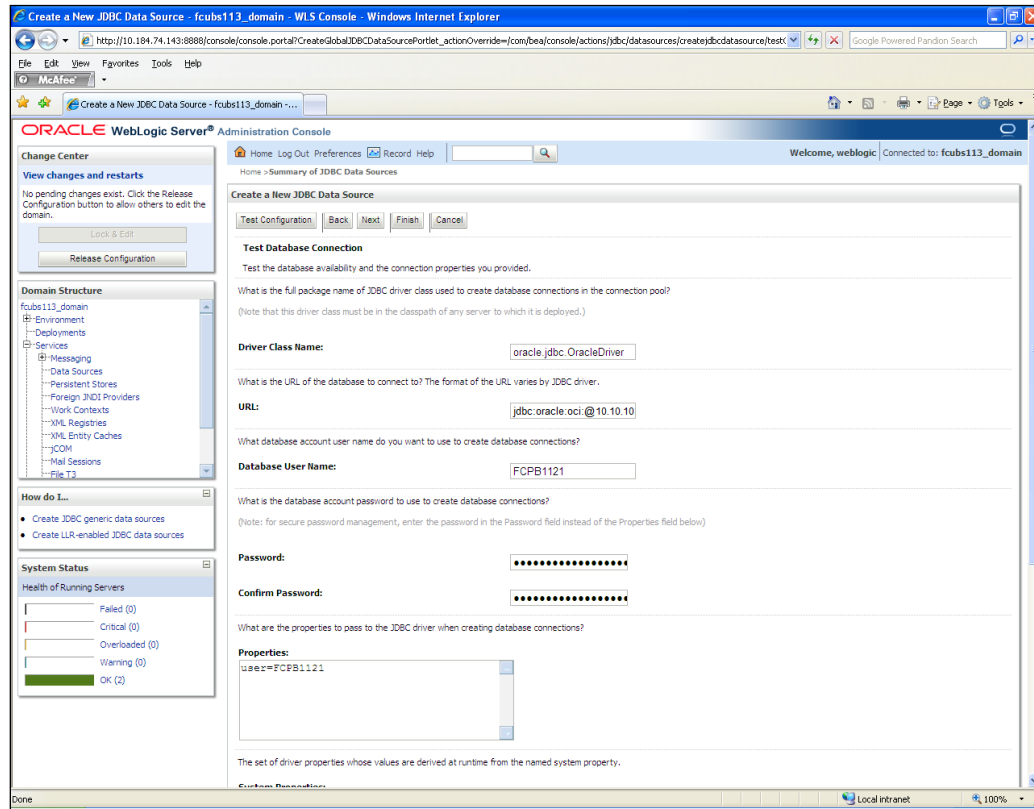
Following screen is displayed:



9. Select Logging Last Resource then uncheck 'Support Global Transactions'. Click 'Next'. The following screen is displayed:



10. This screen defines the connection properties. Set the details as given below:
11. Specify the Database Name, Host Name, Port of the database server to connect, Database User Name and Password. Confirm the password.
12. Click 'Next'. The following screen is displayed.



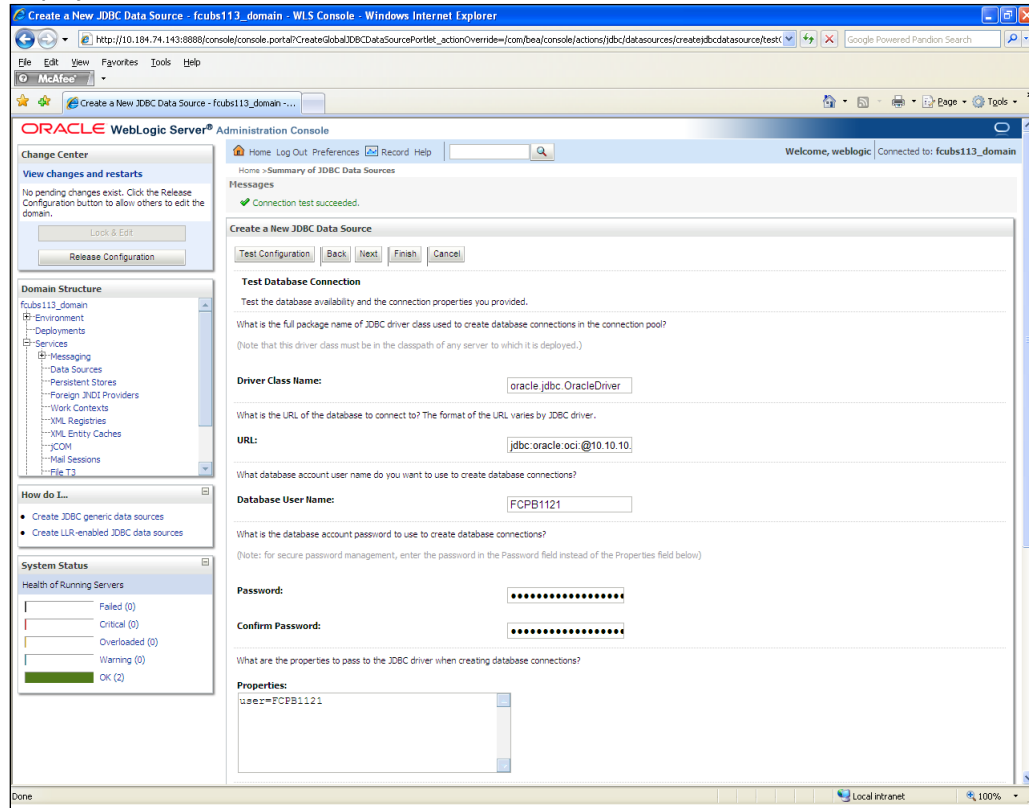
13. Specify the Driver Class Name (Eg: oracle.jdbc.OracleDriver)
14. Specify the URL.

Default URL: jdbc:oracle:thin:@10.10.10.10:1001:<INSTANCE_NAME>.

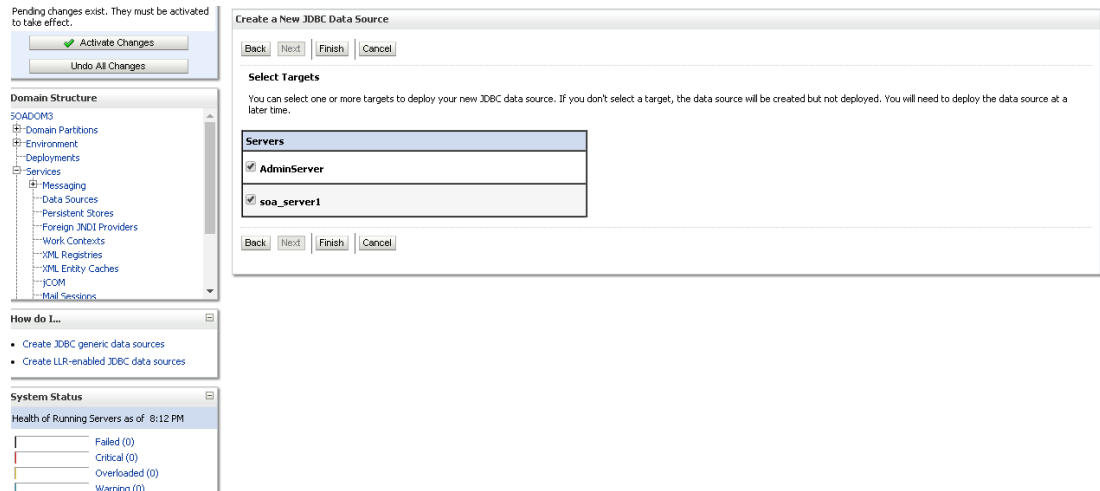
Change the default URL to: jdbc:oracle:oci:@10.10.10.10:1010:<INSTANCE_NAME>

15. Specify the Database Username (Eg: testdb) and password.
16. Confirm the password.
17. Click 'Test Configuration' tab.

18. If the connection is established successfully, the message 'Connection test succeeded' is displayed.



19. Click 'Next'. The following screen is displayed:



20. Check the boxes against the required servers(for data source jdbc/fcjdeVDS, it is mandatory to check the admin server as well as application-deployed server). Click 'Finish'. The following screen is displayed:

The screenshot shows the Oracle WebLogic Server Administration Console in a web browser. The page title is "Summary of JDBC Data Sources - fcubs113_domain - WLS Console - Windows Internet Explorer". The URL is "http://10.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=GlobalJDBCDataSourceTablePage". The page has a navigation bar with "Home", "Log Out", "Preferences", "Record", and "Help". The main content area is titled "Summary of JDBC Data Sources" and has tabs for "Configuration" and "Monitoring". A description states: "A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source. This page summarizes the JDBC data source objects that have been created in this domain." Below this is a section "Customize this table" with a table of data sources. The table has columns: Name, Type, JNDI Name, and Targets. It shows three data sources: FCUBS113, FCUBS113Branch, and FLEXTTEST.WORLD. The left sidebar contains a "Change Center" with "Activate Changes" and "Undo All Changes" buttons, a "Domain Structure" tree, and a "System Status" section showing "Health of Running Servers" with a green bar indicating "OK (2)".

Name	Type	JNDI Name	Targets
FCUBS113	Generic	jdbc/fcjdeVDS	ManagedServer1
FCUBS113Branch	Generic	jdbc/fcjdeVDSBranch	ManagedServer1
FLEXTTEST.WORLD	Generic	FLEXTTEST.WORLD	AdminServer

21. Click 'Activate Changes' button. Click 'Activate Changes' button on the left pane.

The message 'All the changes have been activated. No restarts are necessary' is displayed.

Summary of JDBC Data Sources - fcubs113_domain - WLS Console - Windows Internet Explorer

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcubs113_domain

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

fcubs113_domain

- Environment
- Deployments
- Services
 - Messaging
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts
 - XML Registries
 - XML Entity Caches
 - JCOM
 - Mail Sessions
 - File T3

How do I...?

- Create JDBC generic data sources
- Create JDBC GridLink data sources
- Create JDBC multi data sources
- Delete JDBC data sources
- Delete JDBC multi data sources

System Status

Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (2)

Summary of JDBC Data Sources

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

Customize this table

Data Sources (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete

Showing 1 to 3 of 3 Previous Next

☐	Name	Type	JNDI Name	Targets
☐	FCUBS113	Generic	jdbc/fcdevDS	ManagedServer1
☐	FCUBS113Branch	Generic	jdbc/fcdevDSBranch	ManagedServer1
☐	FLEXTTEST.WORLD	Generic	FLEXTTEST.WORLD	AdminServer

New Delete

Showing 1 to 3 of 3 Previous Next

22. 'FCUBSDS' datasource is created.

23. Click the datasource, and then click on the Connection Pool tab.

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help Welcome, weblogic Connected to: DefaultDomain

Home > Summary of Services: JDBC > Summary of JDBC Data Sources > fcjdevDS > Summary of JDBC Data Sources > fcjdevDS

Settings for fcjdevDS

Configuration Targets Monitoring Control Security Notes

General **Connection Pool** Transaction Diagnostics Identity Options

Save

The connection pool within a JDBC data source contains a group of JDBC connections that applications reserve, use, and then return to the pool. The connection pool and the connections within it are created when the connection pool is registered, usually when starting up WebLogic Server or when deploying the data source to a new target.

Use this page to define the configuration for this data source's connection pool.

URL: jdbc:oracle:oci:@10.10.10.10:1010:CPU11G2 The URL of the database to connect to. The format of the URL varies by JDBC driver. [More Info...](#)

Driver Class Name: oracle.jdbc.OracleDriver The full package name of JDBC driver class used to create the physical database connections in the connection pool. (Note that this driver class must be in the classpath of any server to which it is deployed.) [More Info...](#)

Properties: user=FC1202tune The list of properties passed to the JDBC driver that are used to create physical database connections. For example: server=dbserver1. List each property=value pair on a separate line. [More Info...](#)

Password: The password attribute passed to the JDBC driver when creating physical database connections. [More Info...](#)

Confirm Password:

Initial Capacity: 1 The number of physical connections to create when creating the connection pool. [More Info...](#)

Maximum Capacity: 15 The maximum number of physical connections that this connection pool can contain. [More Info...](#)

Capacity Increment: 1 The number of connections created when new connections are added to the connection pool. [More Info...](#)

Statement Cache Type: LRU The algorithm used for maintaining the prepared statements stored in the statement cache. [More Info...](#)

Statement Cache Size: 200 The number of prepared and callable statements stored in the cache. (This may increase server performance.) [More Info...](#)

Advanced

Save

24. Select the statement cache type as 'LRU'.

25. Specify the statement cache size as '200'.

26. Click 'Save'.

27. Refer to "Resources_To_Be_Created.doc" for the list of Non-XA datasources to be created.



Note the following

- You need to create another data source for Oracle FCUBS with the JNDI name '<Non-XA FCUBS HOST JNDI name>_ASYNc' for batch process. For example, if the Oracle FCUBS HOST Non XA data source JNDI name is 'jdbc/fcjdevDS', then you need to create another data source for FCUBS with the JNDI name 'jdbc/fcjdevDS_ASYNc'.
- While creating a branch using the 'Branch Parameters Maintenance' (STDBRANC) screen, if you have created a data source for the branch, then you need to create a corresponding ASYNc data source with the JNDI name '<Non-XA FCUBS BRANCH JNDI name>_ASYNc'.
- You need to create another data source for Oracle ELCM with the JNDI name '<ENTITY_ID JNDI name>_EL'. For example, if the Oracle FCUBS HOST Non XA data source JNDI name is 'jdbc/fcjdevDS', then you need to create another data source for FCUBS with the JNDI name 'jdbc/fcjdevDS_EL'. Ensure that the checkbox "Support Global Transaction" is checked and select "Emulate Two-Phase Commit" for ELCM data source.

- The following are the list of datasources that can be created depending on the requirement. Please refer to the document Resources_to_be_created.docx for more information -

Purpose	Datasource Name	JNDI Name
FCUBS	FCUBS Data source	jdbc/fcjdevDS
SMS	SMS Datasource	jdbc/fcjdevDSSMS
VAMS	VAMS_DATASOURCE	jdbc/fcvamDS
Gateway	FLEXTTEST.WORLD	FLEXTTEST.WORLD
Async data source	FCUBS DS_ASYNC	jdbc/fcjdevDS_ASYNC
Scheduler	Scheduler_Datasource	jdbc/fcjSchedulerDS

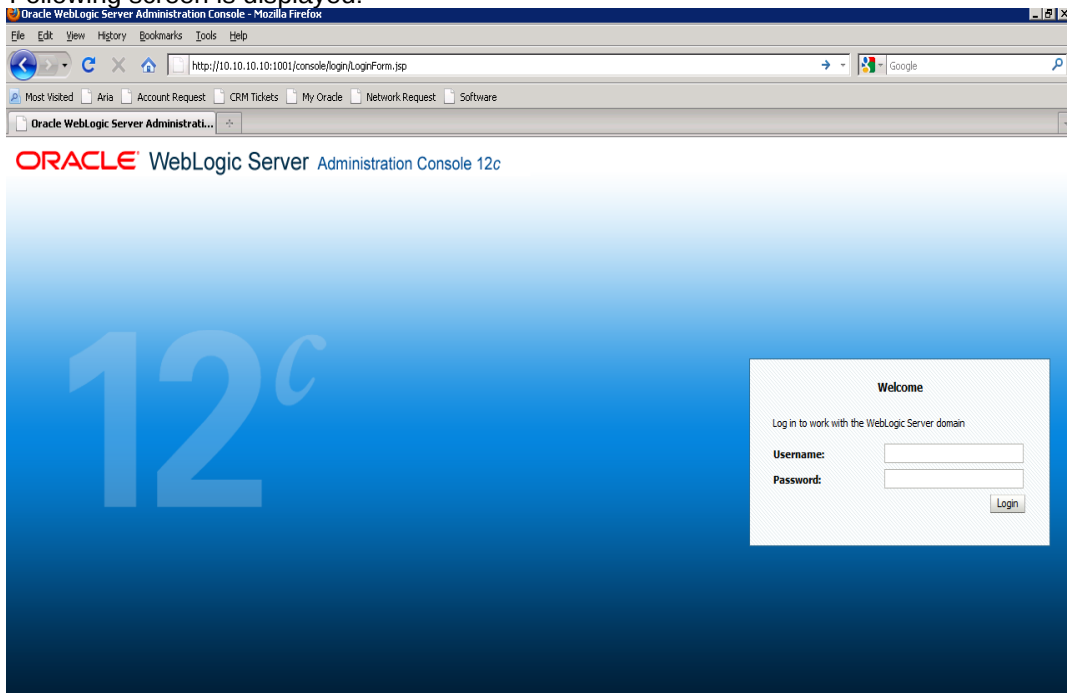
7.2.2 JMS Server Creation

Follow the steps given below:

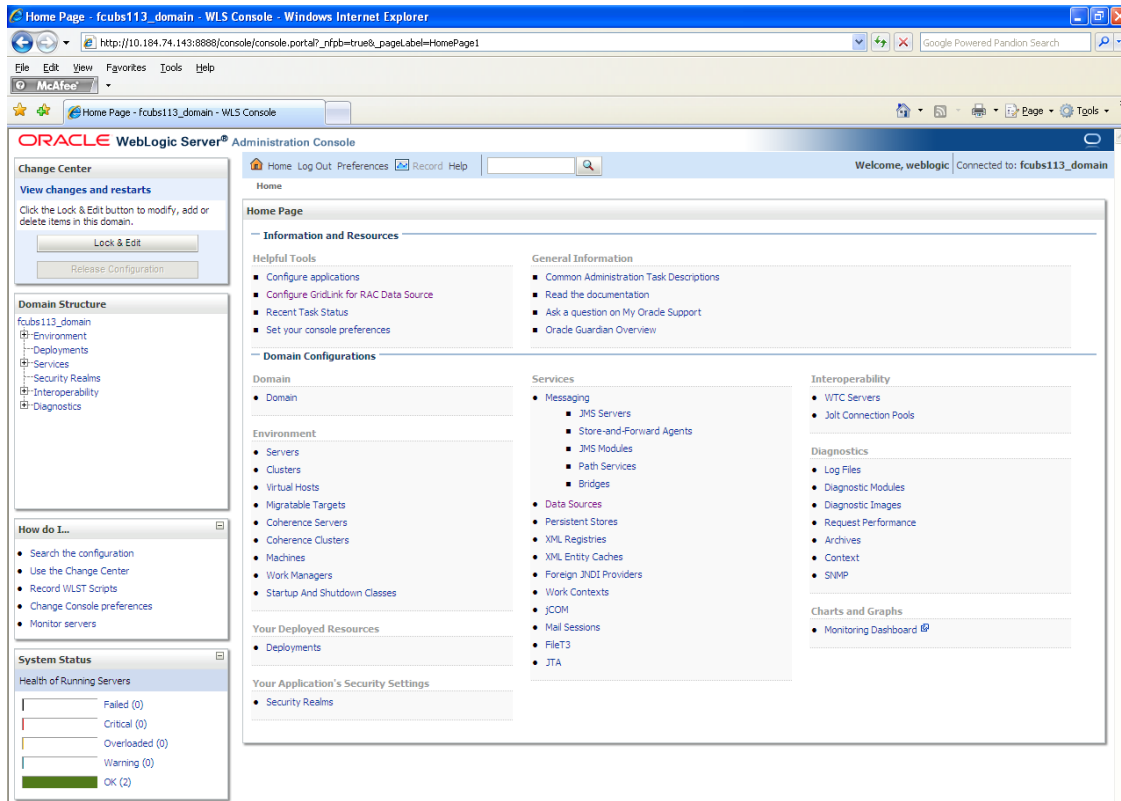
1. Start the Administrative Console of Weblogic application server. You can start this by entering Oracle Weblogic Admin Console URL in the address bar in an internet browser.

<http://10.10.10.10:1001/console> Eg: <http://10.10.10.10:1001/console>

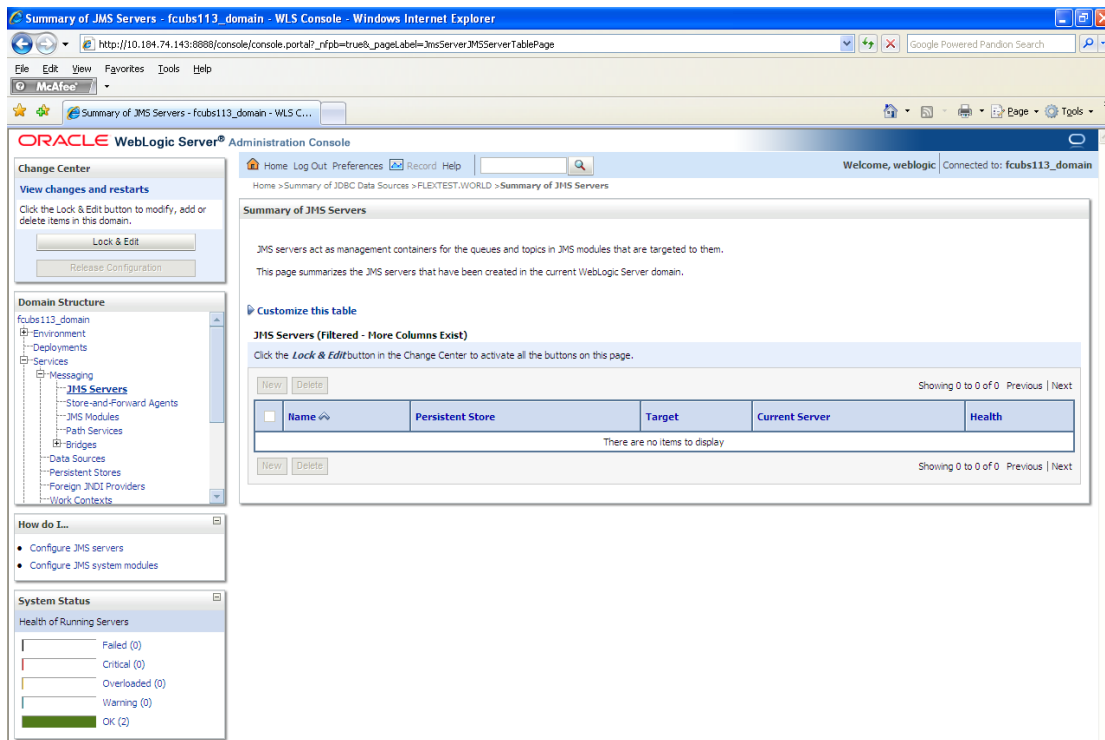
Following screen is displayed:



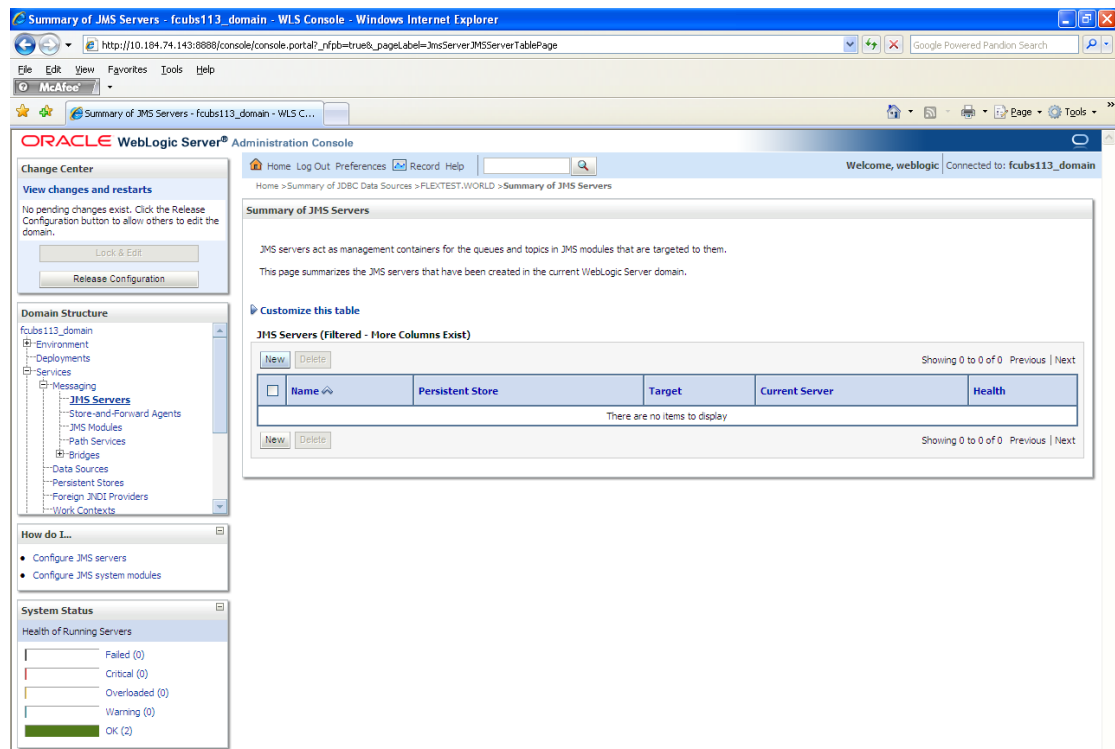
2. Specify the Weblogic administrator user name and password. Click 'Log In'.
3. Navigate to Oracle Weblogic home page.



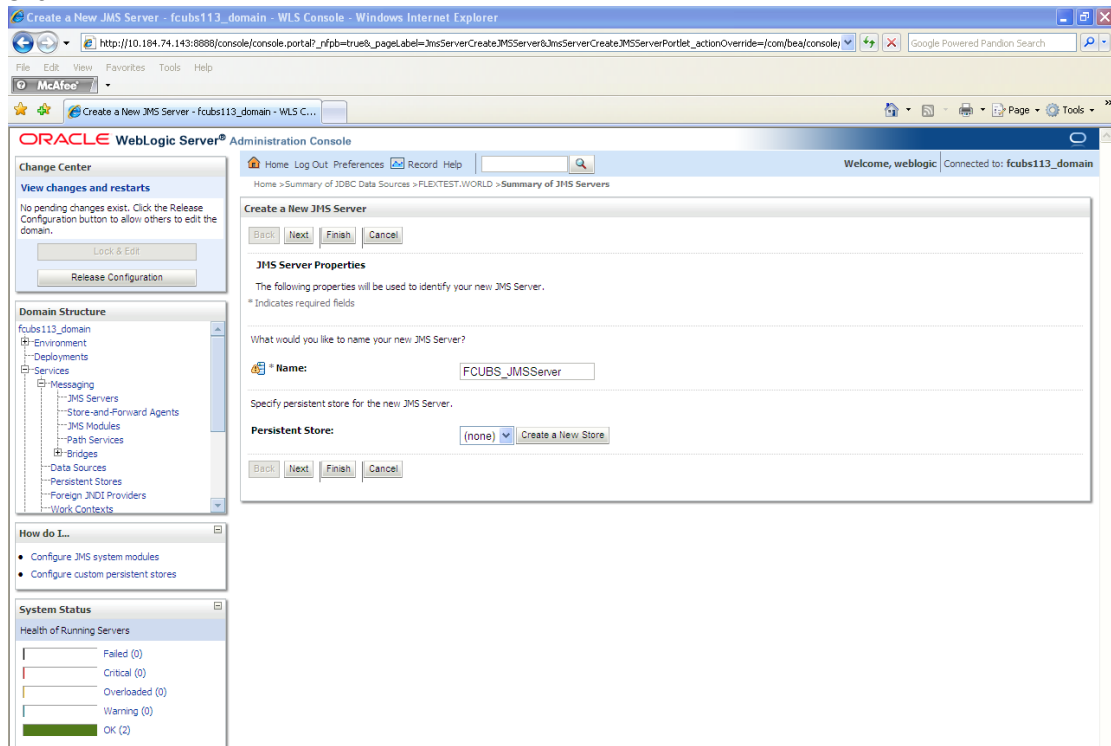
4. Following screen is displayed:



5. Expand 'Services' and then 'Messaging' and 'JMS Server' under it. Click 'Lock & Edit' button.



6. Click 'New'.

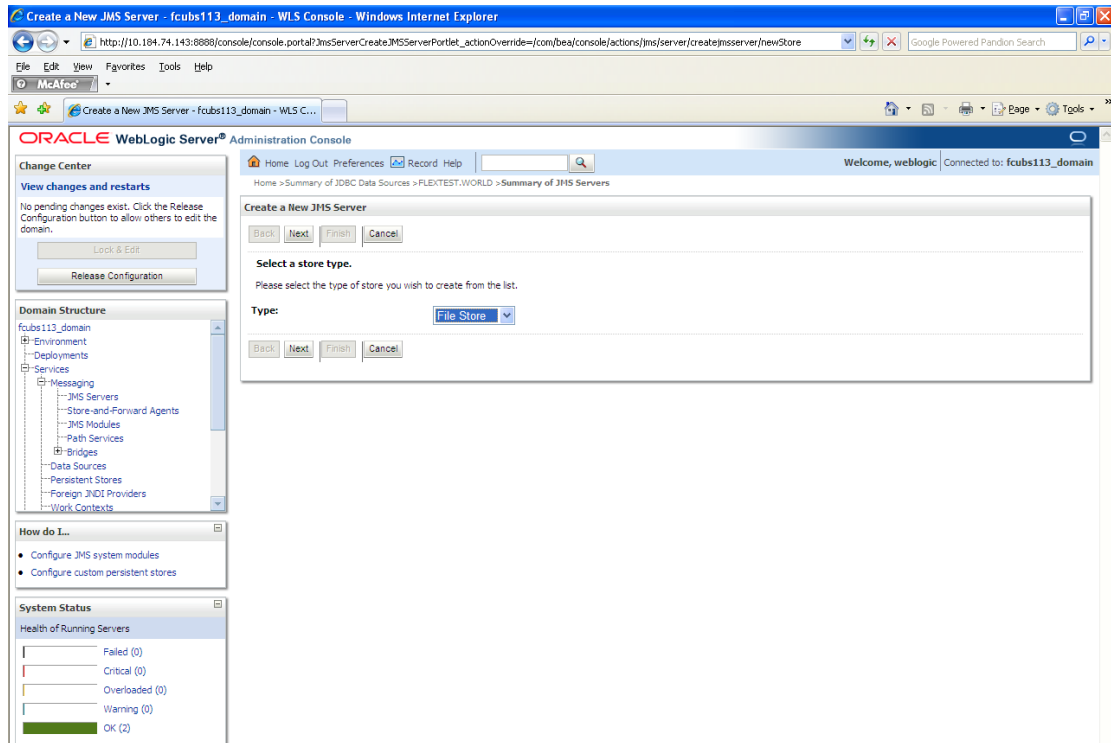


7. Specify the following details:

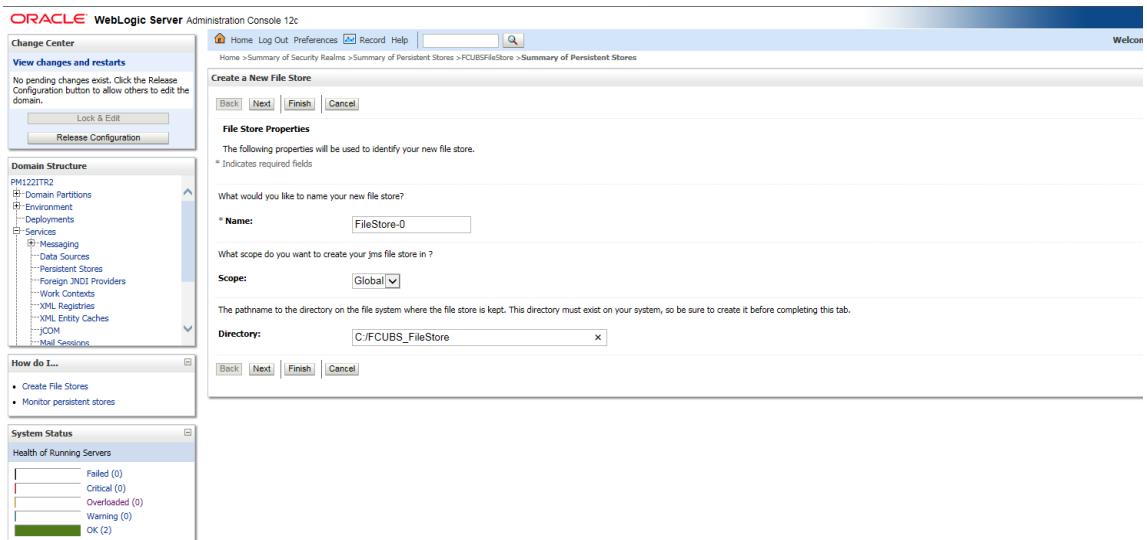
JMS Server Name	Specify the name of JMS Server.
-----------------	---------------------------------

8. Click 'Create a new Store' button. The following screen is displayed.

9. Select 'File Store' as the type and click 'Next'.



Following screen is displayed:

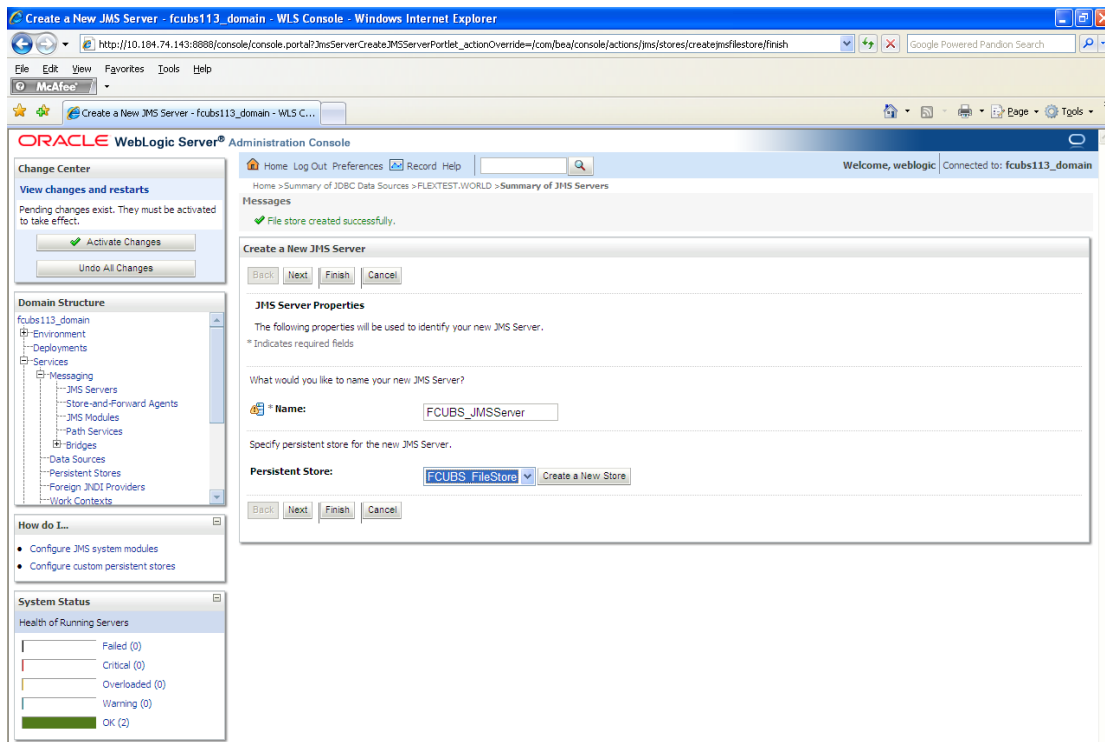


10. To identify the new File Store, specify the following properties:

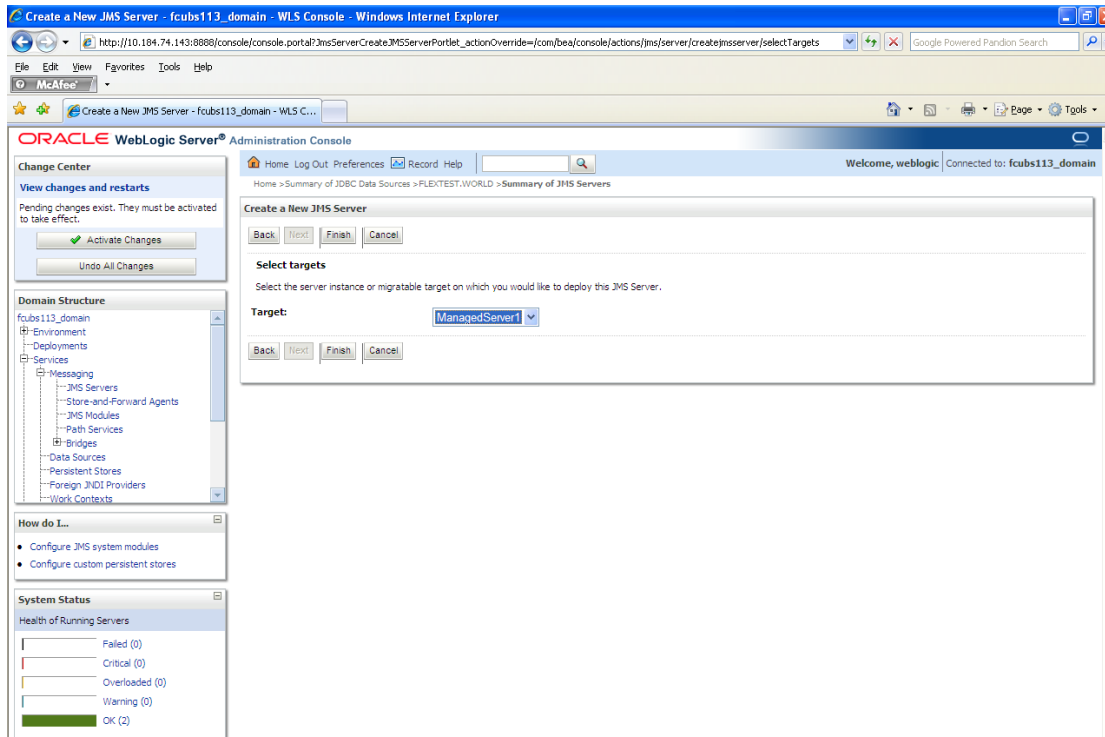
- Specify the file store name as FCUBS_FileStore.
- Select a server. For this file store, you may select ManagedServer1 (created by the user).
- Specify the Filestore Directory path as C:/FCUBS_FileStore.
- Click 'OK'.

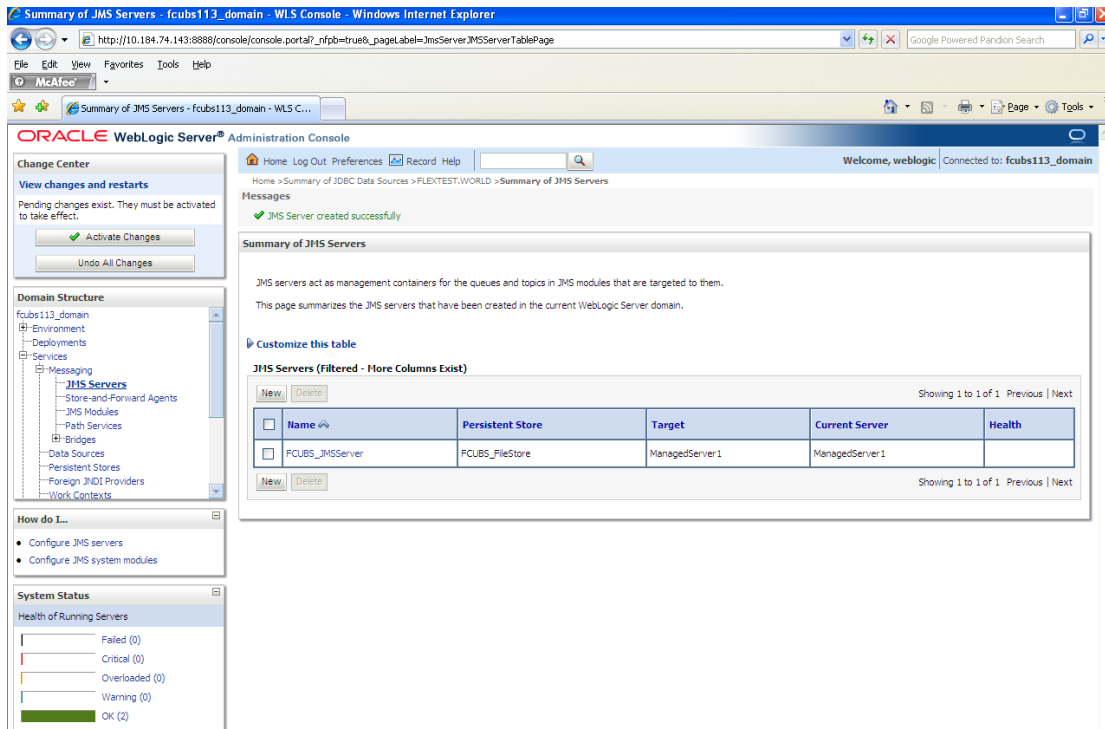
The following screen is displayed with message 'File store created successfully'.

11. Click 'Next'.



12. Select the target managed server. Click 'Finish'.





13. The message 'JMS Server created successfully' is displayed.

14. Click 'Activate Changes' under Change Center. The message 'All changes have been activated. No restarts are necessary' is displayed.

7.2.3 JMS Modules Creation

Follow the steps given below:

1. Navigate to the WEBLOGIC Home Page. Click 'JMS Modules' on domain structure by expanding 'Messaging'.

The following screen is displayed:

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: fcubs113_domain

Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules

JMS Modules

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

Customize this table

JMS Modules

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type
There are no items to display	

Showing 0 to 0 of 0 Previous | Next

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

fcubs113_domain

- Environment
- Deployments
- Services
 - Messaging
 - JMS Servers
 - Store-and-Forward Agents
 - JMS Modules**
 - Path Services
 - Bridges
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts

How do I...

- Configure JMS system modules
- Configure resources for JMS system modules

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

2. For creating New JMS System Modules, click 'Lock & Edit' button.

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: fcubs113_domain

Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules

JMS Modules

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

Customize this table

JMS Modules

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type
There are no items to display	

Showing 0 to 0 of 0 Previous | Next

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit

Release Configuration

Domain Structure

fcubs113_domain

- Environment
- Deployments
- Services
 - Messaging
 - JMS Servers
 - Store-and-Forward Agents
 - JMS Modules**
 - Path Services
 - Bridges
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts

How do I...

- Configure JMS system modules
- Configure resources for JMS system modules

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

3. Click 'New' button. The following screen is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console in a Windows Internet Explorer browser window. The title bar reads "Create JMS System Module - fcubs113_domain - WLS Console - Windows Internet Explorer". The address bar shows a URL starting with "http://10.184.74.143:8888/console/console.portal?CreateJMSSystemModulePortletreturnTo=JmsModulesTablePage&JmsModulesTablePortletHandle=com.bea.console.handles.J...". The console interface includes a top navigation bar with "Home", "Log Out", "Preferences", "Record", and "Help". A breadcrumb trail reads: "Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules".

The main content area is titled "Create JMS System Module" and contains the following sections:

- Change Center:** A sidebar on the left with "View changes and restarts" and "Release Configuration" buttons.
- Domain Structure:** A tree view on the left showing the hierarchy: "fcubs113_domain" > "Environment" > "Deployments" > "Services" > "Messaging" > "JMS Servers" > "Store-and-Forward Agents" > "JMS Modules".
- How do I...:** A section with links to "Configure JMS system modules" and "Configure JMS servers".
- System Status:** A section titled "Health of Running Servers" showing a bar chart with the following status counts:
 - Failed (0)
 - Critical (0)
 - Overloaded (0)
 - Warning (0)
 - OK (2)

The main form area contains the following fields and instructions:

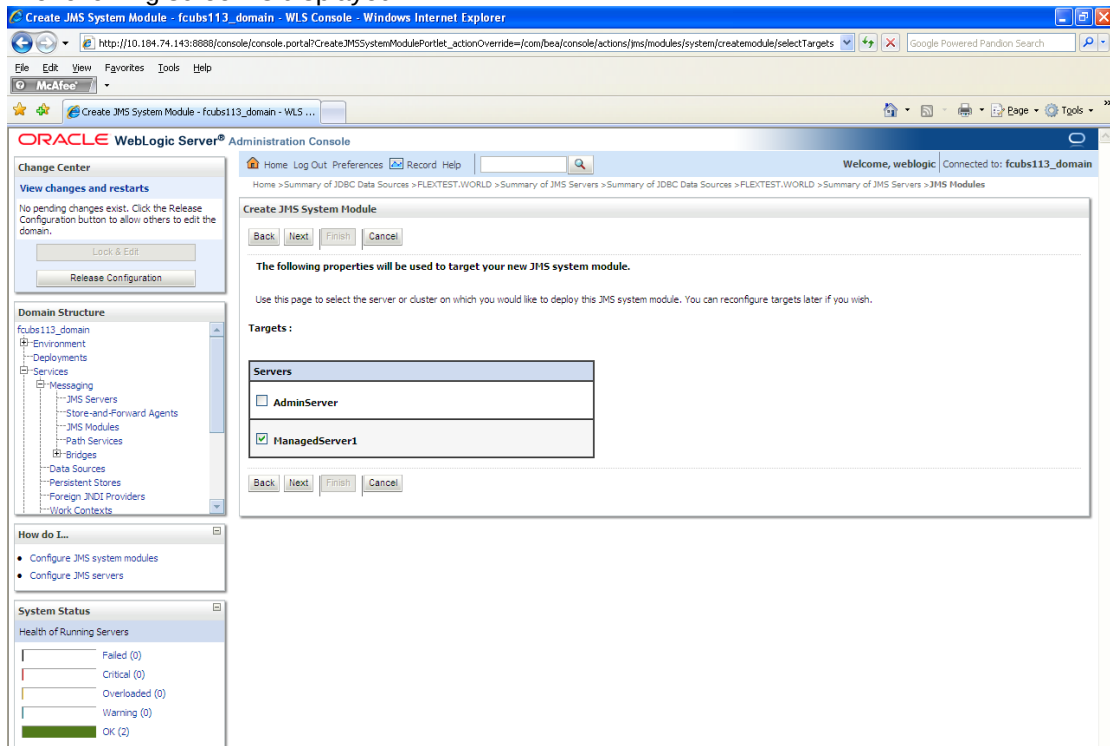
- Back Next Finish Cancel** buttons.
- The following properties will be used to identify your new module.**
- JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.**
- * Indicates required fields**
- What would you like to name your System Module?**
* **Name:**
- What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned.**
Descriptor File Name:
- Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?**
Location In Domain:
- Back Next Finish Cancel** buttons.

Enter the System Module Name as FCUBS_SystemModule.

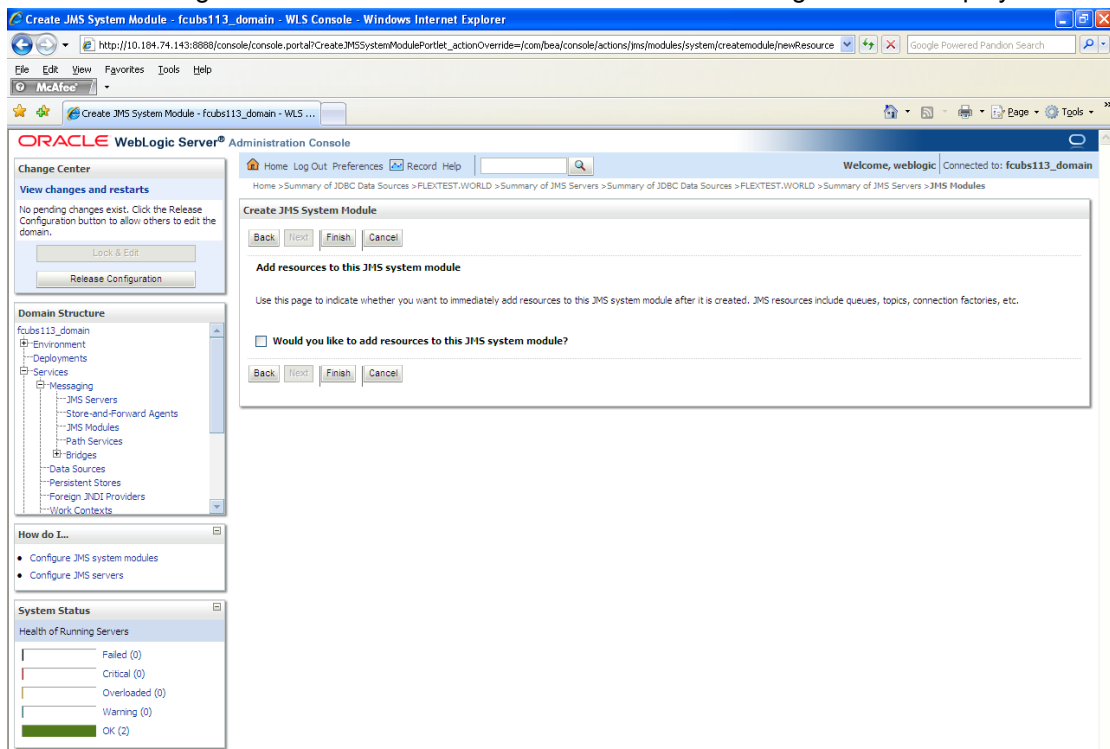
Enter the Description File Name as FCUBS_SystemModule.

4. Click 'Next'.

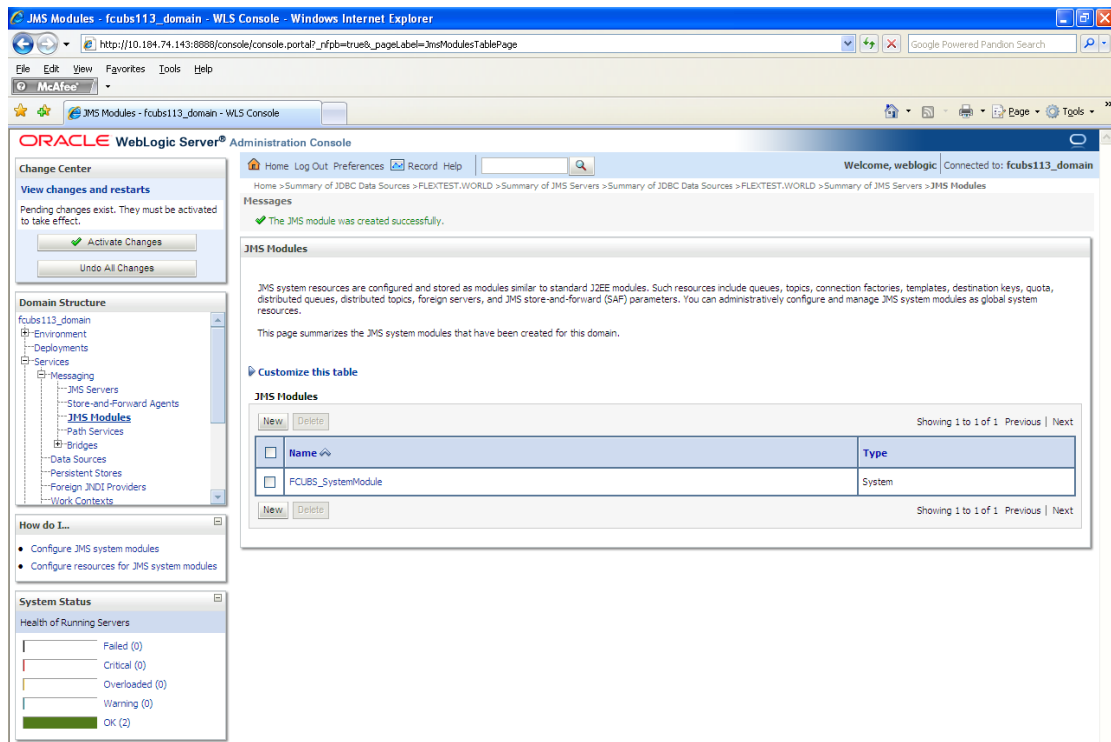
The following screen is displayed.



5. Check the box against the server created. Click 'Next'. The following screen is displayed.

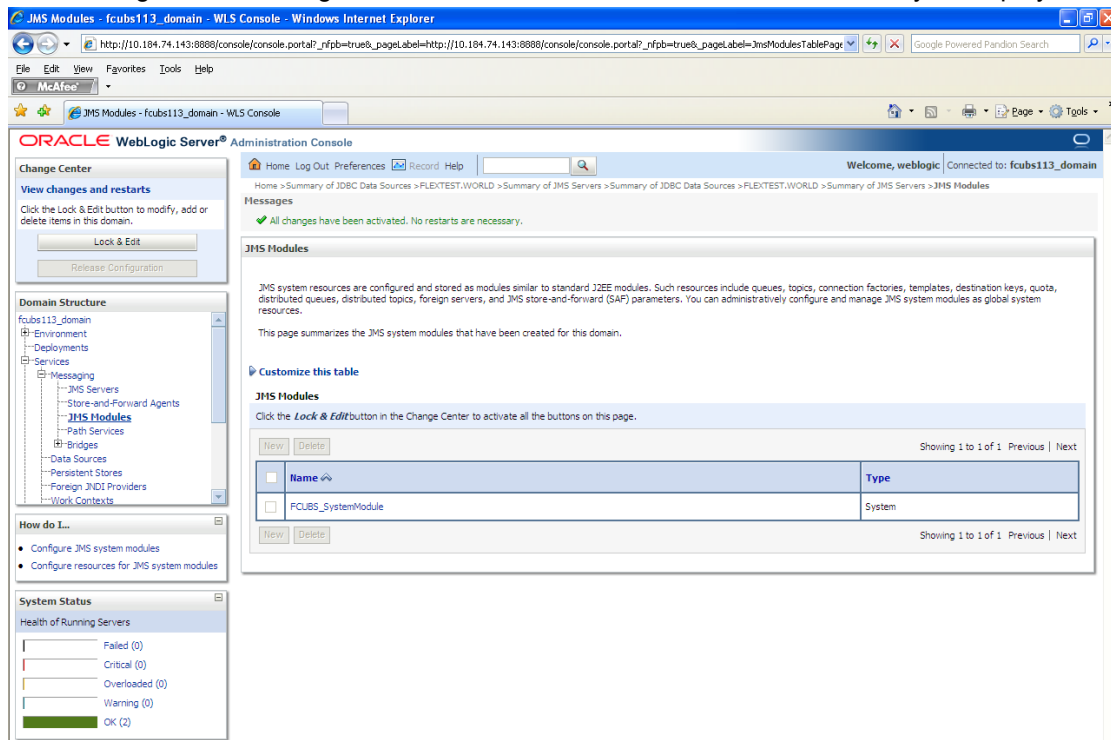


6. Click 'Finish' button. The following screen is displayed.



7. Click 'Activate Changes' button on the left pane.

The message 'All the changes have been activated. No restarts are necessary' is displayed.



7.2.4 Subdeployment Creation

Follow the steps given below:

1. Navigate to the WEBLOGIC Home Page. Click 'JMS Modules' on domain structure by expanding 'Messaging'.

The following screen is displayed:

The screenshot displays the Oracle WebLogic Server Administration Console for the 'fcubs113_domain'. The left-hand 'Domain Structure' tree is expanded to 'JMS Modules' under the 'Messaging' folder. The main content area, titled 'JMS Modules', provides an overview of JMS system resources and includes a 'Customize this table' section. This section contains a table with the following data:

Name	Type
FCUBS_SystemModule	System

Below the table, the status 'Showing 1 to 1 of 1' is displayed. The left sidebar also shows 'Change Center' with 'Lock & Edit' and 'Release Configuration' buttons, and 'System Status' indicating 'OK (2)'.

2. Click 'Lock & Edit' button.

3. Select the JMS module created earlier.

Oracle WebLogic Server Administration Console

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcubs113_domain

Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules > FCUBS_SystemModule

Settings for FCUBS_SystemModule

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: FCUBS_SystemModule The name of this JMS system module. More Info...

Descriptor File Name: jms/FCUBS_SystemModule-jms.xml The name of the JMS module descriptor file. More Info...

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

Customize this table

Summary of Resources

New Delete Showing 0 to 0 of 0 Previous Next

☐	Name	Type	JNDI Name	Subdeployment	Targets
There are no items to display					

New Delete Showing 0 to 0 of 0 Previous Next

Domain Structure

- fcubs113_domain
 - Environment
 - Deployments
 - Services
 - Messaging
 - JMS Servers
 - Store-and-Forward Agents
 - JMS Modules
 - Path Services
 - Bridges
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts

How do I...

- Configure JMS system modules
- Configure subdeployments in JMS system modules
- Configure resources for JMS system modules

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

4. Click 'Subdeployments' tab.

Oracle WebLogic Server Administration Console

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcubs113_domain

Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules > FCUBS_SystemModule

Settings for FCUBS_SystemModule

Configuration Subdeployments Targets Security Notes

This page displays subdeployments created for a JMS system module. A subdeployment is a mechanism by which JMS module resources (such as queues, topics, and connection factories) are grouped and targeted to a server resource (such as JMS servers, server instances, or cluster).

Customize this table

Subdeployments

New Delete Showing 0 to 0 of 0 Previous Next

☐	Name	Resources	Targets
There are no items to display			

New Delete Showing 0 to 0 of 0 Previous Next

Domain Structure

- fcubs113_domain
 - Environment
 - Deployments
 - Services
 - Messaging
 - JMS Servers
 - Store-and-Forward Agents
 - JMS Modules
 - Path Services
 - Bridges
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts

How do I...

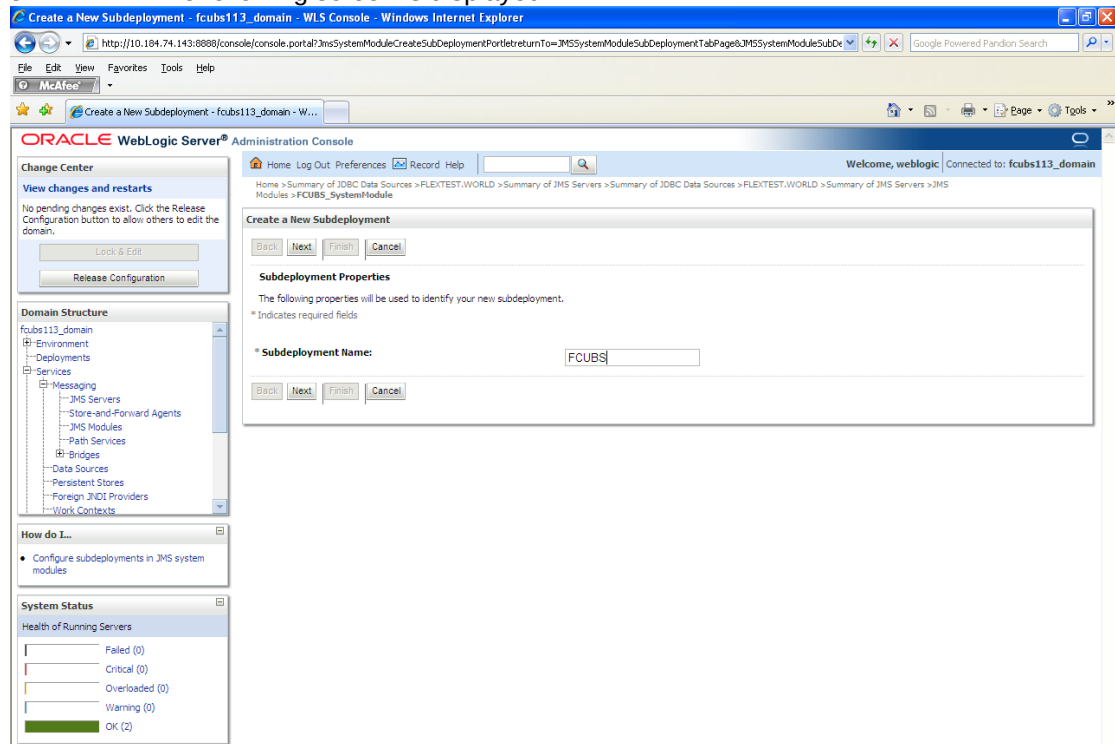
- Configure subdeployments in JMS system modules
- Configure JMS system modules

System Status

Health of Running Servers

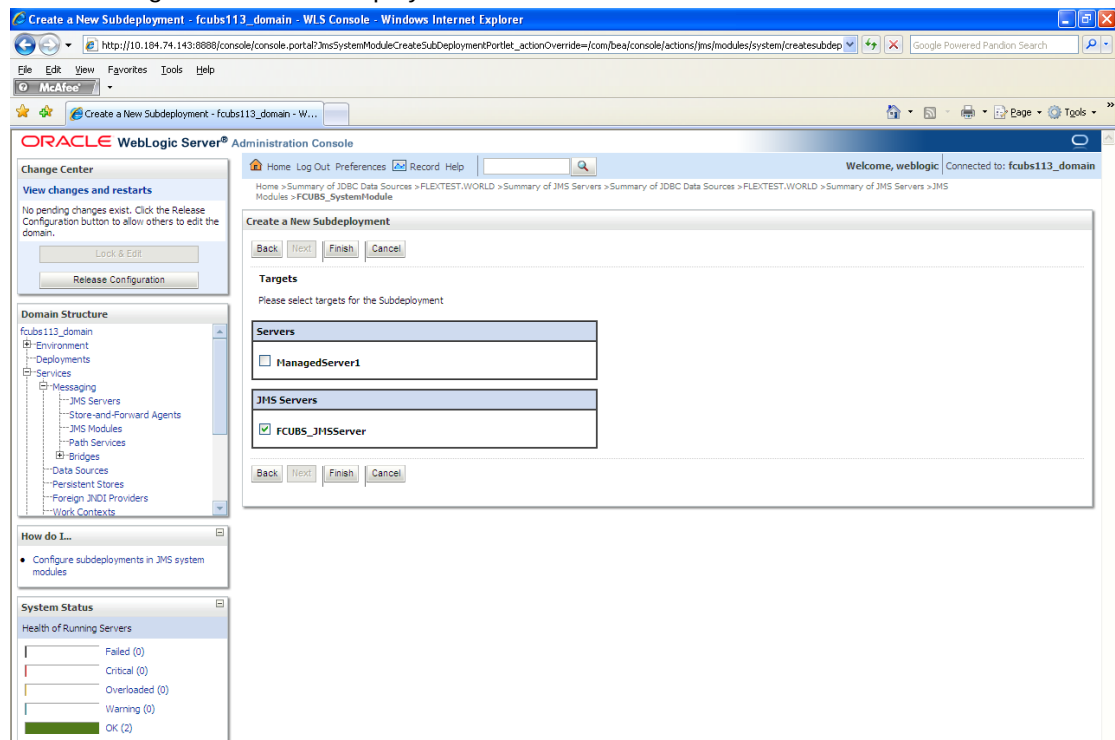
- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

5. Click 'New'. The following screen is displayed.



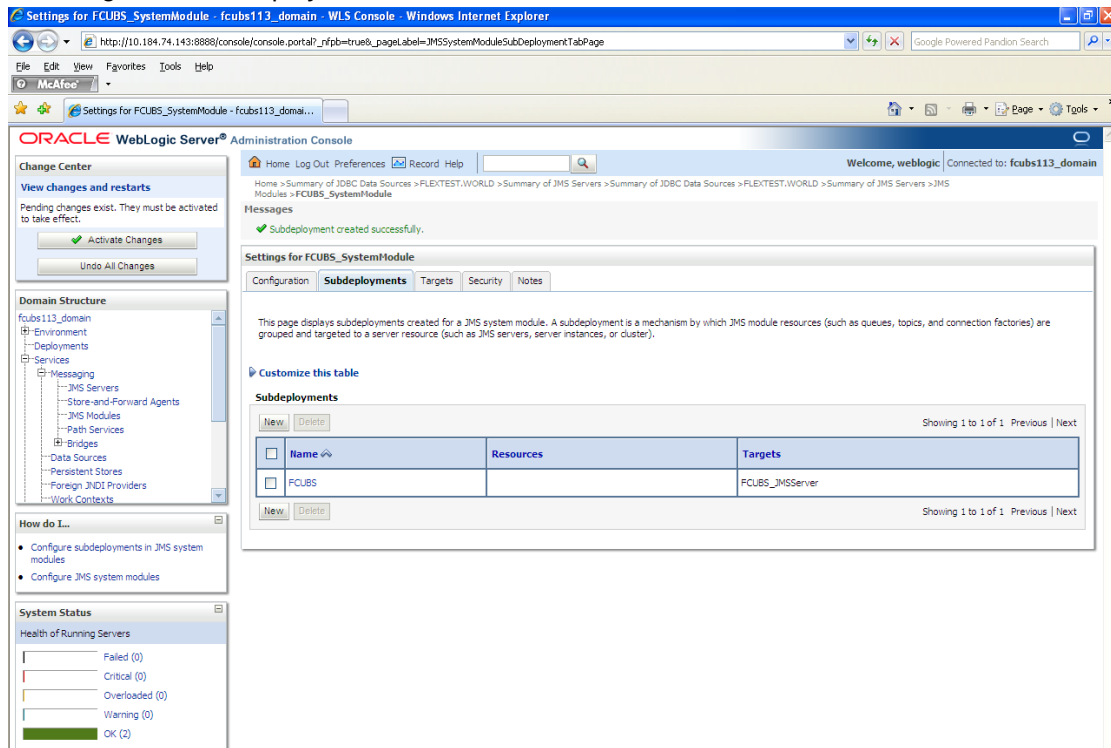
6. Specify the Subdeployment Name as 'FCUBS'. Then click 'Next'.

The following screen will be displayed.

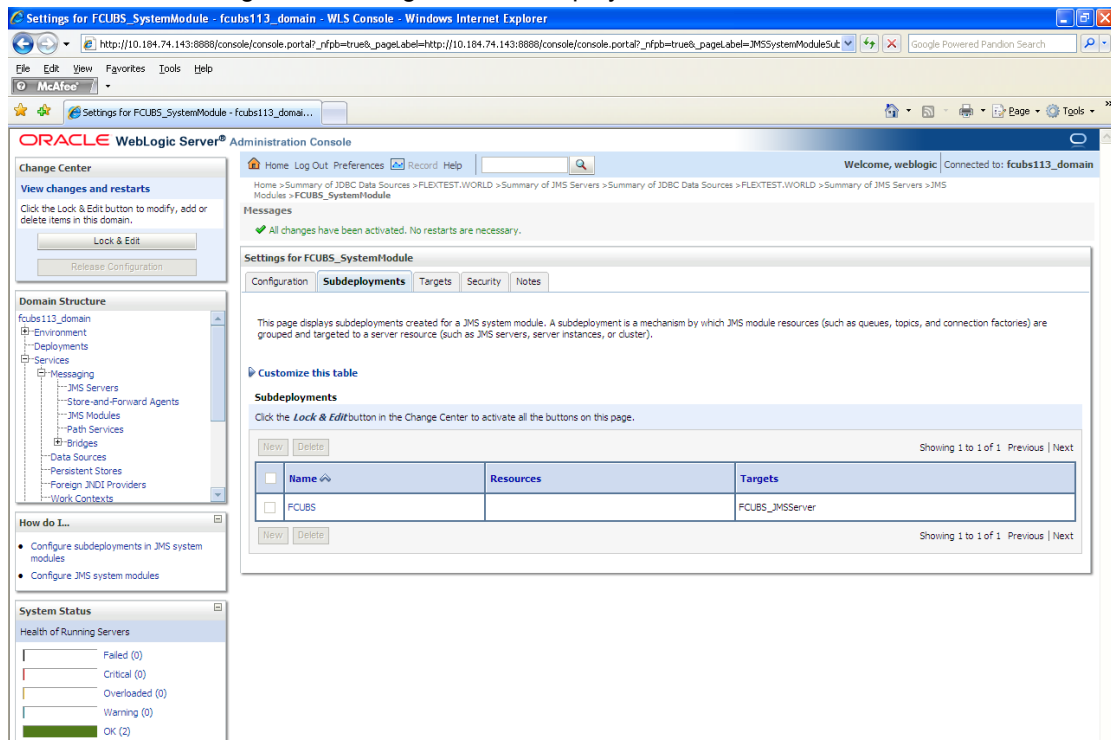


7. Select the JMS Server (as created by the user).

8. Click 'Finish' button.
9. Following screen is displayed.



10. Click 'Activate Changes'. Following screen is displayed.



7.2.5 JMS Queue Creation

1. Select the JMS Module created earlier.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'Lock & Edit' button, a 'Domain Structure' tree showing the hierarchy from 'fcubs113_domain' down to 'JMS Modules', and a 'System Status' section showing 'Health of Running Servers' with a green bar indicating 'OK (2)'. The main content area is titled 'Settings for FCUBS_SystemModule' and has tabs for 'Configuration', 'Subdeployments', 'Targets', 'Security', and 'Notes'. The 'Configuration' tab is active, displaying general information about the JMS system module. It includes fields for 'Name' (FCUBS_SystemModule) and 'Descriptor File Name' (jms/FCUBS_SystemModule/jms.xml). Below this is a 'Summary of Resources' section with a table that currently shows 'There are no items to display'. The table has columns for 'Name', 'Type', 'JNDI Name', 'Subdeployment', and 'Targets'.

Oracle WebLogic Server Administration Console

Home > Summary of JDBC Data Sources > FLEXTEST.WORLD > Summary of JMS Servers > Summary of JDBC Data Sources > FLEXTEST.WORLD > Summary of JMS Servers > JMS Modules > FCUBS_SystemModule

Settings for FCUBS_SystemModule

Configuration | Subdeployments | Targets | Security | Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: FCUBS_SystemModule The name of this JMS system module. [More Info...](#)

Descriptor File Name:.jms/FCUBS_SystemModule/jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

Customize this table

Summary of Resources

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

[New](#) [Delete](#) Showing 0 to 0 of 0 [Previous](#) | [Next](#)

☐	Name	Type	JNDI Name	Subdeployment	Targets
There are no items to display					

[New](#) [Delete](#) Showing 0 to 0 of 0 [Previous](#) | [Next](#)

2. You need to set the configuration for FCUBS_SystemModule is to be set.
3. Click 'Configuration'. Then click 'Lock & Edit'.

The Following screen is displayed.

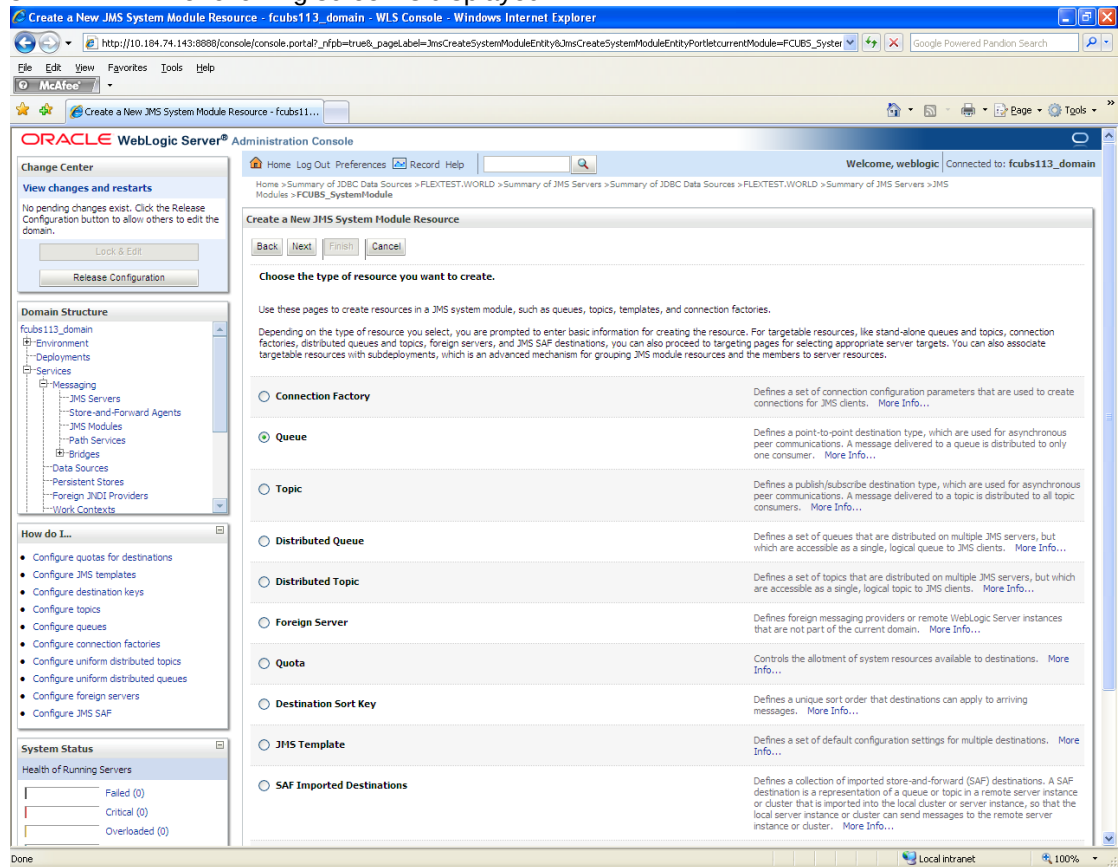
The screenshot displays the Oracle WebLogic Server Administration Console in a Windows Internet Explorer browser. The address bar shows the URL: `http://110.184.74.143:8888/console/console.portal?_nfpb=true&_pageLabel=JMSSystemModuleConfigGeneralPage`. The console title is "Settings for FCUBS_SystemModule - fcubs113_domain - WLS Console".

The main content area is titled "Settings for FCUBS_SystemModule" and includes tabs for "Configuration", "Subdeployments", "Targets", "Security", and "Notes". The "Configuration" tab is active, showing general information about the JMS system module and its resources. It includes fields for "Name" (FCUBS_SystemModule) and "Descriptor File Name" (jms/FCUBS_SystemModule-jms.xml).

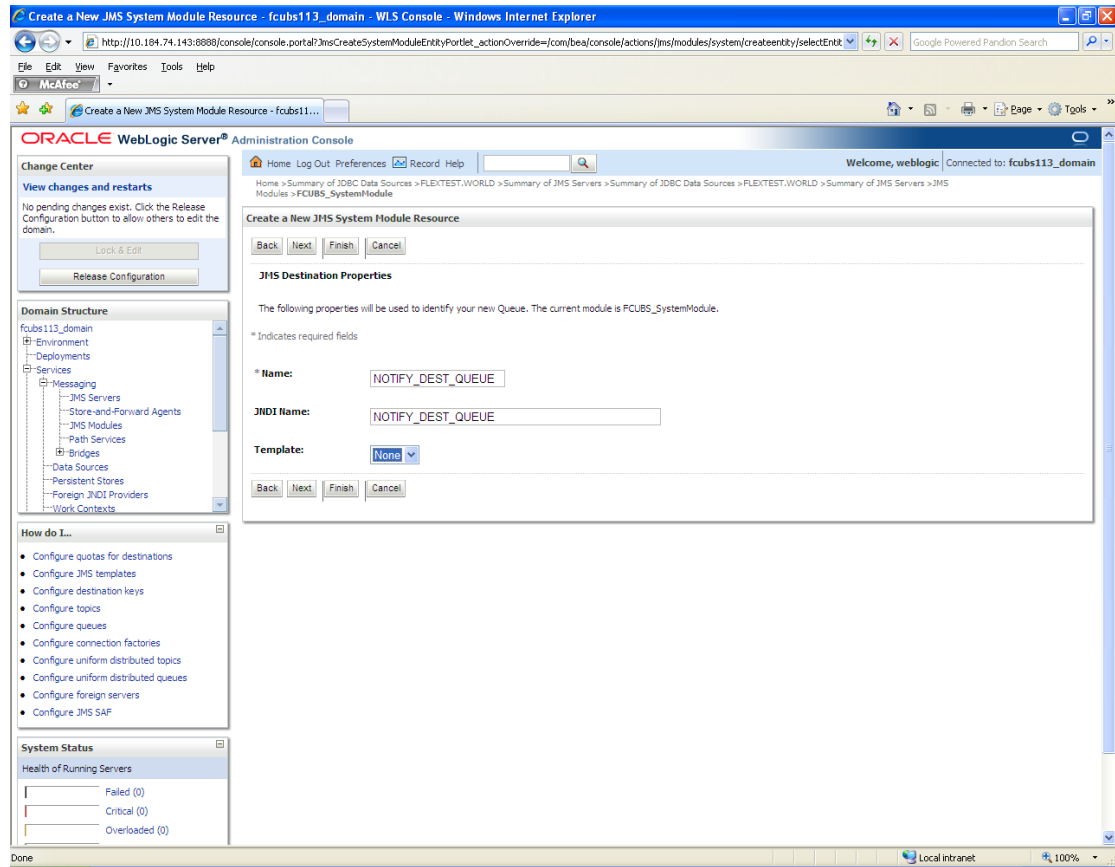
Below the configuration fields, there is a section titled "Summary of Resources" with a table. The table has columns for "Name", "Type", "JNDI Name", "Subdeployment", and "Targets". The table is currently empty, displaying "Showing 0 to 0 of 0" and "Previous | Next" links.

The left sidebar contains several panels: "Change Center" (with "View changes and restarts" and "Release Configuration" buttons), "Domain Structure" (showing a tree view of the domain hierarchy), "How do I..." (with links to configuration guides), and "System Status" (showing the health of running servers).

4. Click 'New'. The following screen is displayed.



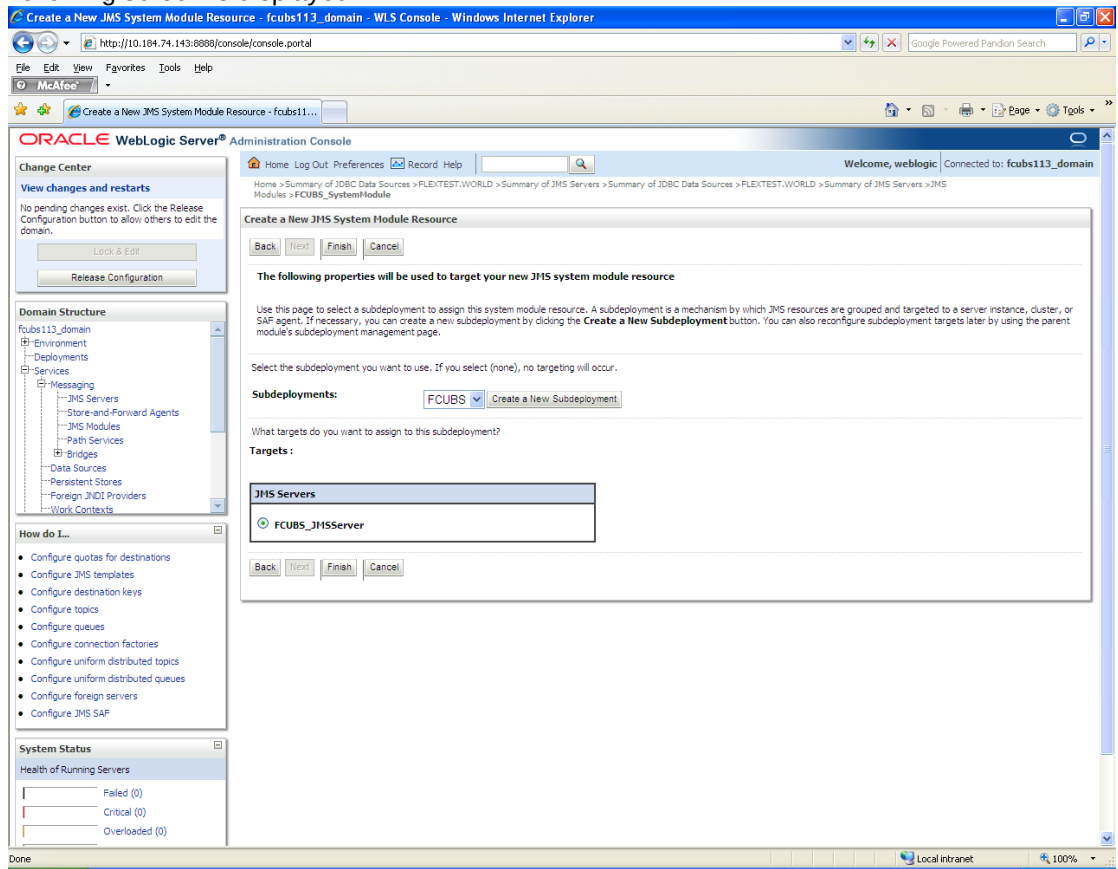
5. Select the 'Queue' option. Then click 'Next'.



For creating new JMS System Module Resources, follow the steps given below:

- Enter the Name of the Queue as 'NOTIFY_DEST_QUEUE'.
- Enter the JNDI Name as 'NOTIFY_DEST_QUEUE'.
- Select the Template as 'None'.
- Click 'Next'.

Following screen is displayed.



6. Select the managed server created by the user. Click 'Finish' button.

The screenshot displays the Oracle WebLogic Server Administration Console in a web browser. The browser's address bar shows the URL: `http://10.184.74.143:8888/console/console.portal?_rfpb=true&_pageLabel=JMSSystemModuleConfigGeneralPage`. The console's title bar reads "Settings for FCUBS_SystemModule - fcubs113_domain - WLS Console - Windows Internet Explorer".

The console interface includes a left-hand navigation pane with sections like "Change Center", "Domain Structure", "How do I...", and "System Status". The "Domain Structure" section shows a tree view with "fcubs113_domain" expanded, revealing "Environments", "Deployments", "Services", and "Messaging".

The main content area is titled "Settings for FCUBS_SystemModule" and has tabs for "Configuration", "Subdeployments", "Targets", "Security", and "Notes". The "Configuration" tab is active, showing a message: "The JMS Queue was created successfully". Below this, there's a "Summary of Resources" section with a table listing resources.

Name	Type	JNDI Name	Subdeployment	Targets
NOTIFY_DEST_QUEUE	Queue	NOTIFY_DEST_QUEUE	FCUBS	FCUBS_JMServer

The table is titled "Summary of Resources" and includes "New" and "Delete" buttons. It also shows "Showing 1 to 1 of 1 Previous | Next".

7. The JMS Queue has been created successfully. Click 'Activate Changes' under 'Change Center'.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'Release Configuration' button, a 'Domain Structure' tree, and a 'System Status' section showing 'Health of Running Servers' with a green bar indicating 'OK (2)'. The main content area is titled 'Settings for FCUBS_SystemModule' and has tabs for 'Configuration', 'Subdeployments', 'Targets', 'Security', and 'Notes'. The 'Configuration' tab is active, displaying general information about the JMS system module. Below this, there is a 'Summary of Resources' table with one entry: 'NOTIFY_DEST_QUEUE' of type 'Queue', with JNDI Name 'NOTIFY_DEST_QUEUE', Subdeployment 'FCUBS', and Targets 'FCUBS_JMServer'.

Name	Type	JNDI Name	Subdeployment	Targets
NOTIFY_DEST_QUEUE	Queue	NOTIFY_DEST_QUEUE	FCUBS	FCUBS_JMServer

8. Click 'New' to create more Queues. You may follow the same steps to create other queues.

7.2.6 JMS Connection Factory Creation

After creating the queues, you need to create the connection factory. To perform this, follow the steps given below:

1. Click 'New'.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for FCUBS_SystemModule' and includes tabs for Configuration, Subdeployments, Targets, Security, and Notes. The 'Configuration' tab is active, displaying general information about the JMS system module and its resources. Below this information is a 'Summary of Resources' table. The table has columns for Name, Type, JNDI Name, Subdeployment, and Targets. A 'New' button is located at the top left of the table, and a 'Delete' button is at the top right. The table contains one row with the name 'NOTIFY_DEST_QUEUE', type 'Queue', JNDI Name 'NOTIFY_DEST_QUEUE', Subdeployment 'FCUBS', and Targets 'FCUBS_JMServer'. The 'System Status' section on the left shows the health of running servers, with a green bar indicating 'OK (2)'.

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

[Lock & Edit](#)

[Release Configuration](#)

Domain Structure

- fcubs113_domain
 - Environment
 - Deployments
 - Services
 - Messaging
 - JMS Servers
 - Store-and-Forward Agents
 - JMS Modules
 - Path Services
 - Bridges
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts

How do I...

- Configure JMS system modules
- Configure subdeployments in JMS system modules
- Configure resources for JMS system modules

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

Settings for FCUBS_SystemModule

[Home](#) [Log Out](#) [Preferences](#) [Record](#) [Help](#)

Welcome, weblogic Connected to: fcubs113_domain

Home > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JDBC Data Sources > FLEXTTEST.WORLD > Summary of JMS Servers > JMS Modules > FCUBS_SystemModule

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: FCUBS_SystemModule The name of this JMS system module. [More Info...](#)

Descriptor File Name: jms/FCUBS_SystemModule-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quotas, distributed destinations, foreign servers, and store-and-forward parameters.

Customize this table

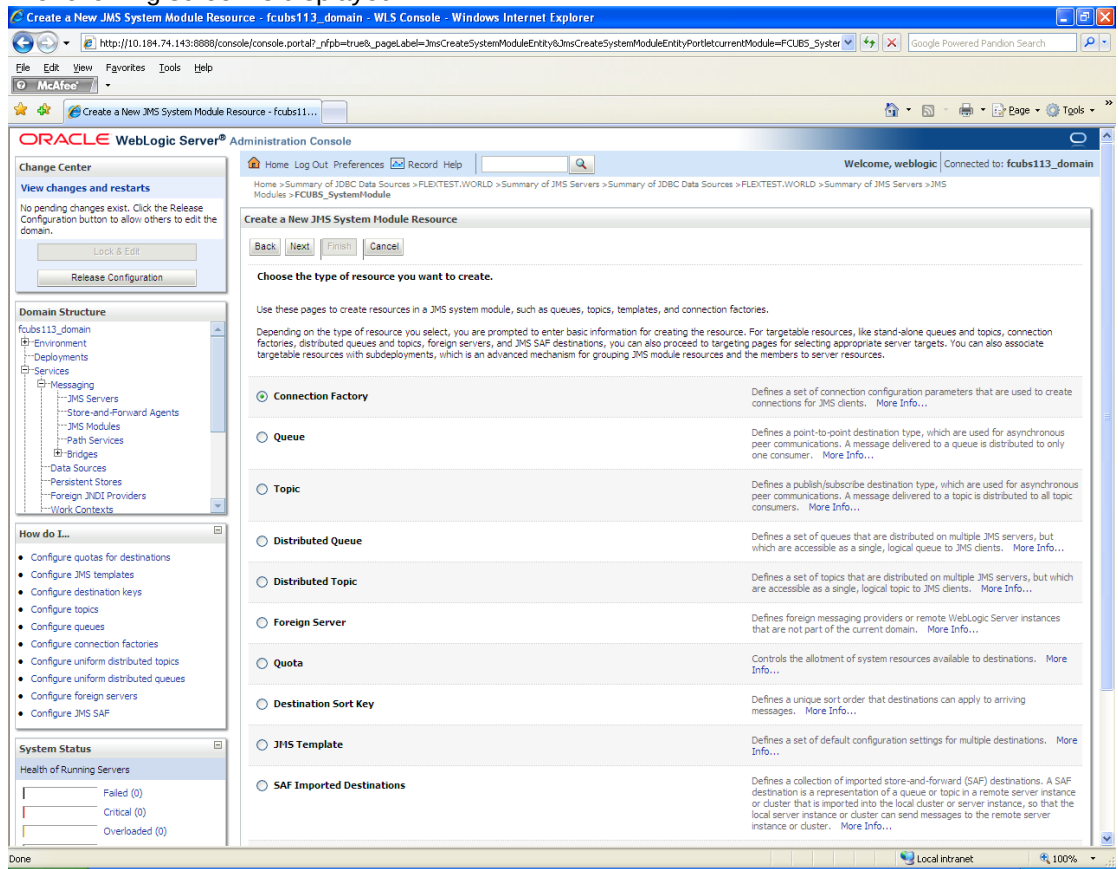
Summary of Resources

[New](#) [Delete](#) Showing 1 to 1 of 1 Previous | Next

☐	Name ↕	Type	JNDI Name	Subdeployment	Targets
☐	NOTIFY_DEST_QUEUE	Queue	NOTIFY_DEST_QUEUE	FCUBS	FCUBS_JMServer

[New](#) [Delete](#) Showing 1 to 1 of 1 Previous | Next

The following screen is displayed:



2. Select 'Connection Factory'. Click 'Next'.

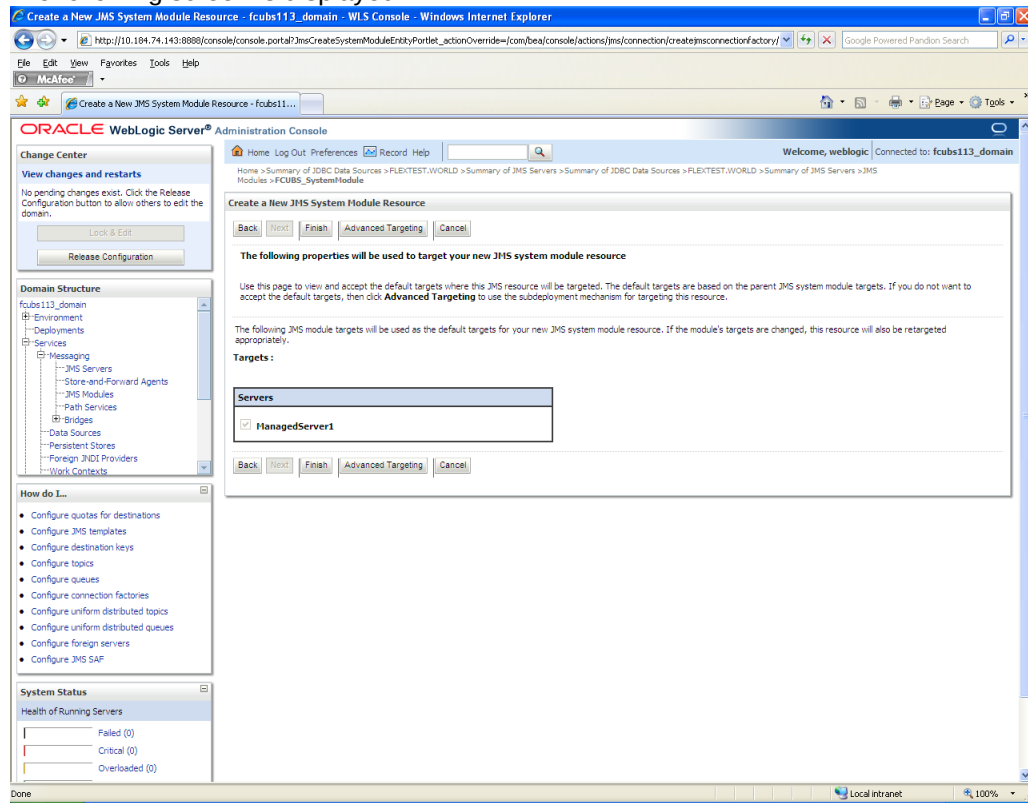
The screenshot shows the Oracle WebLogic Server Administration Console. The main window displays the 'Create a New JMS System Module Resource' wizard. The 'Connection Factory Properties' tab is selected, showing the following configuration:

- Name:** NotifyDestQCF
- JNDI Name:** NotifyDestQCF
- Subscription Sharing Policy:** Exclusive
- Client ID Policy:** Restricted
- Maximum Messages per Session:** 10
- XA Connection Factory Enabled:** ☒

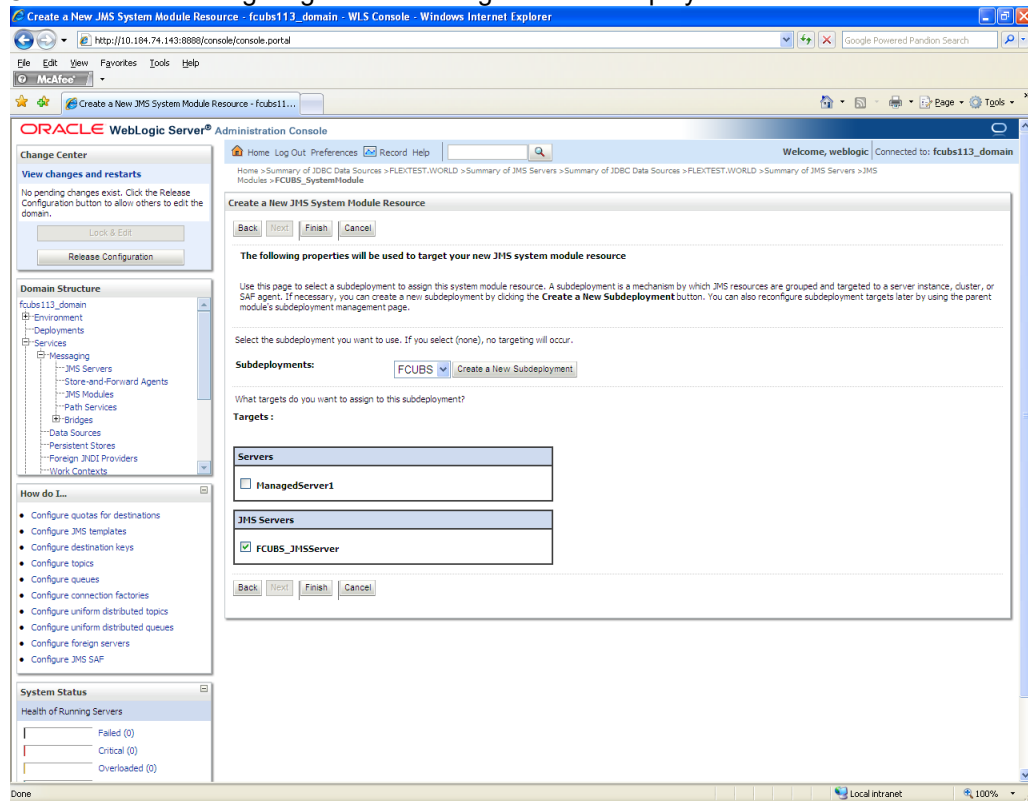
The 'Next' button is highlighted, indicating the next step in the wizard. The left sidebar shows the 'Domain Structure' tree with 'JMS Modules' expanded. The bottom status bar shows 'Local intranet' and '100%' zoom.

3. Enter the Name of the Connection Factory as 'NotifyDestQCF'.
4. Enter the JNDI Name as 'NotifyDestQCF'.
5. Check the box 'XA Connection Factory Enabled'.
6. Click 'Next'.

The following screen is displayed:



7. Click 'Advanced Targeting'. The following screen is displayed.



8. Select the 'Subdeployments' as FCUBS.
9. Under JMS Servers, check the box against 'Managed Server'.

10. Click 'Finish'. The following screen is displayed:

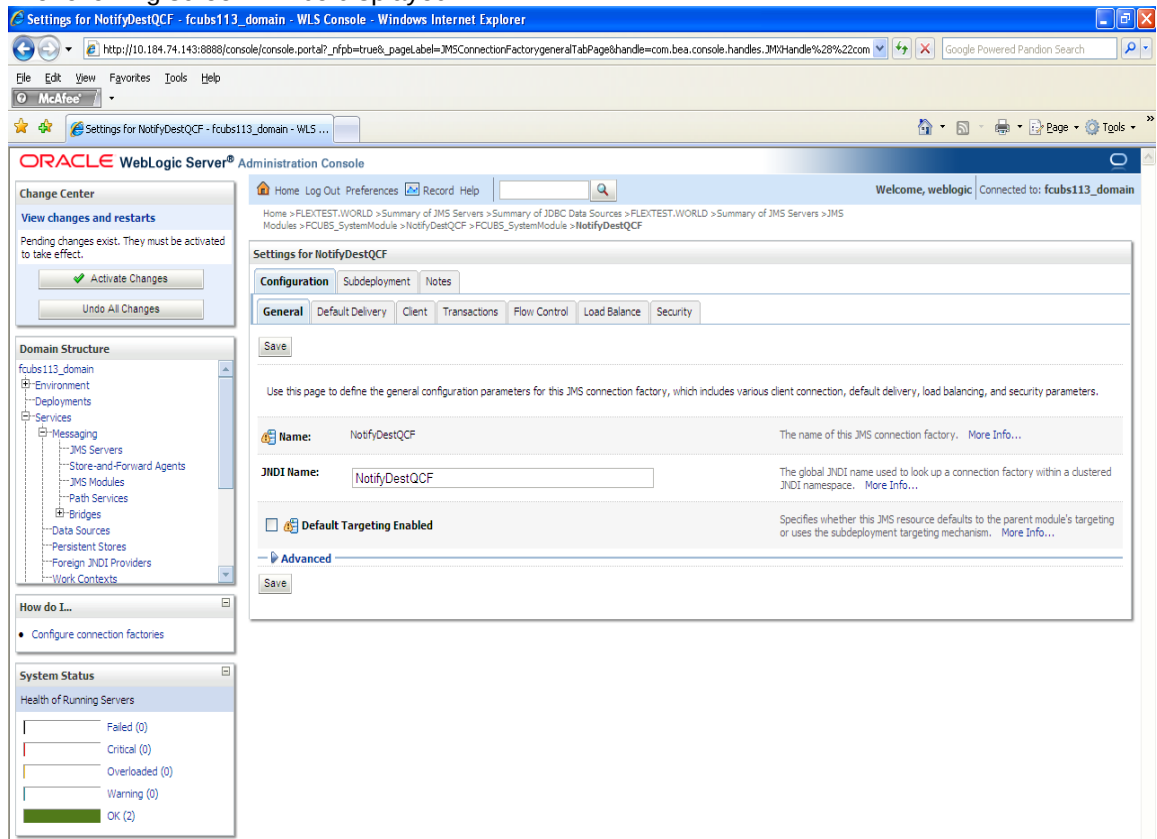
The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with 'Activate Changes' and 'Undo All Changes' buttons, the 'Domain Structure' tree, and 'How do I...' links. The main content area is titled 'Settings for FCUBS_SystemModule' and shows a message 'Connection factory created successfully.' Below this is a table of resources:

Name	Type	JNDI Name	Subdeployment	Targets
NotifyDestQCF	Connection Factory	NotifyDestQCF	FCUBS	FCUBS_JMSServer
NOTIFY_DEST_QUEUE	Queue	NOTIFY_DEST_QUEUE	FCUBS	FCUBS_JMSServer

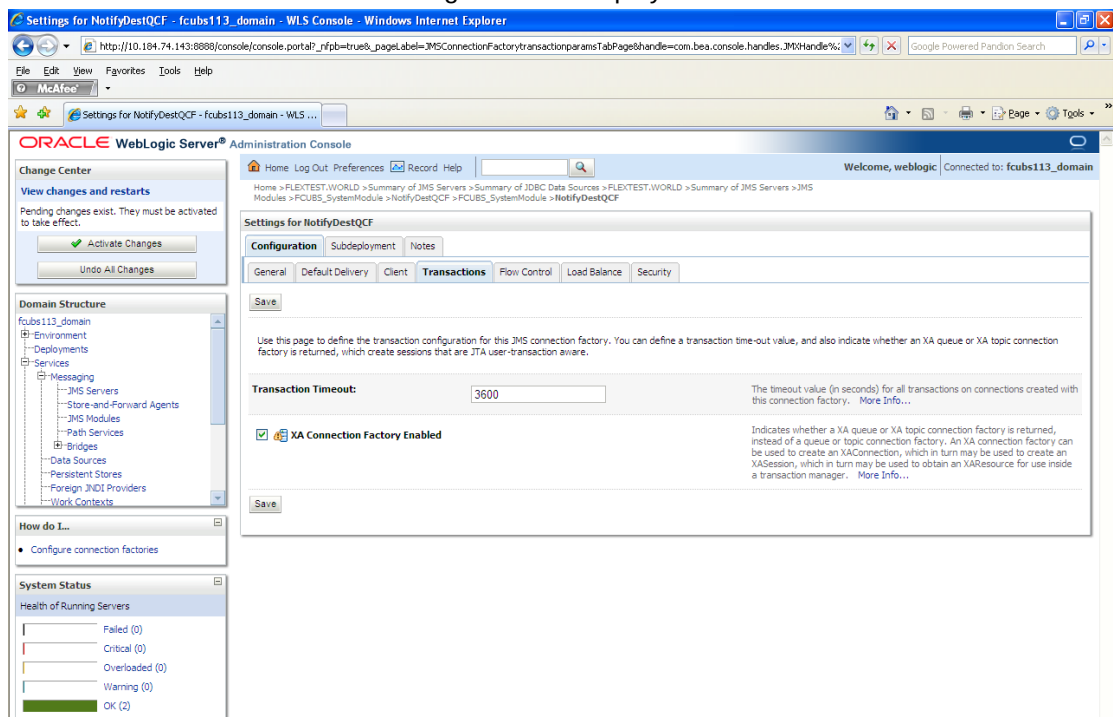
11. The message 'Connection Factory created successfully' is displayed.

12. Click on the Connection Factory 'NotifyDestQCF' to have XA Connection Factory enabled.

The following screen will be displayed.

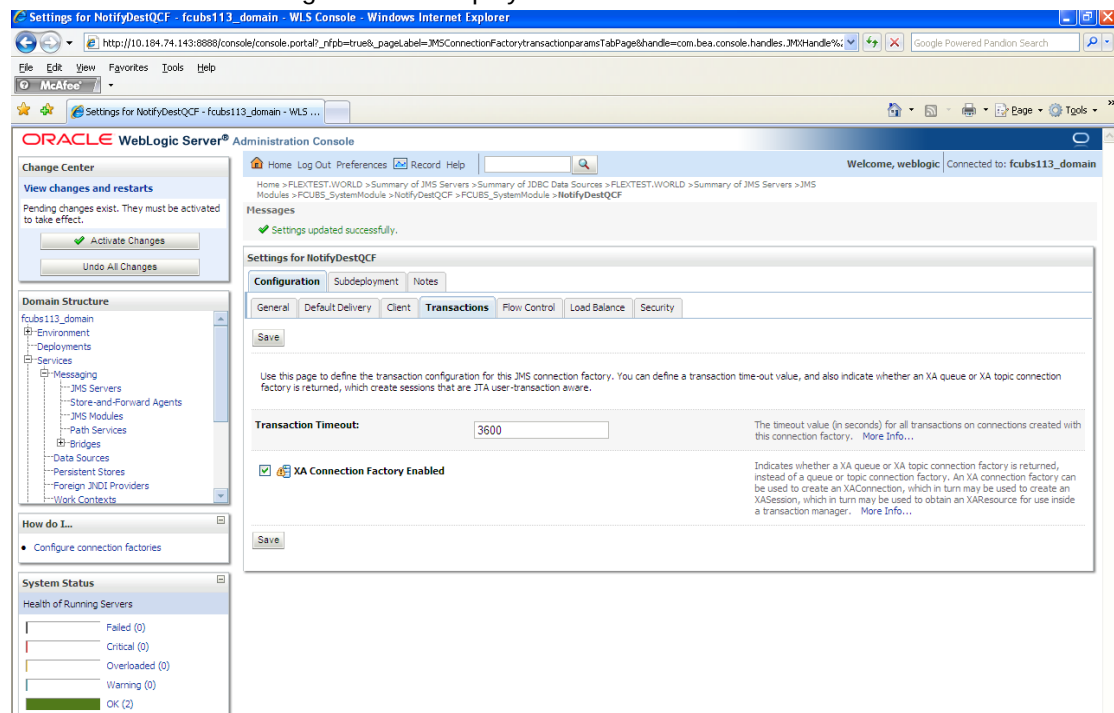


13. Click 'Transactions' Tab. The following screen is displayed.



14. Check the box 'XA Connection Factory Enabled'.

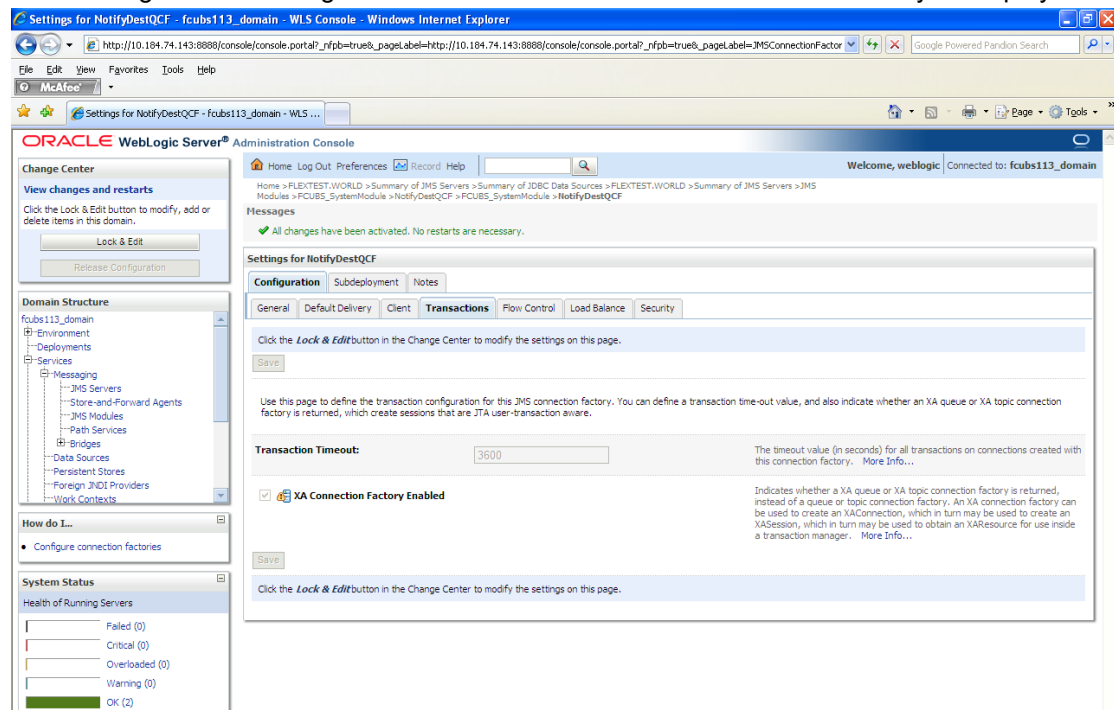
15. Click 'Save'. The following screen is displayed.



16. The message 'Settings updated successfully' is displayed.

17. Click 'Activate Changes' button under 'Change Center'.

The message 'All the changes have been activated. No restarts are necessary' is displayed.



7.3 Configuring Weblogic for PMGateway

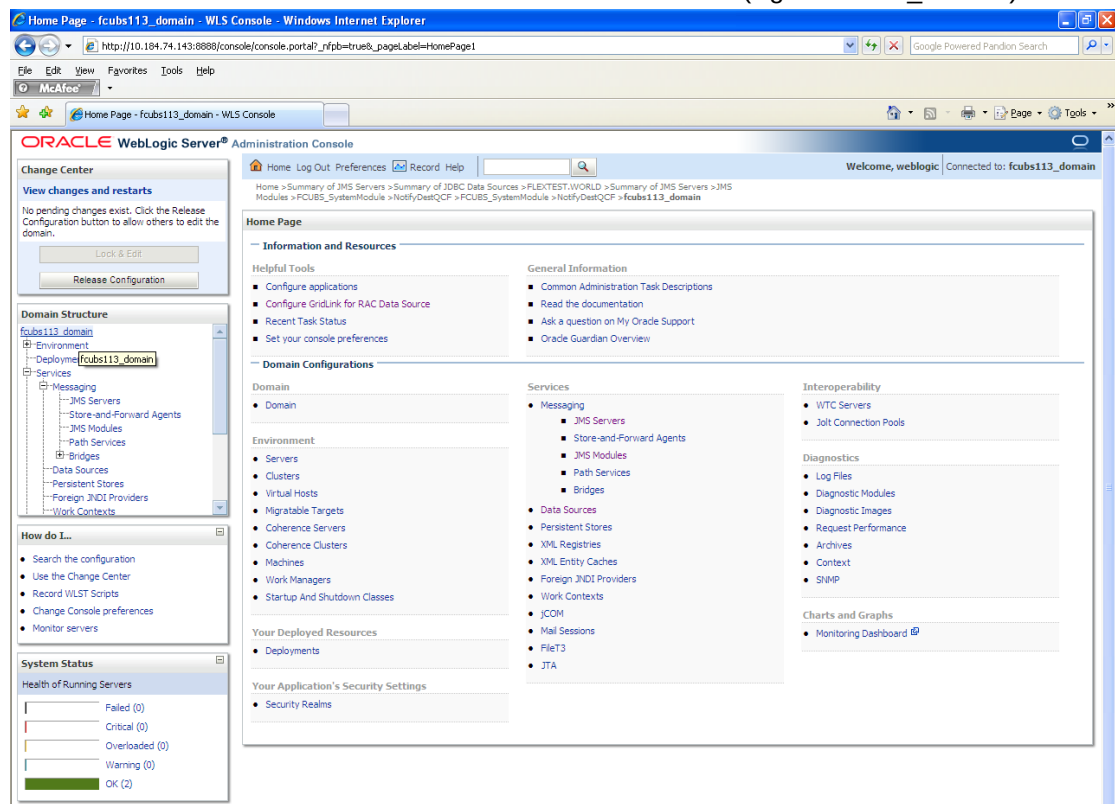
To deploy and run PMGateway application in weblogic server following configuration needs to be done

Copy runtime12.jar from database servers ORACLE_HOME/sqlj/lib to application servers library path WEBLOGIC_HOME/user_projects/domains/<app-domain>/lib

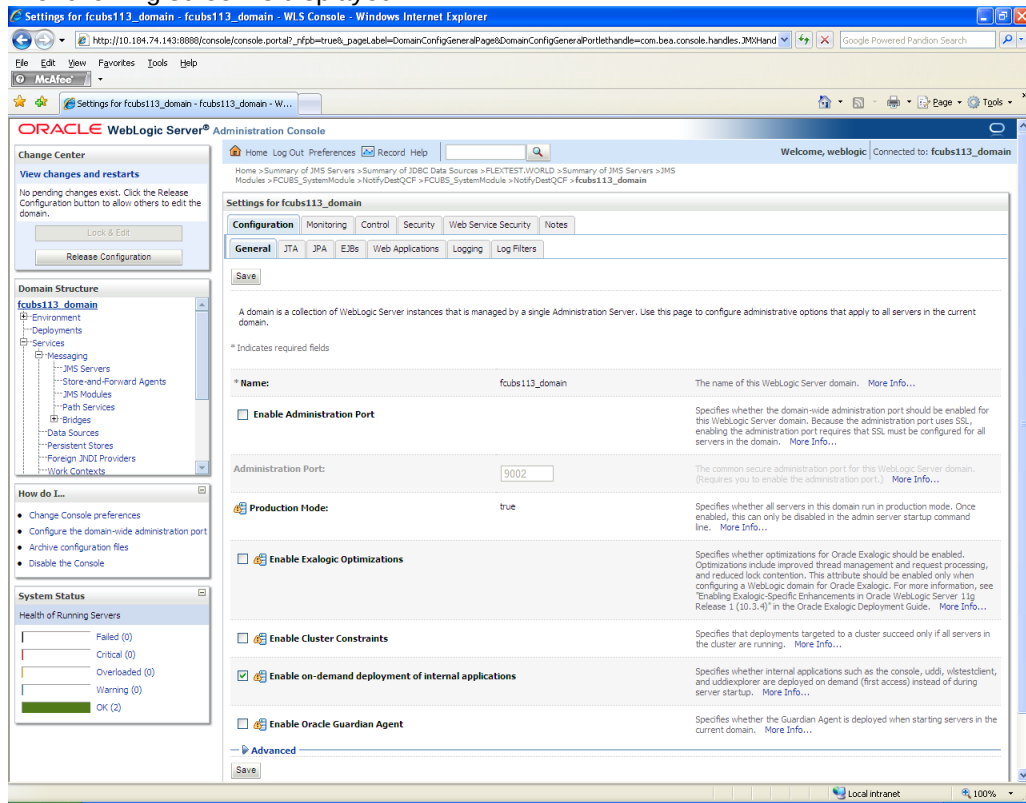
7.4 Configuring Weblogic for Oracle FLEXCUBE

This section explains the steps for configuring Oracle WebLogic application server for Oracle FLEXCUBE. Follow the steps given below:

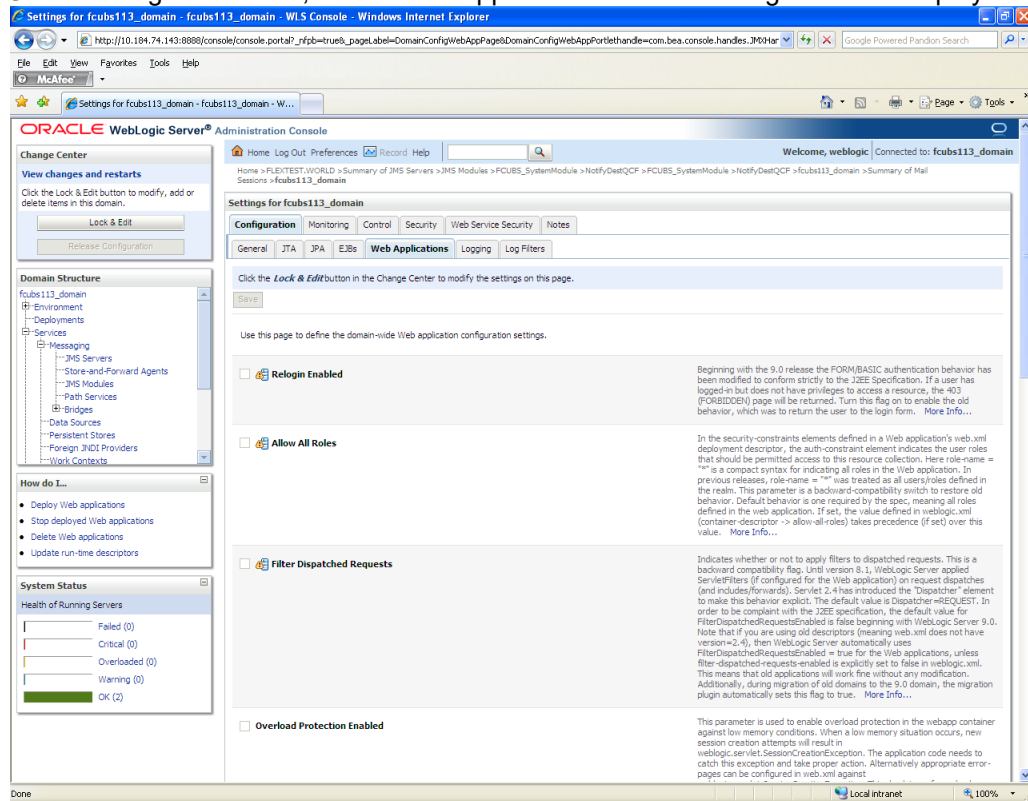
1. Select the domain from the domain structure as shown below. (Eg: fcubs113_domain).



The following screen is displayed:



2. Under 'configuration' tab ,Select 'Web Applications'. The following screen is displayed.



3. Scroll down and ensure that the details are as shown in the figure. The remaining portion of the screen is given below:

Settings for fcubs113_domain - fcubs113_domain - WLS Console - Windows Internet Explorer

http://10.184.74.143:8888/console/console.portal?_nfpb=true&_pagelabel=DomainConfigWebAppPage&handle=com.bea.console.handles.JM0?Handle%28%22com.bea%3AAna

Google Powered Pandion Search

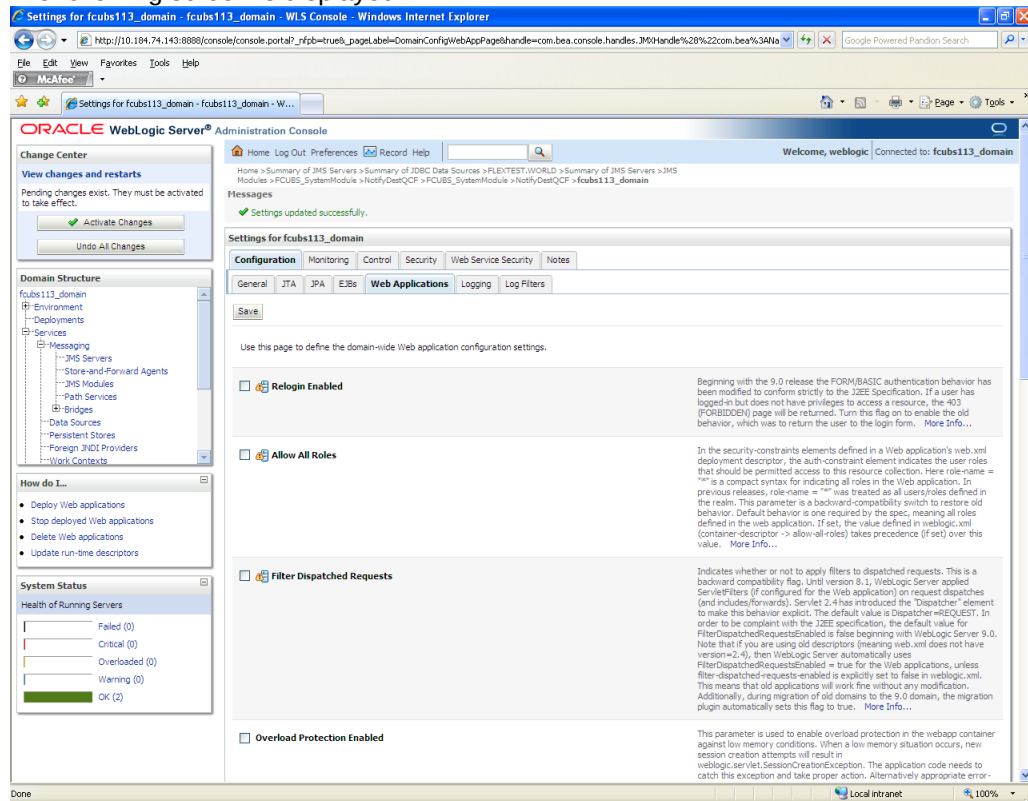
McAfee

Settings for fcubs113_domain - fcubs113_domain - W...

☐ Http Trace Support Enabled	Returns the value of HttpTraceSupportEnabled. More Info...
☐ WebLogic Plugin Enabled	Specifies whether or not the proprietary WL-Proxy-Client-IP header should be honored. (This is needed only when WebLogic plugins are configured.) More Info...
☒ Auth Cookie Enabled	Whether authcookie feature is enabled or not. More Info...
☒ Change Session ID On Authentication	Global property to determine if we need to generate a new SessionID after authentication. When this property set to "false", the previous sessionID will be retained even after authorization. More Info...
☐ WAP Enabled	Indicates whether the session ID should include JVM information. (Checking this box may be necessary when using URL rewriting with WAP devices that limit the size of the URL to 128 characters, and may also affect the use of replicated sessions in a cluster.) When this box is selected, the default size of the URL will be set at 52 characters, and it will not contain any special characters. More Info...
Post Timeout: 30	The amount of time this server waits between receiving chunks of data in an HTTP POST data before it times out. (This is used to prevent denial-of-service attacks that attempt to overload the server with POST data.) More Info...
Maximum Post Time: -1	Max Post Time (in seconds) for reading HTTP POST data in a servlet request. MaxPostTime < 0 means unlimited. More Info...
Maximum Post Size: -1	The maximum post size this server allows for reading HTTP POST data in a servlet request. A value less than 0 indicates an unlimited size. More Info...
☒ Work Context Propagation Enabled	Indicates whether or not WorkContextPropagation is enabled. By default it is turned on. There is a little overhead involved in propagating WorkContexts. Therefore, if you don't care about WorkContext propagation, turn this value off in production environments. More Info...
P3P Header Value:	Returns the P3P Header value that will be sent with all responses for http requests (if non-null). The value of this header points to the location of the policy reference file for the Web site. More Info...
☒ JSP Compiler Backwards Compatible	Global property to determine the behavior of the JSP compiler. When this property set to "true", the JSP compiler throws a translation error for JSPs that do not conform to the JSP2.0 specification. This property exists for backward compatibility. More Info...
☒ Archived Real Path Enabled	Global property to determine the behavior of getRealPath() for archived web applications. When this property set to "true", getRealPath() will return the canonical path of the resource files. More Info...

4. Check the options 'JSP Compiler Backwards Compatible' and 'Archived Real Path Enabled'.
5. Click 'Save'.

6. The following screen is displayed:



7. Ensure that the message 'Settings are updated successfully' is displayed.

8. Click the button 'Active Changes'.

7.5 Setup/Configure Mail Session in Weblogic

This section describes the set of configurations changes required in Oracle Weblogic Server when Oracle FLEXCUBE UBS is configured to generate and send passwords to users via e-mail.

7.5.1 Creating JavaMail Session

To configure mail session, follow the steps below.

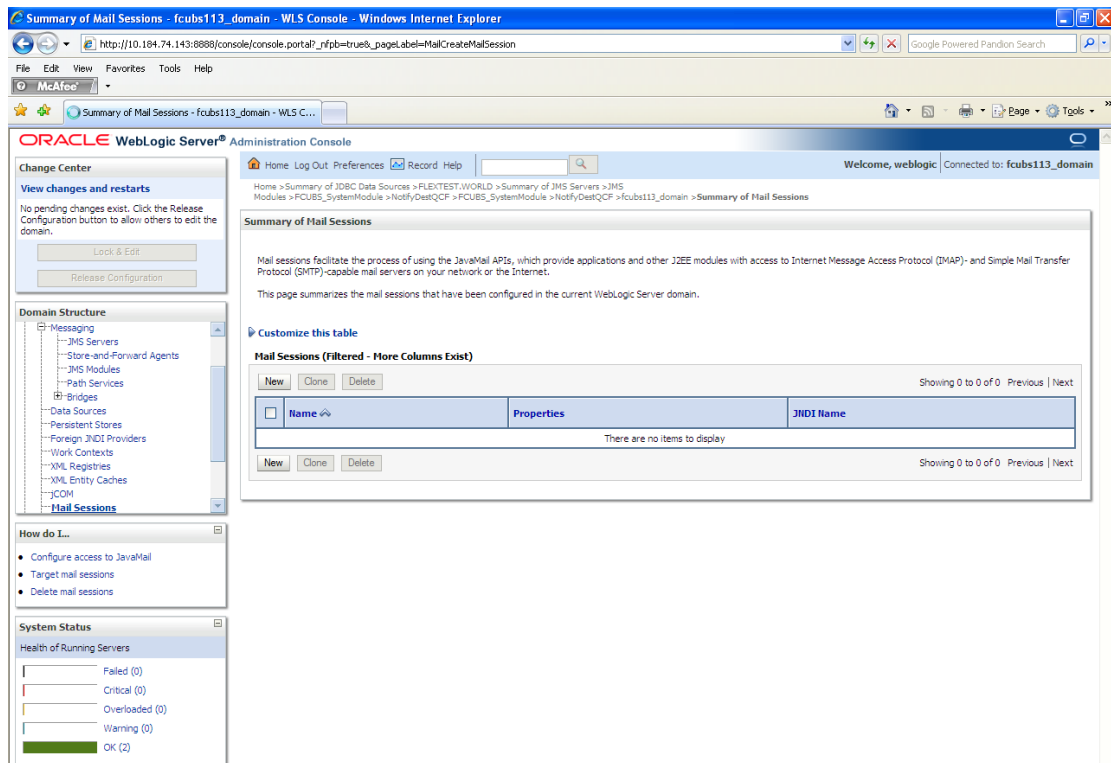
1. Expand 'Services' on the left pane of the application server. Click 'Mail Sessions'.

The screenshot shows the Oracle WebLogic Server Administration Console. The left pane displays the 'Domain Structure' tree with 'Mail Sessions' expanded. The main pane shows the 'Summary of Mail Sessions' page. The page includes a 'Change Center' section with 'Lock & Edit' and 'Release Configuration' buttons. Below this is the 'Domain Structure' tree. The 'Summary of Mail Sessions' section contains a table with columns 'Name', 'Properties', and 'JNDI Name'. The table is currently empty, showing 'There are no items to display'.

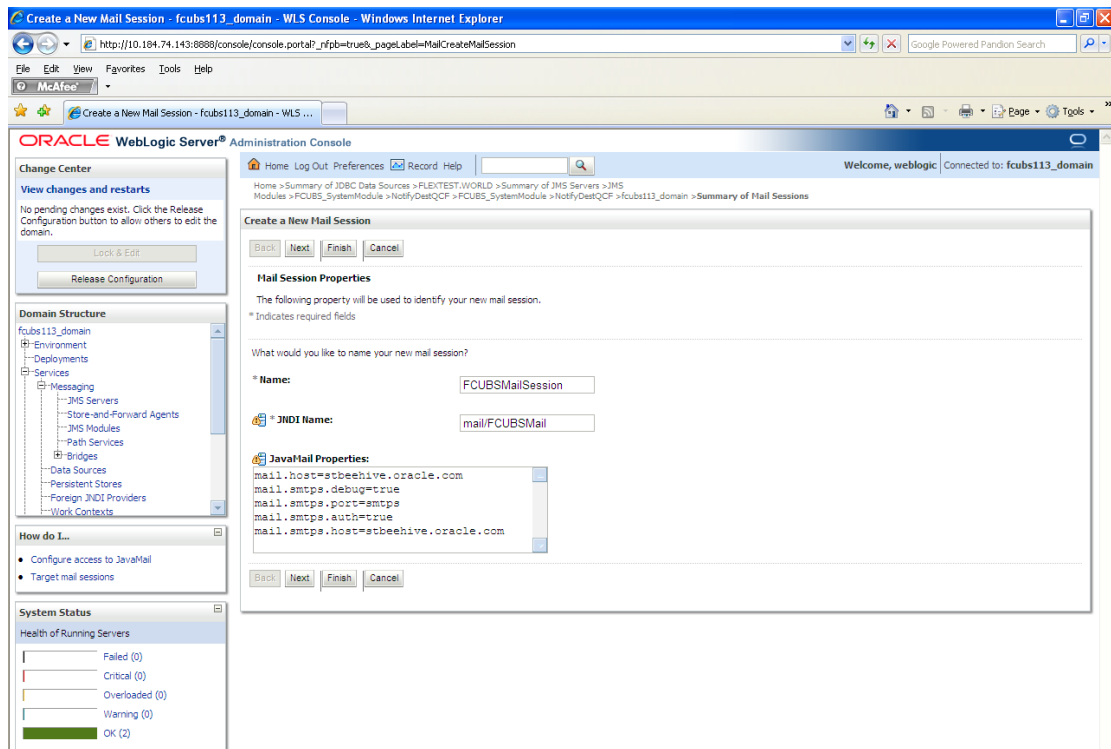
2. Click 'Lock & Edit'.

This screenshot is identical to the one above, showing the Oracle WebLogic Server Administration Console with the 'Summary of Mail Sessions' page. The 'Lock & Edit' button in the 'Change Center' is highlighted, indicating the next step in the process.

3. Following screen is displayed; Click 'New' for creating a new session.



4. Following screen is displayed.



5. Specify the required details to create a session. Sample details are given below:

Name

FCUBSMailSession

JNDI Name

mail/FCUBSMail



This JNDI name needs to be maintained in fcubs.properties file with encrypted format.

Java Mail Properties

mail.host=<HOST_MAIL_SERVER>

Eg: samplename.mail.com

mail.smtps.port=<SMTPS_SERVER_PORT>

Eg: 1010

mail.transport.protocol=<MAIL_TRANSFER_PROTOCOL>

Eg: smtps

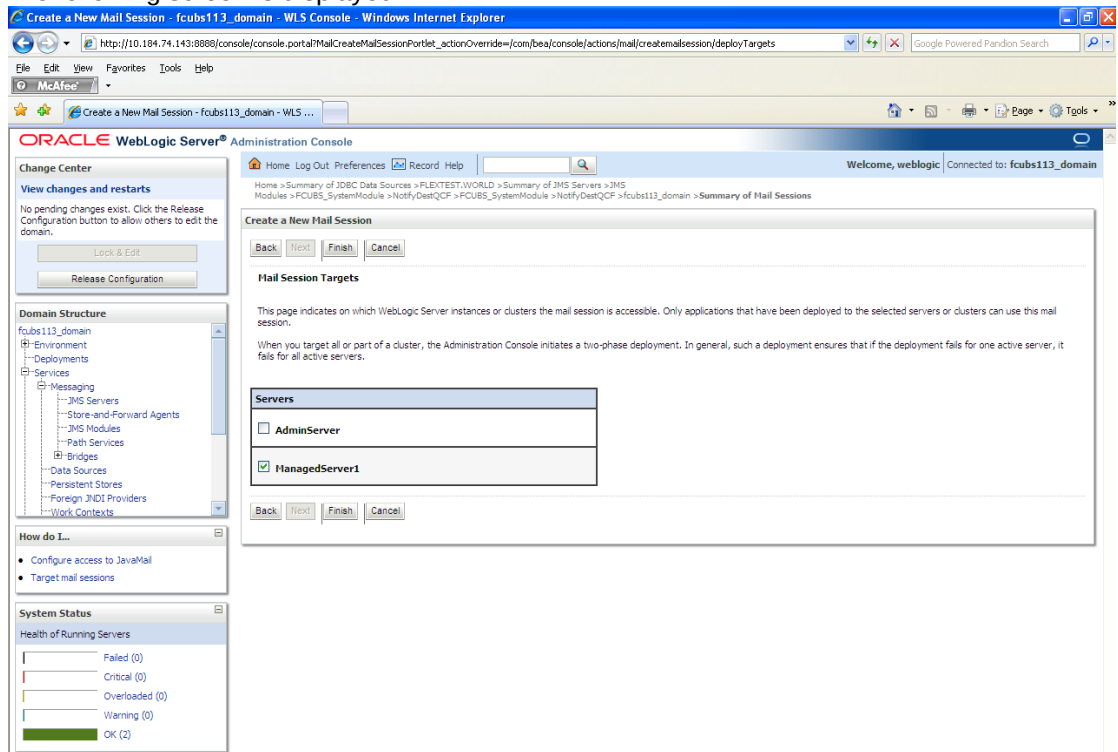
mail.smtps.auth=true

mail.smtps.host==<HOST_SMTPS_MAIL_SERVER>

Eg: samplename.mail.com

6. Click 'Next'.

The following screen is displayed.



7. Check the box against the required servers and click 'Finish' to complete the configuration.

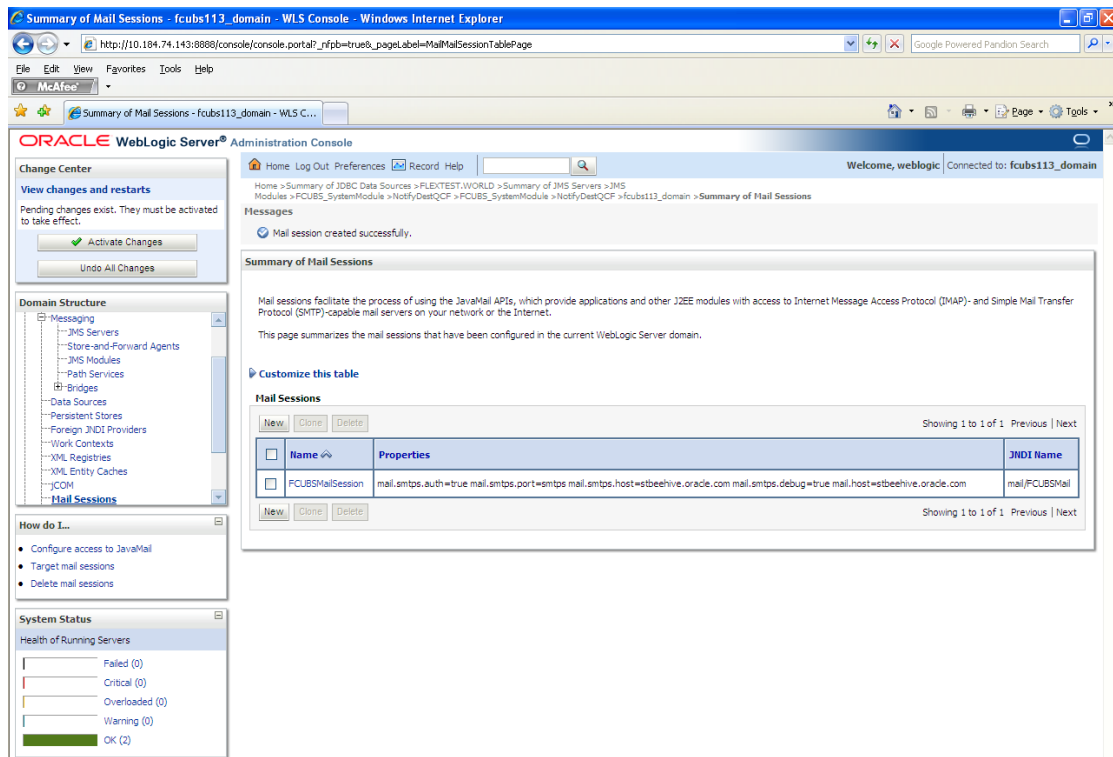


'fcubs.properties' file needs to be updated with the encrypted values of

- SMTP_HOST
- SMTP_USER
- SMTP_PASSWORD
- SMTP_JNDI

This can be achieved using the Oracle FLEXCUBE UBS Installer.

8. Click 'Active Changes' button to activate the current mail session settings.



7.5.2 Configuration of the TLS/SSL Trust Store for Weblogic Server

As described in the previous section, Oracle FLEXCUBE UBS uses SMTPS to send outgoing mails. SMTPS uses SSL to ensure transport-level security of the mail messages and hence, the certificate of the mail server needs to be imported into the trust store(s) of the Managed Servers where Oracle FLEXCUBE UBS is deployed.

The certificate of the mail server needs to be specifically imported into the trust store configured for the Managed Server(s), as configured in the Oracle FLEXCUBE UBS Installation guide titled 'SSL Configuration On Weblogic' (SSL_Configuration).

For further details on importing the certificate of the mail server into the trust store, refer to the documentation for the Sun Java keytool utility (Key and Certificate Management tool).



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