Oracle® Banking Corporate Lending Weblogic Configuration



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Oracle Banking Corporate Lending Weblogic Configuration, Release 14.8.0.0.0

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Preface

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Related Resources
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations

Purpose

This guide is designed to help acquaint you to configure SSL on Oracle Weblogic application server. This guide helps the user with the installation of Oracle Banking Application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Audience

Role	Function
Administrator	Who controls the system and application parameters and ensures smooth functionality and flexibility of the banking application.
Implementation team	Implementation of Oracle Banking Corporate Lending Solution
Pre-sales team	Install Oracle Banking Corporate Lending for demo purpose
Bank personnel	Who installs Oracle Banking Corporate Lending

The user of this manual is expected to have basic understanding of Oracle Banking Application installation.

Documentation Accessibility

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Related Resources

For more information on any related features, refer to the following documents:

- Oracle Banking Corporate Lending User Guides.
- Oracle Banking Corporate Lending Installation Guides.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Table 2 Conventions

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.



Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

 Table 3
 Acronyms and Abbreviations

Abbreviation	Description
СА	Certificate Authority
CSR	Certificate Signing Request
CN	Common Name
DN	Distinguished name
HTTP	Hypertext Transfer Protocol
JDBC	Java Database Connectivity
JDK	Java Development Kit
JKS	Java keystore
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
OHS	Oracle HTTP Server
RSA	Rivest–Shamir–Adleman
SMTP	Simple Mail Transfer Protocol
SSL	Secure Sockets Layer
TLS	Transport Layer Security

1 Configure SSL on Oracle Weblogic

This topic contains the following sub-topics:

- Set up SSL on Oracle Weblogic This topic describes tasks to set up SSL on Oracle Weblogic application server.
- Certificates and Keypairs
 This topic explains the certificates and keypairs used for validating the authenticity of the server.

1.1 Set up SSL on Oracle Weblogic

This topic describes tasks to set up SSL on Oracle Weblogic application server.

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

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

1.2 Certificates and Keypairs

This topic explains the certificates and keypairs used for validating the authenticity of the server.

Certificates are used for validating the authenticity of the server. Certificates contain the name of the owner, certificate usage, duration of validity, resource location, or distinguished name (DN), which includes the common name (CN - website address or e-mail address depending on the usage) and the certificate ID of the person who certified (signs) this 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 key tool 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, the 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 the Oracle Weblogic server to configure SSL.

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

2 Choose the Identity and Trust Stores

This topic explains to choose the identity and trust stores.

Oracle Financial Services Software recommends that the choice of Identity and Trust stores be made upfront. 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 are located in the JAVA_HOME/jre/lib/security directory. It is highly recommended to change the default Java standard trust store password from change the password (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 to the Oracle Weblogic Server documentation on Securing Oracle Weblogic Server.



3 Obtain the Identity Store

This topic contains the following sub-topics:

- Create Identity Store with Self-Signed Certificates This topic describes the creation of identity store along with Self-signed certificates.
- Create Identity Store with Trusted Certificates Issued by CA This topic explains to create identity store with trusted certificates issued by CA.

3.1 Create Identity Store with Self-Signed Certificates

This topic describes the creation of identity store along 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.

To create a self-signed certificate, the genkey pair option provided by the keytool utility of Sun Java 6 needs to be utilized.

This topic contains the following sub-topic:

• Creation of Self-Signed Certificate This topic describes the creation of self-signed certificate.

3.1.1 Creation of Self-Signed Certificate

This topic describes the creation of self-signed certificate.

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

 Table 3-1
 Attributes of the certificate and Keystore

Attributes	Description
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.



Attributes	Description
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 the Oracle Weblogic Server.
First and Last Name (CN)	Enter the domain name of the machine used to access Oracle Banking Corporate Lending, for instance, www.example.com
Name of your Organizational Unit	The name of the department or unit making the request, for example, BPD. Use this field to identify the SSL Certificate you are creating, for example, by department or by the physical server.
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.
Name of your City or Locality	The city in which your organization is physically located, for example, Mumbai.
Name of your State or Province	The state/province in which your organization is physically located, for example, Maharashtra.
Two-Letter Country Code for this Unit	The country in which your organization is physically located, for example, US, UK, IN, etc.

Table 3-1	(Cont.) Attributes of the certificate and Keystore
-----------	--

Note:

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 the Oracle Weblogic Server.

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 Create Identity Store with Trusted Certificates Issued by CA

This topic explains to create identity store with trusted certificates issued by CA.

This topic contains the following sub-topics:

- Creation of Public and Private Key Pair
 This topic provides the detailed information on creation of public and Private Key Pair.
- Generate CSR This topic provides the information to generate CSR.
- Obtain Trusted Certificate from CA
 This topic explains to obtain trusted certificate from CA.
- Import Certificate into Identity Store This topic describes the information on importing certificate into identity store.

3.2.1 Creation of Public and Private Key Pair

This topic provides the detailed information on creation of public and Private Key Pair.

Browse to the bin folder of JRE from the command prompt and type the following 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.
- keyalg is the key algorithm used to generate the public and private key pair. The RSA key algorithm is recommended.
- 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.
- 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:



Attributes	Description	
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.	
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 the Oracle Weblogic Server.	
First and Last Name (CN)	Enter the domain name of the machine used to access Oracle Banking Corporate Lending, for instance, www.example.com	
Name of your Organizational Unit	The name of the department or unit making the request, for example, BPD. Use this field to identify the SSL Certificate you are creating, for example, by department or by the physical server.	
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.	
Name of your City or Locality	The city in which your organization is physically located, for example, Mumbai.	
Name of your State or Province	The state/province in which your organization is physically located, for example, Maharashtra.	
Two-Letter Country Code for this Unit	The country in which your organization is physically located, for example, US, UK, IN, etc.	

Table 3-2 Attributes of the certificate and Keyste
--

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 Generate CSR

This topic provides the information to generate 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.

Note:

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,
```

- 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.

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

```
D:\Oracle\Weblogic11g\jrockit_160_05_R27.6.2-20\bin>keytool -certreq -
alias cvrhp0729 -file D:\keystores\certreq.csr -
keystoreD:\keystores\FCUBSKeyStore.jks
```

Enter keystore password: [Enter the password used to access the keystore] Enter key password for <cvrhp0729> (RETURN if same as keystore password): [Enter the password used to access the key in the keystore]

3.2.3 Obtain Trusted Certificate from CA

This topic explains to obtain 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 Import Certificate into Identity Store

This topic describes the information on 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 is 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.

This topic contains the following sub-topics:

- Import Intermediate CA certificate
 This topic provides detailed information on importing Intermediate CA certificate into keystore.
- Import Identity Certificate
 This topic describes the information on importing identity certificate into keystore.

3.2.4.1 Import Intermediate CA certificate

This topic provides detailed information on importing Intermediate CA certificate into keystore.

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,
```

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.
- 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 -
fileD:\keystores\VerisignIntermediateCA.cer -trustcacerts -
keystoreD:\keystoreworkarea\FCUBSKeyStore.jks
```

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



Certificate was added to keystore.

3.2.4.2 Import Identity Certificate

This topic describes the information on importing identity certificate into keystore.

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.
- 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 was added to 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 the identity store, depending on factors including the trustworthiness of the CA, the necessity of transporting the trust store across the machine, among others.

Configure Identity and Trust Stores for Weblogic

This topic contains the following sub-topics:

- Enable SSL on Oracle Weblogic Server This topic explains the systematic instructions to enable SSL on Oracle Weblogic Server.
- Configure Identity and Trust Stores
 This topic provides the systematic instructions to configure identity and trust stores.

4.1 Enable SSL on Oracle Weblogic Server

This topic explains the systematic instructions to enable SSL on Oracle Weblogic Server.

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

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

4.2 Configure Identity and Trust Stores

This topic provides the systematic instructions to configure identity and trust stores.

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

- 1. Click the Lock & Edit button under Change Center.
- 2. Expand the Servers node.
- Select the name of the server for which you want to configure the keystores (example exampleserver).
- 4. Go to Configuration and select the Keystores tab.
- In the field 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:
 - a. Custom Identity Keystore File Name: Fully qualified path to the Identity keystore.



- b. Custom Identity Keystore Type: Set this attribute to JKS, the type of the keystore. If left blank, it defaults to JKS (Java KeyStore).
- c. 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 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:

- a. Custom Trust Keystore: The fully qualified path to the trust keystore.
- **b.** Custom Trust Keystore Type: Set this attribute to JKS, the type of the keystore. If left blank, it defaults to JKS (Java KeyStore).
- c. 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 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.

Note:

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

5

Configure SSL Attributes for Managed Servers

This topic explains to set SSL attributes for managed servers.

This topic contains the following sub-topics:

 Set SSL Attributes for Private Key Alias and Password This topic explais the systematic instruction to set SSL attributes for private key alias and password.

5.1 Set SSL Attributes for Private Key Alias and Password

This topic explais the systematic instruction to set SSL attributes for private key alias and password.

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

- 1. Click the Lock & Edit button under Change Center.
- 2. Expand the **Servers** node.
- Select the name of the server for which you want to configure the keystores (example exampleserver).
- 4. Go to Configuration and select the SSL tab.
- 5. Select Keystores from Identity and Trust Locations.
- Under Identity section, specify the following details:
 - a. **Private Key Alias:** Set this attribute to the alias name defined for the key pair when creating the key pair in the Identity keystore.
 - b. 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. Click Activate Changes button under Change Center.
- Go to the controls tab, check the appropriate server, and click Restart SSL. Confirm when it prompts.



6 Test Configuration

This topic explains to test the application after configuring with Oracle Weblogic for SSL.

Once the Oracle Weblogic has been configured for SSL, deploy the application in the usual manner. The application can be tested in SSL mode after deployment. To launch the application in SSL mode, enter the URL in the following format:

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

It is recommended that the Oracle Banking Corporate Lending web application be accessed via the HTTPS channel instead of the HTTP channel.



7 Create Resources on Weblogic

This topic explains the steps to deploy the Oracle Banking Corporate Lending application and gateway application in the application server.

This topic contains the following sub-topics:

- Resource Administration
 This topic explains the process of resource administration on Oracle Weblogic.
- Configure Weblogic for PMGateway This topic explains to configure Weblogic for PMGateway.
- Configure Weblogic for Oracle Banking Corporate Lending This topic provides the systematic instructions to configure the Oracle WebLogic application server for Oracle Banking Corporate Lending.
- Configure Mail Session in Weblogic
 This topic describes the set of configurations changes required in the Oracle Weblogic
 Server when Oracle Banking Corporate Lending is configured to generate and send
 passwords to users via e-mail.

7.1 Resource Administration

This topic explains the process of resource administration on Oracle Weblogic.

All the resources are mentioned in the *Resources To be Created* guide that need to be created before deployment.

One example for each category is explained in the following sub-topics.

Create Data Source
This topic evplains methods to create data

This topic explains methods to create data sources.

- Create JMS Server This topic explains the systematic instructions to create the JMS server in the Weblogic application server.
- Create JMS Modules This topic explains the systematic instructions to create the JMS Modules in the Weblogic application server.
- Create Subdeployment

This topic explains the systematic instructions to create the subdeployment in the Weblogic application server.

 Create JMS Queue This topic provides the systematic instructions to create the JMS Queue in the Weblogic application server.

Create JMS Connection Factory This topic explains the systematic instructions to create the JMS Connection Factory in the Weblogic application server.



7.1.1 Create Data Source

This topic explains methods to create data sources.

This topic contains the following sub-topics:

- Prerequisites This topic explains the prerequities details to create data source.
- XA Enabled Data Source This topic provides the systematic instructions to create the XA enabled data source in the Weblogic application server.
- Non-XA Enabled Data Source
 This topic provides the systematic instructions to cr

This topic provides the systematic instructions to create the Non-XA enabled data source in the Weblogic application server.

7.1.1.1 Prerequisites

This topic explains the prerequities details to create data source.

To create the data source, the OCI needs to be enabled. For this, download Oracle Instant Client and install it. The details are given below:

Table 7-1 Oracle Instant Client

Package Download Location		Remarks
Oracle Instant Client Package	https://www.oracle.com/ database/technologies/ instant-client/downloads.html	Install Oracle Instant Client in a local directory. While configuring Weblogic for Windows or Unix/Linux box, the user needs to provide the directory path where Instant Client is installed.

The user needs to do the data source configuration with the 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 setDomainEnv.bat. This must be the directory path 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 setDomainEnv.sh. This must be the directory path 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 setDomainEnv.sh.

If the target database is Autonomous Database then configure the TNS_ADMIN in the DB client of the Application server with the Autonomous Database Wallet given by the Database Administrator.

7.1.1.2 XA Enabled Data Source

This topic provides the systematic instructions to create the XA enabled data source in the Weblogic application server.

To create the XA enabled data source, follow the steps below:

1. Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console

The Oracle Weblogic Server - Welcome screen displays.

ORACLE' WebLogic Server Administration Console 12c		
120	Wekome Log in to work with the WebLagi: Serve Username: Password:	r domain

Figure 7-1 Oracle Weblogic Server - Welcome

2. Specify the WebLogic administrator Username, Password and click Log In.

The Oracle Weblogic Server - Home Page screen displays.



Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domai					
View changes and restarts	Home						
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page						
Lock & Edit	- Information and Resources						
	Helpful Tools	General Information					
	 Configure applications 	 Common Administration Task Descriptions 					
	Configure GridLink for RAC Data Source Read the documentation						
omain Structure	 Recent Task Status 	 Ask a question on My Oracle Support 					
ubs113_domain }-Environment	Set your console preferences	Orade Guardian Overview					
Deployments Services	- Domain Configurations						
-Security Realms	Domain	Services	Interoperability				
-Interoperability -Diagnostics	Domain	Messaging	WTC Servers				
Diagnostics		 JMS Servers 	Jolt Connection Pools				
	Environment	 Store-and-Forward Agents 					
	Servers	 JMS Modules 	Diagnostics				
	Clusters	 Path Services 	Log Files				
	Virtual Hosts	 Bridges 	Diagnostic Modules				
	Migratable Targets	Data Sources	Diagnostic Images				
ow do I	Coherence Servers	 Persistent Stores 	Request Performance				
	Coherence Clusters	XML Registries	Archives				
Search the configuration	Machines	 XML Entity Caches 	Context				
Use the Change Center	Work Managers	 Foreign JNDI Providers 	 SNMP 				
Record WLST Scripts	Startup And Shutdown Classes	 Work Contexts 					
Change Console preferences		• jCOM	Charts and Graphs				
Monitor servers	Your Deployed Resources	 Mail Sessions 	 Monitoring Dashboard Ø 				
	Deployments	FileT3					
ystem status		• JTA					
ealth of Running Servers	Your Application's Security Settings						
Failed (0)	Security Realms						
Critical (0)							
Overloaded (0)							
Warning (0)							

Figure 7-2 Oracle Weblogic Server - Home Page

- 3. Under the **Change Center**, click on the **Lock & Edit** button.
- 4. Go to Data Sources.

The Summary of JDBC Data Sources screen displays.

Change Center	Home	e Log Out Preferences 🛃 Record	Help	<u>.</u>	Welcome, weblogic	Connected to: fcubs113_doma
View changes and restarts	Home >	Summary of JDBC Data Sources				
No pending changes exist. Click the Release Configuration button to allow others to edit the	Summar	ry of JDBC Data Sources				
domain.		uration Monitoring				
Release Configuration	A JDBC	C data source is an object bound to th v a database connection from a data s	e JNDI tree that provides databas source.	e connectivity through a pool of JDBC conne	ections. Applications can look up a data sour	rce on the JNDI tree and then
Domain Structure	This pa	age summarizes the JDBC data source	objects that have been created in	n this domain.		
cubs113_domain	<u>.</u>					
Environment Deployments	Custo	omize this table				
E-Services	Data S	Sources (Filtered - More Columns	Exist)			
Messaging Data Sources Persistent Stores	New	▼ Delete			Showir	ng 1 to 2 of 2 Previous Next
Foreign JNDI Providers		Name 🏟	Туре	JNDI Name	Targets	
XML Registries XML Entity Caches		FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer 1	
		FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer1	
File T3	New	▼ Delete			Showir	ng 1 to 2 of 2 Previous Next
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)	1					

Figure 7-3 Summary of JDBC Data Sources

5. On the left pane, under **Domain Structure**, expand **Services** and then **Data Sources** under it. Click the **Lock & Edit** button.

The Summary of JDBC Data Sources - Configuration screen displays.



DRACLE WebLogic Serve	Administration Console	1		
hange Center	🔒 Home Log Out Preferences 🔤 Record Help		Q	Welcome, weblogic Connected to: fcubs113_do
iew changes and restarts	Home >Summary of JDBC Data Sources			
o pending changes exist. Click the Release onfiguration button to allow others to edit th	Summary of JDBC Data Sources			
omain.	Configuration Monitoring			
Release Configuration	A JDBC data source is an object bound to the JNI borrow a database connection from a data source	DI tree that provides databa e.	ase connectivity through a pool of JDBC connecti	ions. Applications can look up a data source on the JNDI tree and then
omain Structure	This page summarizes the JDBC data source obje	cts that have been created	in this domain.	
Environment Deployments	Customize this table			
Services	Data Sources (Filtered - More Columns Exis	st)		
Messaging Data Sources	New Y Delete			Showing 1 to 2 of 2 Previous Nex
Persistent Stores	Generic Data Source			
Foreign JNDI Providers Work Contexts	GridLink Data Source	Туре	JNDI Name	Targets
-XML Registries	Multi Data Source	Generic	jdbc/fcjdevDS	ManagedServer 1
XML Entity Caches 	FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer 1
Mail Sessions	FCUBS113Branch	Generic	Jube/rejuevosbranen	Managedser ver 1
THE IS	New V Delete			Showing 1 to 2 of 2 Previous Nex
ow do I	8			
Create JDBC generic data sources				
Create JDBC GridLink data sources				
Create JDBC multi data sources				
Delete JDBC data sources Delete JDBC multi data sources				
Delete JDBC multi data sources				
vstem Status				
ealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
overloaded (0)				
Warning (0)				

Figure 7-4 Summary of JDBC Data Sources - Configuration

6. To create a new data source, click **New** and select **Generic Data Source** from the dropdown.

The Create a New JDBC Data Source screen displays.

onfiguration button to allow others to edit the omain.			Welcome, weblogic Connected to: fcubs113_domain				
o pending changes exist. Click the Release onfiguration button to allow others to edit the omain.		ta Sources					
onfiguration button to allow others to edit the omain.	Create a New JDBC Data So	Home >Summary of JDBC Data Sources					
	Back Next Finish C	ation button to allow others to edit the					
Lock & Edit							
	JDBC Data Source Prope	rties					
Release Configuration	The following properties will b	e used to identify your new JDBC data source.					
	* Indicates required fields						
omain Structure							
ubs113_domain	What would you like to name y	/our new JDBC data source?					
Deployments							
Services	🏀 * Name:	FLEXTEST.WORLD					
-Messaging -Data Sources							
-Persistent Stores	What JNDT name would you like to assign to your new JDBC Data Source?						
Foreign JNDI Providers							
Work Contexts	FLEXTEST . WORLD						
XML Registries	TERILDI.WORDD						
-jCOM							
Mail Sessions							
File T3							
ow do I							
Create JDBC generic data sources	What database type would yo	u lke to select?					
Create LLR-enabled JDBC data sources							
	Database Type:	Oracle					
/stem Status	Back Next Finish C	ancel					
ealth of Running Servers	UBCK NCAL FINISH	aicei					
Failed (0)							
Critical (0)							
Overloaded (0)							
Warning (0)							
OK (2)							

Figure 7-5 Create a New JDBC Data Source

For more information on fields, refer to the field description table.



Field	Description
JDBC Datasource Name	Name of the data source.
JNDI Name	JNDI name which will be used for lookup.
Database Type	Specify the database type as Oracle from the drop-down list.

7. Click Next.

The JDBC Data Source Properties screen displays.

Figure 7-6 JDBC Data Source Properties

Home Log Out Preference	ces 🗠 Record Help	Welcome, weblogic Connected to: FC141INSTES
Home >Summary of Services >5	Summary of JDBC Data Sources	
reate a New JDBC Data So	nurce	
Back Next Finish	Cancel	
JDBC Data Source Proper	rties	
The following properties will	l be used to identify your new JDBC data source.	
Database Type:	Oracle	
What database driver would y	you like to use to create database connections? Note: " indicates that the driver is explicitly supported by Oracle WebLogic Server.	
Database Driver:	*Oracle's Driver (Thin XA) for Service connections; Versions:Any	
and the second languages have		
	Cancel	

8. Select the database driver from the drop-down list and click Next.

The Create a New JDBC Data Source - Transaction Options screen displays.

Figure 7-7	Create a New JI	DBC Data Source -	Transaction Options
------------	-----------------	-------------------	---------------------

Change Center	🟦 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Frish Cancel
Lock & Edit	Transaction Options
Release Configuration	ramaction uptions You have selected an XA JOSE driver to use to create database connection in your new data source. The data source will support global transactions and use the "Two-Phase Commit" global transaction protocol. No other transaction configuration options are available.
Domain Structure	
fcubs113_domain	Back Next Frist Cancel
Deployments	
Services	
Data Sources	
Persistent Stores	
Foreign JNDI Providers	
Work Contexts	
XML Registries	
XML Entity Caches	
COM	
Mail Sessions	
How do I	
Create JDBC generic data sources	
Create LLR-enabled JDBC data sources	
System Status	
Health of Running Servers	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
warning (0)	

9. On the Create a New JDBC Data Source - Connection Properties screen, specify the Database Name, Host Name, Port of the database server to connect, Database User Name, Password. and Confirm password.

The Create a New JDBC Data Source - Connection Properties screen displays.



Change Center	🔒 Home Log Out Preferences 🔤 Record I	Help Q	Welcome, weblogic Connected to: fcubs113_domai	
View changes and restarts	Home >Summary of JDBC Data Sources			
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Frish Cancel			
Release Configuration	Connection Properties Define Connection Properties.			
Domain Structure	What is the name of the database you would li	ke to connect to?		
cubs113_domain -Environment -Deployments	Database Name:	KERDEV2		
⊖-Services ⊕-Messaging	What is the name or IP address of the databas	e server?		
Data Sources Persistent Stores Foreign JNDI Providers	Host Name:			
	What is the port on the database server used to connect to the database?			
	Port:	1010		
	What database account user name do you war	nt to use to create database connections?		
How do I E	Database User Name:	FCPB1121		
Create JDBC generic data sources Create LLR-enabled JDBC data sources	What is the database account password to use	to create database connections?		
System Status	Password:	•••••		
Health of Running Servers	Confirm Password:	•••••		
Failed (0)				
Critical (0)	Back Next Finish Cancel			
Overloaded (0)				
Warning (0)				

Figure 7-8 Create a New JDBC Data Source - Connection Properties

10. Click Next.

The Create a New JDBC Data Source - Test Database Connection screen displays.

ORACLE WebLogic Server	Administration Console		Ģ
Change Center	🔒 Home Log Out Preferences 🔤 Re	cord Help	Welcome, weblogic Connected to: DefaultDoma
View changes and restarts	Home >Summary of JDBC Data Source	s	
Configuration editing is enabled. Future hanges will automatically be activated as you nodify, add or delete items in this domain.	Create a New JDBC Data Source Test Configuration Back Next	Finish	
Domain Structure	Test Database Connection		
efaultDomain Environment	Test the database availability and the	connection properties you provided.	
→Deployments ⇒Services ⊕-Messaging ⊖-JDBC		kiver dass used to create database connections in the connection pool? e dasspath of any server to which it is deployed.)	
Data Sources Multi Data Sources Data Source Factories	Driver Class Name:	oracle.jdbc.OracleDriver	
Persistent Stores Foreign JNDI Providers Coherence Clusters	What is the URL of the database to com	nect to? The format of the URL varies by JDBC driver.	
Work Contexts	What database account user name do v	ou want to use to create database connections?	
low do I E	Database User Name:	FCPB1121	
Create JDBC data sources Create LLR-enabled JDBC data sources			
Svetem Status		to use to create database connections? It, enter the password in the Password field instead of the Properties field be	(uoli
	Croter for becare patienter e managemen		on y
Health of Running Servers Failed (0)	Password:	•••••	
Critical (0) Overloaded (0) Warning (0)	Confirm Password:	•••••	
OK (1)	What are the properties to pass to the : Properties:	IDBC driver when creating database connections?	
	user=FCPB1121		

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

Test Table Name

12. Specify the URL as jdbc:oracle:thin:@10.10.10.10.1001<INSTANCE_NAME>.

What table name or SQL statement would you like to use to test database connections?

If the target database is Autonomous Database then, the URL Format to connect to Autonomous Database must be as follows: Jdbc:oracle:thin:@<Database Service Connect string >?TNS_ADMIN=<TNS ADMIN PATH>



- **13.** Specify the Database username (Eg: FCPB1121) and password.
- **14.** Confirm the password.
- **15.** Click the **Test Configuration** button.
- 16. If the connection is established successfully,

A message displays on the Create a New JDBC Data Source screen confirming that Connection test succeeded.

Figure 7-10 Create a New JDBC Data Source - Message

	Home Log Out Preferences Record H	Help	Welcome, weblogic Connected to: fcubs113 domain
hange Center			welcome, weblogic connected to. redust15_domain
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	e 🖉 Connection test succeeded.		
Lock & Edit	Create a New JDBC Data Source		
Release Configuration	Test Configuration Back Next Finish	Cancel	
Domain Structure	Test Database Connection		
	Test the database availability and the connect	tion properties you provided.	
Environment Deployments	What is the full package name of JDBC driver d	lass used to create database connections in the connection pool?	
E-Services	(Note that this driver class must be in the class	path of any server to which it is deployed.)	
Data Sources Persistent Stores Foreign JNDI Providers	Driver Class Name:	oracle.jdbc.OracleDriver	
Work Contexts	What is the URL of the database to connect to	? The format of the URL varies by JDBC driver.	
XML Entity Caches 	URL:	jdbc:oraclethin:@10.10.10.	
File T3	What database account user name do you war	nt to use to create database connections?	
How 00 1	Database User Name:	FCPB1121	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	What is the database account password to use	to create database connections?	
	Alabai far san us anseured management, ante	er the password in the Password field instead of the Properties field belo	
System Status	(Note: for secure password management, enter	a die passifora in die Passifora nata instead of die Prope des nata beo	")
Health of Running Servers	Password:	••••••	
Failed (0) Critical (0)	Confirm Password:	•••••	
Overloaded (0)			
Warning (0) OK (2)	What are the properties to pass to the JDBC de	river when creating database connections?	
	Properties: user=FCPB1121		

17. Click Next.

The Create a New JDBC Data Source - Select Targets screen displays.



hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domai
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the forman. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Tenan Cancel Select Targets You can select one or more targets to deploy your new JDBC data source. If you don't select a later time.	ect a target, the data source will be created but not deployed. You will need to deploy the data source at
Domain Structure cubs113 domain		
Prenvironment	Servers	
Deployments Services	AdminServer	
Derives Thessaging Data Sources Persitent Stores Foreign 2NDI Providers Work Contexts "XNR. Reportings "XNR. Lentry Caches "COM	Back Text Email Cancel	
How do I		
Create JDBC generic data sources		
Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers		
Failed (0) Critical (0)		
Overloaded (0)		
Warning (0) OK (2)		

Figure 7-11 Create a New JDBC Data Source - Select Targets

18. Check the boxes against the required servers and click **Finish**.

The Summary of JDBC Data Sources - New Data Source screen displays.

Figure 7-12	Summary of JDBC Data Sources - New Data Source
-------------	--

ange Center	- F	Home Log Out Preferences 🔤 Re	cord Help	2	Welcome, weblogic Connected to: fcubs113_dom
ew changes and restarts	Hon	me >Summary of JDBC Data Source			
nding changes exist. They must be activated take effect.	d Sum	mary of JDBC Data Sources			
Activate Changes	Con	figuration Monitoring			
Undo All Changes	A	JDBC data source is an object bound rrow a database connection from a c	to the JNDI tree that provides databa	se connectivity through a pool of JDBC conne	ections. Applications can look up a data source on the JNDI tree and then
main Structure ps113_domain			surce objects that have been created i	n this domain.	
Environment	<u></u>				
Deployments	D Cu	istomize this table			
Services	Dat	ta Sources (Filtered - More Colu	mns Frist)		
Data Sources			initis exise)		
Persistent Stores	N	lew V Delete			Showing 1 to 3 of 3 Previous Next
Foreign JNDI Providers		-			
Work Contexts		🗌 Name 🗠	Туре	JNDI Name	Targets
ML Registries		FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer 1
XML Entity Caches		PC0b5113	Generic	Jabc//cjuevos	ManagedServer 1
Mail Sessions		FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer 1
File T3		-			
w do I		FLEXTEST.WORLD	Generic	FLEXTEST.WORLD	AdminServer
Create JDBC generic data sources	N	lew Y Delete			Showing 1 to 3 of 3 Previous Next
Create JDBC GridLink data sources					
Create IDBC multi data sources					
Delete IDBC data sources					
Delete 10BC multi data sources					
belete 3000 mara data sources					
stem Status	•				
alth of Running Servers					
Failed (0)					
Critical (0)					
Overloaded (0)	1				
	1				
Warning (0)	1				
OK (2)	1				

19. Click the **Activate Changes** button on the left pane.

The message displays on the Summary of JDBC Data Sources screen confirming that All the changes have been activated. No restarts are necessary.



ORACLE WebLogic Server®				Ģ	
Change Center	🙆 Home Log Out Preferences 🔤 Record Help	G		Welcome, weblogic Connected to: fcubs113_dom	
View changes and restarts Click the Lock & Edit button to modify, add or delete items in this domain.	Home >Summary of JDBC Data Sources Messages & All changes have been activated. No restarts a	ire necessary.			
Lock & Edit	Summary of JDBC Data Sources				
Release Configuration	Configuration Monitoring				
Domain Structure CubS113 domain	A JDBC data source is an object bound to the JM borrow a database connection from a data source This page summarizes the JDBC data source obje b Customize this table Data Sources (Filtered - More Columns Exit Click the <i>Lock & Editbutton</i> in the Change Center	e. cts that have been created in it)	this domain.	ons. Applications can look up a data source on the 3ND1 tree and then	
XML Entity Caches	New Delete				
Mail Sessions	🔲 Name 🗞	Туре	JNDI Name	Targets	
How do I	FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer1	
Create JDBC generic data sources	FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer1	
Create JDBC GridLink data sources Create JDBC multi data sources	FlexTest.WORLD	Generic	FLEXTEST.WORLD	AdminServer	
Delete JDBC data sources Delete JDBC multi data sources	New V Delete			Showing 1 to 3 of 3 Previous Next	
System Status	1				
Health of Running Servers					
Failed (0) Critical (0) Overloaded (0)					

Figure 7-13 Summary of JDBC Data Sources - Activate Changes Message

Refer to Resources_To_ Be_Created guide for the list of XA data sources to be created.

A new **Data Source** is created.

7.1.1.3 Non-XA Enabled Data Source

This topic provides the systematic instructions to create the Non-XA enabled data source in the Weblogic application server.

To create the Non-XA enabled data source, follow the steps given below:

 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console.

The Oracle Weblogic Server - Welcome screen displays.



Figure 7-14 Oracle Weblogic Server - Welcome

 Specify the WebLogic administrator Username, Password and click Log In. The Oracle Weblogic Server - Home Page screen displays.

Change Center	Home Log Out Preferences 🗠 Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
	Helpful Tools	General Information	
	Configure applications	 Common Administration Task Descriptions 	
	Configure GridLink for RAC Data Source	 Read the documentation 	
oomain Structure	 Recent Task Status 	 Ask a question on My Oracle Support 	
ubs113_domain E-Environment	 Set your console preferences 	Oracle Guardian Overview	
Deployments IServices	- Domain Configurations		
- Security Realms	Domain	Services	Interoperability
Interoperability	Domain	Messaging	WTC Servers
Diagnostics		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
	Clusters	 Path Services 	Log Files
	Virtual Hosts	 Bridges 	Diagnostic Modules
	Migratable Targets	Data Sources	Diagnostic Images
How do I	Coherence Servers	Persistent Stores	Request Performance
	Coherence Clusters	XML Registries	Archives
Search the configuration	Machines	XML Entity Caches	Context
Use the Change Center	Work Managers	 Foreign JNDI Providers 	SNMP
Record WLST Scripts	Startup And Shutdown Classes	Work Contexts	
Change Console preferences		• jCOM	Charts and Graphs
Monitor servers	Your Deployed Resources	Mail Sessions	Monitoring Dashboard
	Deployments	FileT3	
System Status		• JTA	
Health of Running Servers	Your Application's Security Settings		
Failed (0)	Security Realms		
Critical (0)			
Overloaded (0)			
Warning (0)			

Figure 7-15 Oracle Weblogic Server - Home Page

3. Go to Data Sources.

The Summary of JDBC Data Sources screen displays.



Change Center	Home	e Log Out Preferences 🔤 Record He	elp	a	Welcome, weblogic Connected to: fcubs113_dom
View changes and restarts	Home >	Summary of JDBC Data Sources			
lo pending changes exist. Click the Release	Summar	y of JDBC Data Sources			
Configuration button to allow others to edit the lomain.		uration Monitoring			
Lock & Edit		-			
Release Configuration	A JDBC	C data source is an object bound to the 2 v a database connection from a data sou	INDI tree that provides datab rce.	ase connectivity through a pool of JDBC connect	tions. Applications can look up a data source on the JNDI tree and then
omain Structure	This pa	age summarizes the JDBC data source ob	jects that have been created	in this domain.	
		mize this table Sources (Filtered - More Columns E	xist)		
Messaging Data Sources	New	▼ Delete			Showing 1 to 2 of 2 Previous Next
Persistent Stores Foreign JNDI Providers Work Contexts		Name 🙈	Туре	JNDI Name	Targets
XML Registries XML Entity Caches		FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer1
		FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer1
File T3	New	▼ Delete			Showing 1 to 2 of 2 Previous Next
low do I	8				
Create JDBC generic data sources					
Create JDBC GridLink data sources Create JDBC multi data sources					
Delete JDBC data sources					
Delete JDBC multi data sources					
vstem Status					
ealth of Running Servers					
Failed (0)					
Critical (0)					
Overloaded (0)					
Overloaded (0)					

Figure 7-16 Summary of JDBC Data Sources

4. On the left pane, under **Domain Structure**, expand **Services** and then **Data Sources** under it. Click the **Lock & Edit** button.

The Summary of JDBC Data Sources - Configuration screen displays.

Figure 7-17	Summary of JDBC Dat	a Sources - Configuration
-------------	---------------------	---------------------------

Change Center	🙆 Home Log Out Preferences 🔤 Record Help	G	L	Welcome, weblogic Connected to: fcubs113_dom
/iew changes and restarts	Home >Summary of JDBC Data Sources			
to pending changes exist. Click the Release Configuration button to allow others to edit the	Summary of JDBC Data Sources			
ioninguration button to allow others to edit the	Configuration Monitoring			
Release Configuration	A JDBC data source is an object bound to the JNDI borrow a database connection from a data source.	I tree that provides databas	e connectivity through a pool of JDBC conn	ections. Applications can look up a data source on the JNDI tree and then
omain Structure	This page summarizes the JDBC data source object	ts that have been created in	n this domain.	
ubs113_domain				
Environment Deployments	Customize this table			
-Services	Data Sources (Filtered - More Columns Exist	.)		
Messaging Data Sources	New - Doleto			Showing 1 to 2 of 2 Previous Next
Persistent Stores	Generic Data Source			
Foreign JNDI Providers Work Contexts	GridLink Data Source	Туре	JNDI Name	Targets
XML Registries	Multi Data Source	Generic	jdbc/fcjdevDS	ManagedServer1
XML Entity Caches 	FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer 1
Mail Sessions File T3				
	New V Delete			Showing 1 to 2 of 2 Previous Next
iow do I				
Create JDBC generic data sources				
Create JDBC GridLink data sources Create JDBC multi data sources				
Delete JDBC multi data sources				
Delete JDBC multi data sources				
]			
ystem Status 🖂				
ealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
OK (2)				

5. To create a new data source, click **New** and select **Generic Data Source** from the dropdown.

The Create a New JDBC Data Source screen displays.



Change Center	A Home Log Out Preferences Record Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Hone + Summary of JDBC Data Sources + FCU85113 + Summary of Deployments + FCU85113Dev + Summa	ry of Deployments >Summary of IDBC Data Sources >FCUBS113 >Summary of 3DBC Data Sources
Pending changes exist. They must be activated to take effect.	Create a New JDBC Data Source	
Undo All Changes	JDBC Data Source Properties	
Domain Structure fcubs113_domain	The following properties will be used to identify your new 2080 data source. * Indicates required fields	
BF Environment Depolyments Depolyments Briverssang - Data Sources - Persign 2016 Providers - Work Contexts - With Cont	What would you like to name your new JOBC data source? C *Name: FCUBSDS What JNDI name would you like to assign to your new JOBC Data Source? C 700 Name: j dbc/fojdevDS	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	What database type would you like to select? Database Type: Oracle	
System Status	Back Next Finan Cancel	
Faled (0) Critical (0) Overloaded (0) Warning (0) Ok (2)		

Figure 7-18 Create a New JDBC Data Source

For more information on fields, refer to the field description table.

Table 7-3 Create a New JDBC Data Source

Field	Description	
JDBC Datasource Name Name of the Datasource.		
JNDI Name JNDI for lookup.		
Database Type Oracle		

6. Click Next.

The Create a New JDBC Data Source - JDBC Data Source Properties screen displays.



Change Center	Home Log Out Preferences 🗠 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domai
Linange Center View changes and restarts	Home >Summary of JDBC Data Sources		relience of reasyster connected to reasyster
No pending changes exist. Clck the Release Configuration button to allow others to edit t doman. Lock & Edit Release Configuration	te Create a New JDBC Data Source Back, Next, Front Cancel JDBC Data Source Properties The following properties will be used to identify your new JDB	C data source.	
Domain Structure Factor 11 3 domain Poepoyments Posnycos Posnycos Postores Poregn 2010 Providers Potent 201	Database Type: Oracle What database driver would you like to use to create database Database Driver: VOracle's Driver (Thin) for Inst Back, Next Frintin Cancel	connections? Note: "Indicates that the dri ance connections, Versions.9.0.1 ar	
System Status			
Health of Running Servers			
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)			

Figure 7-19 Create a New JDBC Data Source - JDBC Data Source Properties

7. Select the database driver from the drop-down list and click Next.

The Create a New JDBC Data Source - Transaction Options screen displays.

Figure 7-20	Create a New JDBC Data Source - Transaction Options
-------------	---

ORACLE WebLogic Server®	Administration Console		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Inext Frinstn Cancel Transaction Options You have selected non-XA JDBC driver to create database	se connection in your new data source.	
Domain Structure	Does this data source support global transactions? If yes,	please choose the transaction protocol for this	data source.
fcubs113_domain B-Environment Deployments	Supports Global Transactions		
Operations Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction optimization. ① Hessigning Recommended in place of Emulate Two-Phase Commt.			
Persistent Stores Foreign JNDI Providers Work Contexts	Cogging Last Resource		
XML Registries	Select this option if you want to enable non-XA JDBC con- heuristic conditions.	nections from the data source to emulate particip	pation in global transactions using JTA. Select this option only if your application can tolerate
	Emulate Two-Phase Commit		
How do I	Select this option if you want to enable non-XA JDBC con- other resources can participate in the global transaction.	nections from the data source to participate in g	obal transactions using the one-phase commit transaction processing. With this option, no
Create JDBC generic data sources Create LLR-enabled JDBC data sources	One-Phase Commit		
System Status	Back Next Finish Cancel		
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			

8. Select Logging Last Resource then, uncheck Support Global Transactions and Click Next.

The Create a New JDBC Data Source - Connection Properties screen displays.

have for the	Home Log Out Preferences 🔤 Record	Help	Welcome, weblogic Connected to: fcubs113 doma	
hange Center	Home >Summary of JDBC Data Sources		webbine, webbine corrected to. readying_donie	
iew changes and restarts				
Io pending changes exist. Click the Release configuration button to allow others to edit th omain.	e Back Next Finish Cancel			
	Connection Properties			
Release Configuration				
	Define Connection Properties.			
omain Structure	What is the name of the database you would	ike to connect to?		
fcubs113_domain Cenvironment Deployments	Database Name:	KERDEV2		
∃-Services I Messaging	ervices What is the name or 10 address of the database server?			
Data Sources Persistent Stores Foreign JNDI Providers	Host Name:	10.10.10		
"Horegn JICU Provides "Work Contexts What is the port on the database server used to connect to the database? "Will According to the database server used to connect to the database?				
XML Entity Caches jCOM	Port:	1010		
Mail Sessions File T3	What database account user name do you wa	What database account user name do you want to use to create database connections?		
ow do I	Database User Name:	FCPB1121		
Create JDBC generic data sources Create LLR-enabled JDBC data sources	What is the database account password to us	e to create database connections?		
ystem Status	Password:	•••••		
lealth of Running Servers	Confirm Password:			
Failed (0)		L		
Critical (0)	Back Next Finish Cancel			
Overloaded (0)				
Warning (0)				

Figure 7-21 Create a New JDBC Data Source - Connection Properties

- 9. The Create a New JDBC Data Source Connection Properties defines the connection properties.
- **10.** Specify the Database Name, Host Name, Port of the database server to connect, Database User Name, Password, and Confirm the password.
- 11. Click Next.

The Create a New JDBC Data Source - Test Database Connection screen displays.

hange Center	🔒 Home Log Out Preferences 🔤 Reco	ord Help	Welcome, weblogic Connected to: DefaultDomai
New changes and restarts	Home >Summary of JDBC Data Sources		
onfiguration editing is enabled. Future	Create a New JDBC Data Source		
anges will automatically be activated as you odify, add or delete items in this domain.	Test Configuration Back Next Fi	inish Cancel	
omain Structure	Test Database Connection		
aultDomain Environment	Test the database availability and the con	nnection properties you provided.	
Deployments Services	What is the full package name of JDBC driv	ver dass used to create database connections in the connection pool?	
⊕-Messaging ⊖-JDBC	(Note that this driver class must be in the c	classpath of any server to which it is deployed.)	
Data Sources Multi Data Sources Data Source Factories	Driver Class Name:	oracle.jdbc.OracleDriver	
Persistent Stores Foreign JNDI Providers	What is the URL of the database to connect to? The format of the URL varies by JDBC driver.		
Work Contexts	URL:	jdbc:oracle.thin:@10.10.10	
	What database account user name do you	want to use to create database connections?	
Create JDBC data sources	Database User Name:	FCPB1121	
Create LLR-enabled JDBC data sources	What is the database account password to	use to create database connections?	
stem Status	(Note: for secure password management, e	enter the password in the Password field instead of the Properties field belo	ow)
alth of Running Servers	Password:	*****	
Failed (0) Critical (0)			
Overloaded (0) Warning (0)	Confirm Password:	•••••	
OK (1)	What are the properties to pass to the JDB	BC driver when creating database connections?	
	Properties:		
	user=FCPB1121		
	What table name or SQL statement would	vou like to use to test database connections?	


nected to: fcubs113 doma

- 12. Specify the Driver Class Name (Eg: oracle.jdbc.OracleDriver).
- Specify the URL as jdbc:oracle:oci:@10.10.10.10:1010:<INSTANCE_NAME> from jdbc:oracle:thin:@10.10.10.10:1001<INSTANCE_NAME>.

If the target database is Autonomous Database then, the URL Format to connect to Autonomous Database must be as follows: Jdbc:oracle:thin:@<Database Service Connect string >?TNS ADMIN=<TNS ADMIN PATH>

- 14. Specify the Database Username (Eg: testdb) and password.
- **15.** Confirm the password.
- 16. Click on Test Configuration button.

If the connection is established successfully, a message displays on the **Create a New** JDBC Data Source - Messages screen confirming that Connection test succeeded.

ORACLE WebLogic Server®	Administration Console	
Change Center	😰 Home Log Out Preferences 🖾 Record Help	Welcome, wel
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages Connection test aucceeded. Create a New JDBC Data Source	
Release Configuration	Test Configuration Back Next Finish Cancel	
Domain Structure	Test Database Connection	
foubs113_domain	Test the database availability and the connection properties you provided.	
Deployments	What is the full package name of JDBC driver class used to create database connections in the connection pool?	

Figure 7-23	Create a New JDBC Data Source - Message
-------------	---

- (Note that this driver class must be in the classpath of any server to which it is deployed.) Driver Class Name: oracle.jdbc.OracleDriver What is the URL of the database to connect to? The format of the URL varies by JDBC driver MI Entity Cacher URL: jdbc:oraclethin:@10.10.10. COM al Sessions File T3 What database account user name do you want to use to create database connections? How do I... Ξ Database User Name: FCPB1121 Create JDBC generic data sources
 Create LLR-enabled JDBC data sources What is the database account password to use to create database connections? (Note: for secure password management, enter the password in the Pas and field instead of the Properties field Ξ System Status Health of Running Servers Password: Failed (0) Critical (0) Confirm Password: ••••• Overloaded (0) What are the properties to pass to the JDBC driver when creating database con Warning (0) OK (2) Properties: user=FCPB1121
- 17. Click Next.

The Create a New JDBC Data Source - Select Targets screen displays.



Pending changes exist. They must be activated to take effect.	Create a New JDBC Data Source
Activate Changes Undo All Changes	Back Not Frish. Cancel
	-
Domain Structure	You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source will be created but not deployed. You will need to deploy the data source at a later time.
5OADOM3	Para and
Environment	Servers
Deployments	
Services	✓ AdminServer
Messaging Data Sources	
Persistent Stores	✓ soa_server1
Foreign JNDI Providers	
Work Contexts	Back Next Finish Cancel
COM	
Mail Sessions	
How do I 🗉	
Create JDBC generic data sources	
Create LLR-enabled JDBC data sources	
System Status 🖂	
Health of Running Servers as of 8:12 PM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warring (0)	

Figure 7-24 Create a New JDBC Data Source - Select Targets

18. Select the check boxes against the required servers(for data source jdbc/fcjdevDS, it is mandatory to select the admin server check box as well as the application-deployed server) and click **Finish**.

The Summary of JDBC Data Sources - New Data Source screen displays.

Change Center	Ho Ho	ome Log Out Preferences 🔤 Record	Help	<u>.</u>	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home	>Summary of JDBC Data Sources			
Pending changes exist. They must be activated to take effect.	Summ	ary of JDBC Data Sources			
Activate Changes	Confi	iguration Monitoring			
Undo All Changes	A JC	BC data source is an object bound to th	e JNDI tree that provides databa	e connectivity through a pool of JDBC connecti	ions. Applications can look up a data source on the JNDI tree and then
omain Structure					
ubs113_domain	Ins	page summarizes the JDBC data source	objects that have been created i	n this domain.	
Environment					
Deployments	Cus	tomize this table			
-Services					
-Messaging	Data	a Sources (Filtered - More Columns	s Exist)		
Data Sources	Ne	w 🗸 Delete			Showing 1 to 3 of 3 Previous Next
Persistent Stores	ive	W.			Showing 1 to 3 or 3 Previous Next
Foreign JNDI Providers			1.2		
Work Contexts		Name 🗠	Туре	JNDI Name	Targets
XML Registries					
XML Entity Caches		FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer 1
JCOM					
Mail Sessions		FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer1
File T3		FLEXTEST.WORLD	Generic	FLEXTEST, WORLD	AdminServer
ow do I			Generic	1 CENTED THIS IS A	
Create JDBC generic data sources	Ne	W V Delete			Showing 1 to 3 of 3 Previous Next
Create JDBC GridLink data sources					
Create JDBC multi data sources					
Delete JDBC data sources	1				
	1				
Delete JDBC multi data sources	1				
unbarra Charlana	-				
/stem status					
salth of Running Servers					
Failed (0)	1				
Critical (0)					
Overloaded (0)					
Warning (0)					
OK (2)	1				

Figure 7-25 Summary of JDBC Data Sources - New Data Source

19. Click the **Activate Changes** button on the left pane.

The message displays on the Summary of JDBC Data Sources - Activate Changes Message screen confirming that All the changes have been activated. No restarts are necessary.

Change Center		🔒 Home Log Out Preferences 🔺	Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma			
Fiew changes and restarts Click the Lock & Edit button to modify, add o delete items in this domain.	r P	Home >Summary of JDBC Data So dessages & All changes have been activate						
Lock & Edit		Summary of JDBC Data Sources						
Release Configuration		Configuration Monitoring						
Domain Structure 2005 113 domain → "Deployments → "Services ⊕ Messaging → <u>Parts Sources</u> → Persistent Stores → Foreign 2010 Providers → Work Contexts → With Registries	*	borrow a database connection fro This page summarizes the JDBC de Customize this table Data Sources (Filtered - More	om a data source. data source objects that have been crea	ted in this domain.	tions. Applications can look up a data source on the 3HDE tree and then			
XML Registries XML Entity Caches 		New 🕶 Delete			Showing 1 to 3 of 3 Previous Next			
	-	🔲 Name 🚕	Туре	JNDI Name	Targets			
łow do I		FCUBS113	Generic	jdbc/fcjdevDS	ManagedServer1			
Create JDBC generic data sources		FCUBS113Branch	Generic	jdbc/fcjdevDSBranch	ManagedServer1			
Create JDBC GridLink data sources		FLEXTEST.WORLD	Generic	PLEXTEST.WORLD	AdminServer			
Delete JDBC data sources Delete JDBC multi data sources		New 🛩 Delete			Showing 1 to 3 of 3 Previous Next			
vstem Status								
ealth of Running Servers								
Failed (0) Critical (0) Overloaded (0)								
Warning (0) OK (2)								

Figure 7-26 Summary of JDBC Data Sources - Activate Changes Message

20. Click the Datasource, and then click on the **Connection Pool** tab.

The Settings for fcjdevDS - Connection Pool screen displays.

Figure 7-27 Settings for fcjdevDS - Connection Pool

hange Center 🔐 H	ome Log Out	Preference	es 🔤 Record	Help			Q		Welcome, weblogic Connected to: Default
New changes and restarts	e >Summary of	Services: J	DBC >Summary	of JDBC	Data Soun	ces >fcjdevD	S >Sum	ary of Servis	ervices: JDBC >Summary of JDBC Data Sources >fcjdevDS >Summary of JDBC Data Sources >fcjdevD
-	as for fcidev	DS							
hanges will automatically be activated as you nodify, add or delete items in this domain.	iguration		Monitoring	Control	Security	Notes			
	iguration	argets	Monitoring	Control	Security	Notes			
omain Structure Gen	eral Conne	tion Poo	I Transactio	n Diag	nostics	Identity Op	otions		
efaultDomain Sav	e								
"Persistent Stores Use "Foreign JNDI Providers		d when th	e connection p	ool is reg	istered, us	sually when	starting		spplications reserve, use, and then return to the pool. The connection pool and the connections ogic Server or when deploying the data source to a new target.
Coherence Clusters Work Contexts ML Registries	JRL:		jdbc:	oracle:c	ci:@10.1	10.10.10:1	010:CF	U11G2	The URL of the database to connect to. The format of the URL varies by JDBC driver. More Info
XML Entity Caches JCOM Mail Sessions	Driver Class I	lame:	oracl	e.jdbc.C	DracleDri	ver			The full package name of JOBC driver dass used to create the physical database connections in the connection pool. (Note that this driver dass must be in the dasspath of any server to which it is deployed.) More Info
	properties:								The list of properties passed to the JDBC driver that are used to create
	er=FC1202	tune							physical database connections. For example: server-dbserver1. List eac property=value pair on a separate line. More Info
ystem Status 🗉 🎼	Password:		••••	•••••	•••••	•••			The password attribute passed to the JDBC driver when creating physica database connections. More Info
Failed (0)	firm Passwor	d:	••••	•••••	•••••	•••			
Overloaded (0)	al Capacity:		1						The number of physical connections to create when creating the connect pool. More Info
Warning (0) OK (1) Max	imum Capac	ity:	15						The maximum number of physical connections that this connection pool c contain. More Info
Сар	acity Increm	ent:	1						The number of connections created when new connections are added to connection pool. More Info
á∰ s	Statement Ca	che Typ	E: LRU	•					The algorithm used for maintaining the prepared statements stored in the statement cache. More Info
Stat	ement Cach	Size:	200						The number of prepared and callable statements stored in the cache. (The may increase server performance.) More Info
	Advanced —								
Sav	e								



- 21. On the Settings for fcjdevDS Connection Pool screen, select the statement cache type as LRU from the drop-down list.
- 22. Specify the statement cache size as 200.
- 23. Click Save button.
- 24. Refer to the *Resources to be created* guide for the list of Non-XA data sources to be created.

Note:

- You need to create another data source for Oracle FCUBS with the JNDI name '_ASYNC' for the 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 _ASYNC.
- You need to create another data source for Oracle ELCM with the 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 the ELCM data source.

The following is the list of data sources that can be created depending on the requirement. For more information, refer to the *Resources to be created* guide.

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

Table 7-4 List of Data Sources

The Oracle Banking Corporate Lending data source is created.

7.1.2 Create JMS Server

This topic explains the systematic instructions to create the JMS server in the Weblogic application server.

To create the JMS server, follow the steps given below:



 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console.

The Oracle Weblogic Server - Welcome screen displays.



Figure 7-28 Oracle Weblogic Server - Welcome

- 2. Specify the WebLogic administrator Username, Password and click Log In.
- 3. Navigate to Oracle Weblogic home page.

The Oracle Weblogic Server - Home Page screen displays.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
	Helpful Tools	General Information	
	 Configure applications 	 Common Administration Task Descriptions 	
	Configure GridLink for RAC Data Source	 Read the documentation 	
omain Structure	 Recent Task Status 	 Ask a question on My Orade Support 	
cubs113_domain TEnvironment	 Set your console preferences 	 Oracle Guardian Overview 	
- Deployments			
the Services	- Domain Configurations		
Security Realms	Domain	Services	Interoperability
-Interoperability	Domain	Messaging	WTC Servers
1 Diagnostics		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
	Clusters	 Path Services 	Log Files
	Virtual Hosts	 Bridges 	Diagnostic Modules
	Migratable Targets	Data Sources	Diagnostic Inages
		Persistent Stores	Request Performance
łow do I	Coherence Servers Coherence Clusters	XML Registries	Archives
Search the configuration	Machines	XML Registres XML Entity Caches	Context
Use the Change Center		Foreign JNDI Providers	
Record WLST Scripts	Work Managers	Poreign JND1 Providers Work Contexts	SNMP
Change Console preferences	Startup And Shutdown Classes		
Monitor servers		• jCOM	Charts and Graphs
Monitor servers	Your Deployed Resources	Mail Sessions	 Monitoring Dashboard P
ystem Status	Deployments	• FileT3	
ystem status		• JTA	
lealth of Running Servers	Your Application's Security Settings		
Failed (0)	Security Realms		
Critical (0)			
Overloaded (0)			
Warning (0) OK (2)			

4. On the left pane, under **Domain Structure**, expand **Services**, **Messaging** and **JMS Server** under it. Click the **Lock & Edit** button.

The Summary of JMS Servers screen displays.



Change Center	Home Log Out Preferences	Record Help		Welcome,	weblogic Connected to: fcubs113_do
View changes and restarts	Home >Summary of JDBC Data Sou	rces >FLEXTEST.WORLD >Summary of JMS Servers			
to pending changes exist. Click the Release Configuration button to allow others to edit the Iomain.	Summary of JMS Servers				
Lock & Edit	JMS servers act as management	containers for the queues and topics in JMS modules th	at are targeted to them.		
Release Configuration	This page summarizes the JMS se	ervers that have been created in the current WebLogic	Server domain.		
omain Structure	Customize this table				
ubs113_domain	JMS Servers (Filtered - More	Columns Exist)			
tr-Environment Deployments ∃Services	New Delete				Showing 0 to 0 of 0 Previous Nex
-Messaging -JMS Servers	🔲 Name 🏟	Persistent Store	Target	Current Server	Health
Store-and-Forward Agents		The	e are no items to display		
	New Delete	The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
	7	' The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
Parts Modules Parts Pervices Parts Pervices Parts Pervices Parts parts Parts parts Parts parts Parts parts Parts parts Parts	7	The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
HIM Modules Hard Services Him Bridges Data Sources Parsitent Stores Persitent Stores Persitent Stores Work Contexts tow do L. Configure JMS servers	7	The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
MS Modules Part Services Bridges Part Services Prevides Providers Providers Viol Contexts Viol Contexts Configure JMS servers Configure JMS system modules		The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
All Modules Park Services Bravidges Data Sources Parsitent Stores Parsign JUD Pointers "Volve Cottexts tow do L. Configure JMS servers Configure JMS system modules ystem Status		The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
All Modules Park Services Bravidges Data Sources Parsitent Stores Parsign JUD Pointers "Volve Cottexts tow do L. Configure JMS servers Configure JMS system modules ystem Status		The The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
		The	e are no items to display		Showing 0 to 0 of 0 Previous Nex
APA Modules Pant Services Bendges Partices Partices Partices Partices Partices Partices Partices Partice Partice		The	e are no items to display		Showing 0 to 0 of 0 Previous Nex

Figure 7-30 Summary of JMS Servers

5. Click New.

The Create a New JMS Server - JMS Server Properties screen displays.

Figure 7-31 Create a New JMS Server - JMS Server Properties

ORACLE WebLogic Server®	Administration Console	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers	
No perioding changes exist. Click the Release Configuration builton to allow others to exist the domain. Lock & Edit Release Configuration Domain Structure Ficabilit3 domain B) - Environments	Create a New JHS Server	
Horizes Horizes	Image: FCUBS_JMSServer Specify persistent store for the new JMS Server. Persistent Store: Image: Itext Enable	
How do I		
Configure JMS system modules Configure custom persistent stores		
System Status		
Health of Running Servers		
Failed (0) Critcal (0) Overloaded (0) Warning (0) OK (2)		

For more information, refer to the fields description table.



Table 7-5 Create a New JMS Server

Field	Description
JMS Server Name	Specify the name of JMS Server.

6. Click Create a new Store button.

The Create a New JMS Server - Select store type screen displays.

Figure 7-32 Create a New JMS Server - Select store type

ORACLE WebLogic Server®		
hange Center	Home Log Out Preferences 🗠 Record Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers	
No pending changes exist. Click the Release Configuration button to allow others to edit the Jomain.	Create a New JMS Server	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	Select a store type.	
Release computation	Please select the type of store you wish to create from the list.	
Domain Structure	Type: File Store	
cubs113_domain	Back Next Finish Cancel	
Deployments Services		
Messaging MS Servers		
Store-and-Forward Agents		
JMS Modules		
⊞-Bridges		
Data Sources Persistent Stores		
Foreign JNDI Providers		
Work Contexts		
low do I		
Configure JMS system modules		
Configure custom persistent stores		
vertem Statue 🖂		
vyscem status		
lealth of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)		
OK (2)		

- 7. Select the **Type** as **File Store** from the drop-down.
- 8. Click Next.

The Create a New JMS Server - File Store Properties screen displays.

Figure 7-33 Create a New JMS Server - File Store Properties

ORACLE WebLogic Server Ad	Iministration Console 12c		
Change Center	Home Log Out Preference	Record Help	Welcon
View changes and restarts	Home >Summary of Security Res	ns >Summary of Persistent Stores >FCU8SFIleStore >Summary of Persistent Stores	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New File Store Back Next Finish (ancel	
Lock & Edit Release Configuration	File Store Properties	used to identify your new file store.	
Domain Structure	* Indicates required fields		
PM22ITR2 PM-Domain Partitions PM-Environment Deployments Services P-Data Sources -Postation Stores -Postation Stores -P	What would you like to name : *Name: What scope do you want to or Scope: The pathname to the directory Directory:	FileStore-0	s sure to create it before completing this tab.
How do I Create File Stores	Back Next Finish	ancel	
Monitor persistent stores			
System Status Image: Control of the state o			
08(2)			



- 9. To identify the new File Store, specify the following properties:
 - a. Specify the file store name as FCUBS_FileStore.
 - **b.** Select a server. For this file store, you may select **ManagedServer1** (created by the user).
 - c. Specify the File store Directory path as C:/FCUBS_FileStore.
 - d. Click OK.
- 10. Click Next and the message File store created successfully displays.

The Create a New JMS Server - Messages screen displays.

Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domai
	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers	
View changes and restarts	Messanes	
Pending changes exist. They must be activated to take effect.	✓ File store created successfully.	
Activate Changes	Create a New JMS Server	
Undo All Changes	Back Next Finish Cancel	
Domain Structure	JMS Server Properties	
cubs113_domain	The following properties will be used to identify your new JMS Server.	
Environment Deployments	* Indicates required fields	
E-Services		
E-Messaging	What would you like to name your new JMS Server?	
JMS Modules	ECUBS_JMSServer	
Path Services		
⊞-Bridges Data Sources	Specify persistent store for the new JMS Server.	
Persistent Stores	Persistent Store: FCUBS_FileStore Create a New Store	
Foreign JNDI Providers	Mittadada da Matada	
Work Contexts	Back Next Finish Cancel	
How do I		
Configure JMS system modules		
Configure custom persistent stores		
System Status		
Health of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)		
OK (2)		

Figure 7-34 Create a New JMS Server - Messages

11. Click Next.

The Create a New JMS Server - Select Targets screen displays.



Change Center	Home Log Out Preferences 🔤 Reco	d Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources >FLE	EXTEST.WORLD >Summary of JMS Servers	
Pending changes exist. They must be acti- to take effect.	Create a New JMS Server		
Activate Changes	Back Next Finish Cancel		
Undo All Changes	Select targets		
Domain Structure		rget on which you would like to deploy this JMS Server.	
fcubs113_domain	Target:	ManagedServer1	
E Environment Deployments			
E Services	Back Next Finish Cancel		
E-Messaging			
Store-and-Forward Agents			
JMS Modules			
Path Services			
El·Bridges			
Persistent Stores			
Foreign JNDI Providers	-		
Work Contexts			
How do I	-		
 Configure JMS system modules 			
Configure custom persistent stores			
System Status	8		
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			

Figure 7-35 Create a New JMS Server - Select Targets

- **12.** Select the **Target** as **ManagedServer1**.
- 13. Click on Finish and the message ${\tt JMS}\,$ Server created successfully displays.

The Summary of JMS Servers - Messages screen displays.

			· · · · · · · · · · · · · · · · · · ·			0
hange Center		Home Log Out Preferences 🔤		Q	Welcome, weblogic	Connected to: fcubs113_dom
iew changes and restarts			es > FLEXTEST.WORLD >Summary of JMS	Servers		
ending changes exist. They must be activated take effect.	Messi	ages JMS Server created successfully				
Activate Changes	Summ	mary of JMS Servers				
Undo Al Changes main Structure bis113 domain Environment Deployments Services Phressesing	Thi		ontainers for the queues and topics in JMS vers that have been created in the current			
···· <u>JMS Servers</u> ····Store-and-Forward Agents	N	lew Delete			Show	wing 1 to 1 of 1 Previous Next
:IMS Modules Path Services ⊞Bridges		🗌 Name 😞	Persistent Store	Target	Current Server	Health
Data Sources		FCUBS_JMSServer	FCUBS_FileStore	ManagedServer1	ManagedServer1	
Foreign JNDI Providers	N	Delete			Shou	wing 1 to 1 of 1 Previous Next
w do I	n —					
Configure JMS servers						
Configure JMS system modules						
stem Status	-) -)					
alth of Running Servers						
Failed (0)	1					
Critical (0)	1					
Overloaded (0)						
	1					
Warning (0)	1					

14. Click the Activate Changes button under Change Center.

The message All the changes have been activated. No restarts are necessary displays.

The **JMS Server** is created.



7.1.3 Create JMS Modules

This topic explains the systematic instructions to create the JMS Modules in the Weblogic application server.

To create the JMS Modules, follow the steps given below:

 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console.

The Oracle Weblogic Server - Welcome screen displays.

Figure 7-37 Oracle Weblogic Server - Welcome

ORACLE WebLogic Server Administration Console 12c		
	Welcom	
	Log in to work with the WebLogic Se Username: Password:	ver domain
		Login

- 2. Specify the WebLogic administrator Username, Password and click Log In.
- 3. Navigate to Oracle Weblogic home page.

The Oracle Weblogic Server - Home Page screen displays.



Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domai
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit Relesse Configuration	Information and Resources Helpful Tools Configure explositons Configure explositons Configure explositons Configure GridLink for RAC Data Source Recent Task Status Set your console preferences Domain Domain Domain Environment Servers Couters	General Information Common Administration Task Descriptions Read the documentation Administration Task Descriptions Advantation Advantation Advantation Advantation Services Services Jitts Services Jitts Modules Path Services	Interoperability • WTC Servers • Joit Connection Pools Diagnostics • Log Files
How do I	Virtual Hosts Migratable Targets Coherence Servers	Bridges Data Sources Persistent Stores	Diagnostic Modules Diagnostic Images Request Performance
Search the configuration Use the Change Center Record WLST Scripts Change Console preferences Monitor servers	Cohrence Clusters Machines Machines Work Managers Startup And Shutdown Classes Your Deployed Resources	XML Registries XML Entry Caches Foreign JND Providers Work Contexts JCOM JGM Hall Sessions	Archives Context State Charts and Graphs Monitoring Dashbaard @
System Status		FileT3JTA	
Plate of of kultring servers Paled (0) Critical (0) Overloaded (0) Warning (0) OK (2)	Your Application's Security Settings • Security Realms		

Figure 7-38 Oracle Weblogic Server - Home Page

4. On the left pane, under **Domain Structure**, expand **Services**, **Messaging** and **JMS Modules** under it.

The **JMS Modules** screen displays.

hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: fcubs113_doma
New changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.W	VORLD > Summary of JMS Servers > Summary of	JDBC Data Sources > FLEXTEST.WORL	>Summary of JMS Servers >JMS Modules
Click the Lock & Edit button to modify, add or delete items in this domain.	JM5 Modules			
Lock & Edit Release Configuration	JMS system resources are configured and stored a distributed queues, distributed topics, foreign serv resources.	is modules similar to standard J2EE modules. ers, and JMS store-and-forward (SAF) param	Such resources include queues, topics eters. You can administratively config	connection factories, templates, destination keys, quota, ure and manage JMS system modules as global system
omain Structure	This page summarizes the JMS system modules that	it have been created for this domain.		
ubs113_domain	Customize this table			
Services	JMS Modules			
-Messaging	Click the Lock & Edit button in the Change Center	to activate all the buttons on this page.		
Store-and-Forward Agents				Showing 0 to 0 of 0 Previous Next
JMS Modules				
Path Services	Name 🗇		Туре	
⊞-Bridges Toata Sources				
Persistent Stores		There are n	o items to display	
Foreign JNDI Providers				Showing 0 to 0 of 0 Previous Next
Work Contexts				
ow do I				
Configure JMS system modules				
Configure resources for JMS system modules				
ystem Status				
ealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				

Figure 7-39 JMS Modules

 To create new JMS Module, click the Lock & Edit button under the Change Center. The JMS Modules - New screen displays.



Vew changes and restarts No ending changes exat. Click the Researce configured to allow others to editive the researce configured to allow others to editive the researce configured and stored at modules smaller to standard JZEE modules. Such resources include queues, topics, connection factories, templates, destin distributed queues,	on keys, quota, obal system
Configure SMs system modules System Status	on keys, quota, obal system
Release Configuration Domain Structure Cook Structure Cook Structure Cook Structure Cook Structure Cook Structure Cook Structure Cook Structure Deployments Structure Cook Structure Cook Structure Structure Cook Structure Cook Cook Structure Cook Structure Cook Cook Structure Cook Structure Cook Structure Cook Structure Cook Struc	on keys, quota, obal system
bornain Structure Customize this table Deployments Showing 0 to 0 Pencies Showing 0 to 0 Past Services Image: Showing 0 to 0 Past Services Showing 0 to 0	
Start 112 Jonnah Customize this table Deproyments Deproyments Deproyments Showing 0 to 0 Image: Spread Provide Provides Showing 0 to 0 Image: Deproyments Type Image: Deproyments Type Image: Deprovide Provides There are no items to display Image: Deprovide Provides Showing 0 to 0 Image: Deprovide Provides Showing 0 to 0 Store start Store start Configure 1MS system modules Showing 0 to 0 Configure 1MS system modules Showing 0 to 0	
Benoment Deployments Deployment Deployment Deployment Deployment Deployment D	
Oregonants Services Showing 0 to 0 Services Name % Type Image: Services Name % Image: Services Handpase There are no Items to display Image: Services Handpase There are no Items to display Image: Services Handpase There are no Items to display Image: Services Handpase There are no Items to display Image: Services Handpase There are no Items to display Image: Services Stream: Stores There are no Items to display Image: Services Configure 3NS system modules Showing 0 to 0 Image: Services System Status Image: Services Services Services	
Image: Servers Servers - Pasts Servers - Pasts Servers	
Sovered Serverd Agents Hame Type There are no Items to display	f 0 Previous Next
Parts Hodules There are no items to display Parts Hodules There are no items to display Parts Hodules There are no items to display Data Sources Showing 0 to 0 Persetent Stores Showing 0 to 0 Configure JMS system modules Showing 0 to 0 Configure MS system modules Showing 0 to 0	
Parts Services There are no Items to display New, Detects Showing 0 to 0	
Bendages Date Sources Date Sources Personnet Stores Personnet P	
Persitem Stores Persitem Stores Persitem modules Configure IMS system modules Configure IMS system modules Configure TaxIs	
• Foreign JND Providers • Work Contexts • Work Contexts • Configure JNS system modules • Configure resources for JMS system modules System Status	0 Previous Next
Work Contexts How do L © Onfigure JMS system modules Configure resources for JMS system modules System Status	
tow do L Image: Configure 3MS system modules Configure resources for JMS system modules System Status	
Configure IMS system modules Configure resources for JMS system modules System Status	
Configure resources for JMS system modules System Status	
System Status	
yysteni status	
Failed (0)	
critical (0)	
Overloaded (0)	
Oversidade (0) Warning (0)	
verng (0) Or (2)	

Figure 7-40 JMS Modules - New

6. On the JMS Modules screen, click New.

The Create JMS System Module screen displays.

Figure 7-41	Create J	MS S	ystem	Module
-------------	----------	------	-------	--------

ORACLE WebLogic Server® A	dministration Console		Q
Change Center	🙆 Home Log Out Preferences 🔤 P	Record Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources	>FLEXTEST.WORLD >Summary of JMS Servers >Summary of JD	BC Data Sources >FLEXTEST./WORLD >Summary of JMS Servers >JMS Modules
No perchip changes visit. Click the Release Configuration buttom to allow others to exit the Annual Configuration Configuration Duction to allow others to exit the Configuration Domain Structure Tobal 13 Jonan 19 Enviros 19 Envi	UNS system resources are configured distributed queues, distributed topics resources. * Indicates required fields What would you like to name your Sys * Name: What would you like to name the desc Descriptor File Name:	s, foreign servers, and JMS store-and-forward (SAF) paramete	
How do I	Location In Domain:		
Configure JMS system modules Configure JMS servers	Back Next Finish Cancel		
System Status			
Health of Running Servers Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)			

For more information on fields, refer to the field description table.



Table 7-6 Create JMS System Module

Field	Description
Name	Enter the System Module Name as FCUBS_SystemModule.
Description File Name	Enter the Description File Name as FCUBS_SystemModule.

7. Click Next.

The Create JMS System Module - Targets screen displays.

Figure 7-42 Create JMS System Module - Targets

	Home Log Out Preferences 🔤 Record Help	9	Welcome, weblogic Connected to: fcubs113 domai
Change Center	-		urces >FLEXTEST.WORLD >Summary of JMS Servers >JMS Modules
View changes and restarts		Jmmary of JMS Servers > Summary of JUBC Data Sol	urces >PLEXTEST.WORLD >Summary of JMS Servers >JMS Modules
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create JMS System Module		
domain.	Back Next Finish Cancel		
Release Configuration	The following properties will be used to target your	new JMS system module.	
	Use this page to select the server or cluster on which you wo	auld like to deploy this 1MS system module. You ca	en reconfigure tergete later if way wich
Domain Structure	out any page to select the select of classes of million you we	and the to deploy and and ayatem module. Todied	in reconnigore targeta later in you want
cubs113_domain	Targets :		
-Environment Deployments			
Services	Servers		
E-Messaging			
	AdminServer		
JMS Modules			
Path Services	ManagedServer1		
Data Sources			
Persistent Stores Foreign JNDI Providers	Back Next Finish Cancel		
How do I			
Configure JMS system modules			
Configure JMS system nodules			
iystem Status 🗉	1		
lealth of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			

8. Select the check box against the server created and click Next.

The Create JMS System Module - Add Resources screen displays.

Figure 7-43 Create JMS System Module - Add Resources

hange Center	🙆 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domai
iew changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Summary of JDBC Data	a Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS Modules
o pending changes exist. Click the Release onfiguration button to allow others to edit the omain.	Create JHS System Module Back, West, Finish, Cancel	
Lock & Edit	Add resources to this JHS system module	
Release Configuration	Use this page to indicate whether you want to immediately add resources to this JMS system module after	it is created. JMS resources include queues, topics, connection factories, etc.
ubs113_domain	Would you like to add resources to this JMS system module?	
Hervices Hessaging JMS Servers Store-and-Forward Agents	Back Next Finah Cancel	
→ JMS Modules → Path Services B→Bridges → Data Sources		
"Persistent Stores "Foreign JNDI Providers Work Contexts		
w do I		
Configure JMS system modules Configure JMS servers		
/stem Status 🛛		
alth of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)	1	



9. Click the **Finish** button.

The message displays on the JMS Modules - Message screen confirming that ${\tt JMS}$ was created successfully

	Administration Console	
hange Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_dom
ew changes and restarts	Home »Summary of JDBC Data Sources »FLEXTEST.WORLD »Summary of JMS Servers »Summary of JDBC	C Data Sources »FLEXTEST.WORLD »Summary of JMS Servers »JMS Modules
nding changes exist. They must be activated take effect.	Messages	
Activate Changes	JM5 Modules	
Undo All Changes		
main Structure	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such distributed queues, distributed topics, foreign servers, and 3MS store-and-forward (SAF) parameters resources.	resources include queues, topics, connection factories, templates, destination keys, quota, . You can administratively configure and manage JMS system modules as global system
Environment	This page summarizes the JMS system modules that have been created for this domain.	
"Deployments "Services		
E-Messaging	Customize this table	
JMS Servers	JMS Modules	
Store-and-Forward Agents		
-Path Services	New Delete	Showing 1 to 1 of 1 Previous Next
⊡-Bridges	🔲 Name 🔅	Туре
Data Sources Persistent Stores		
Foreign JNDI Providers	FCUBS_SystemModule	System
Work Contexts	New Delete	Showing 1 to 1 of 1 Previous Next
w do I 🗉		
Configure JMS system modules		
Configure resources for JMS system modules		
stem Status		
alth of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)		
OK (2)		

Figure 7-44 JMS Modules - Message

10. Click the Activate Changes button under Change Center. The message All the changes have been activated. No restarts are necessary displays.

The JMS Modules - Activate Changes screen displays.

Figure 7-45 JMS Modules - Activate Changes Message

ORACLE WebLogic Server®	Administration Console	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts Click the Lock & Edit button to modify, add or delete items in this domain.	Home sSummary of JOBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Summary of JOBC Data Messages	Sources > FLEXTEST.WORLD > Summary of JMS Servers > JMS Modules
Lock & Edt Release Configuration	JMS Hodules JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resour distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You resources.	rces include queues, topics, connection factories, templates, destination keys, quota, can administratively configure and manage 3MS system modules as global system
BrEnvironment →Deployments ⇒Services Hessaging →MS Servers	This page summarizes the IMS system modules that have been created for this domain.	
Store-and-Forward Agents Modules Path Services B-Bridges	Click the Lock & Editbutton in the Change Center to activate all the buttons on this page. Trevel Desite	Showing its isfi Previous Next
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts		Туре
w do I	FCUBS_SystemModule Now Delete	System Showing 1 to 1 of 1 Previous Next
Configure resources for JMS system modules		
ealth of Running Servers		
Failed (0) Critical (0) Overloaded (0)		
Warning (0) OK (2)		

The **JMS Module** is created.



7.1.4 Create Subdeployment

This topic explains the systematic instructions to create the subdeployment in the Weblogic application server.

To create the subdeployments, follow the steps given below:

 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console.

The Oracle Weblogic Server - Welcome screen displays.

Figure 7-46 Oracle Weblogic Server - Welcome

ORACLE WebLogic Server Administration Console 12c		
120	Wekome Log in to work with the WebLogic Server Username: Password:	domain Login

- 2. Specify the WebLogic administrator Username, Password and click Log In.
- 3. Navigate to Oracle Weblogic home page.

The Oracle Weblogic Server - Home Page screen displays.



hange Center	🟦 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domai
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
	Helpful Tools	General Information	
	Configure applications	 Common Administration Task Descriptions 	
	Configure GridLink for RAC Data Source	 Read the documentation 	
main Structure	 Recent Task Status 	 Ask a question on My Oracle Support 	
bs113_domain "Environment	 Set your console preferences 	Oracle Guardian Overview	
"Deployments "Services	- Domain Configurations		
Security Realms	Domain	Services	Interoperability
Interoperability	Domain	Messaging	WTC Servers
Diagnostics		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
	Clusters	 Path Services 	Log Files
	Virtual Hosts	 Bridges 	Diagnostic Modules
	Migratable Targets	Data Sources	Diagnostic Images
w do I	Coherence Servers	 Persistent Stores 	Request Performance
	Coherence Clusters	 XML Registries 	Archives
Search the configuration	Machines	 XML Entity Caches 	Context
Use the Change Center	Work Managers	 Foreign JNDI Providers 	SNMP
Record WLST Scripts	 Startup And Shutdown Classes 	 Work Contexts 	
Change Console preferences		• 3COM	Charts and Graphs
Monitor servers	Your Deployed Resources	 Mail Sessions 	 Monitoring Dashboard Ø
	Deployments	FileT3	
/stem status		• JTA	
ealth of Running Servers	Your Application's Security Settings		
Failed (0)	Security Realms		
Critical (0)			
Overloaded (0)			
Warning (0)			

Figure 7-47 Oracle Weblogic Server - Home Page

- 4. On the left pane, under **Domain Structure**, **expand Services**, **Messaging** and **JMS Modules** under it.
- 5. Click the Lock & Edit button under the Change Center.

The **JMS Modules** screen displays.

Figure 7-48 JMS Modules

Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogi	c Connected to: fcubs113_doma
View changes and restarts	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
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	JM5 Modules			
Lock & Edit Release Configuration	JMS system resources are configured and stored as module distributed queues, distributed topics, foreign servers, and resources.	I JMS store-and-forward (SAF) parameters. You	rces include queues, topics, connection factories, templa can administratively configure and manage JMS system	stes, destination keys, quota, modules as global system
Domain Structure	This page summarizes the JMS system modules that have b	een created for this domain.		
cubs113 domain	Customize this table			
Environment	JMS Modules			
Deployments Services Messaging	New Delete		Sho	wing 1 to 1 of 1 Previous Next
	🔲 Name 🏟		Туре	
Path Services	FCUBS_SystemModule		System	
-Data Sources Persistent Stores Foreign JNDI Providers	New Delete		She	wing 1 to 1 of 1 Previous Next
Work Contexts				
ow do I 😑				
Configure JMS system modules				
Configure resources for JMS system modules				
vstem Status				
ealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
OK (2)				

6. Select the JMS module created earlier.

The Settings for FCUBS_SystemModule screen displays.



hange Center	Home Log Out Preference	s 🛃 Record H	elp	Q		Welcome, weblogic	Connected to: fcubs113_dom
iew changes and restarts	Home >Summary of JDBC Data Modules >FCUBS_SystemMod	Sources > FLEXTE	ST.WORLD > 9	Summary of JMS Servers >Sum	mary of JDBC Data Sources >FLEXTE	ST.WORLD >Summary of JMS Servers >J	MS
io pending changes exist. Click the Release ionfiguration button to allow others to edit the	Settings for FCUBS_System						
omiguration button to allow others to edit the omain.	Settings for PCOBS_System	Toquie					
Lock & Edit	Configuration Subdeploym	ents Targets	Security	Notes			
Release Configuration	This page displays general inf	ormation about a	JMS system	module and its resources. It a	also allows you to configure new re	sources and access existing resources.	
omain Structure					-	611 PM 1 11 11	
ubs113_domain	Name:		FCUBS_SY	rstemModule	Ine	name of this JMS system module. More	e Info
- Environment	Descriptor File Name:		jms/FCUBS	5_SystemModule-jms.xml	The	name of the JMS module descriptor file.	More Info
Services							
Store-and-Forward Agents	Customize this table						
JMS Modules Path Services IB-Bridges Data Sources Persistent Stores Foreign JNDL Providers	Customize this table Summary of Resources					Sha	wing 0 to 0 of 0 Previous Next
JMS Modules Path Services Data Sources Persistent Stores Foreign JUD Providers Work Contexts	Summary of Resources	Туре		JNDI Name	Subdeploymen		wing 0 to 0 of 0 Previous Next
JMS Modules Path Services Data Sources Persistent Stores Foreign JUD Providers Work Contexts	Summary of Resources	Туре	:		subdeployment		
HIS Modules Hans Sources Data Sources Persistent Source Person Sources Person Sources Porson Sources Porson Sources Work Contexts ow do L. Configure 3NS system modules	Summary of Resources	Туре	:			nt	Targets
HIS Modules Hans Sources Data Sources Persistent Source Person Sources Person Sources Porson Sources Porson Sources Work Contexts ow do L. Configure 3NS system modules	Summary of Resources	Туре	:			nt	
Ordfyne Jilds Flored Ordfyne Jilds System modules Ordfyne subdeployments in Jilds system modules	Summary of Resources	Туре	•			nt	Targets
Ordfyne JiAS system modules Ordfyne JiAS system modules	Summary of Resources	Туре	:			nt	Targets
Ordfure JNS system modules Configure audiophyments in JNS system modules Configure audiophyments in JNS system modules Configure resources for JNS system modules	Summary of Resources New Color	Тура	:			nt	Targets
And Modules	Summary of Resources New Color	Тура				nt	Targets
And Modules	Summary of Resources New Color	Туре				nt	Targets
And Modules And Modul	Summary of Resources New Color	Тург				nt	Targets
Algo Modules And Services Bridges Data Sources Persistent Stores Persistent Stores Persistent Stores Vork Contexts work O L Configure sub/system modules configure sub/system modules ystem Status Persistent Stores PersistentStores Persistent Stores Persistent Stores	Summary of Resources New Color	Туре				nt	Targets
Alto Modules Pant Services Brindges Data Sources	Summary of Resources New Color	Туре				nt	Targets

Figure 7-49 Settings for FCUBS_SystemModule

7. Click on **Subdeployments** tab.

Settings for FCUBS_SystemModule - Subdeployments tab displays.

Figure 7-50	Settings for FCUBS_	SystemModule -	Subdeployments tab
-------------	---------------------	----------------	--------------------

ORACLE WebLogic Server®	Administration Consol	e					Q
Change Center	Home Log Out Pre	eferences 🞑 R	ecord Help		Q		Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDI Modules >FCUBS_Syst		>FLEXTEST.V	VORLD >Sum	mary of JMS Servers >Summary of .	IDBC Data Sources >FLEXTEST.WORLD >S	iummary of JMS Servers >JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Settings for FCUB5_S	ystemModule					
Lock & Edit	Configuration Subd	eployments	Targets	Security	lotes		
Release Configuration					odule. A subdeployment is a mech rs, server instances, or cluster).	nanism by which JMS module resources (s	uch as queues, topics, and connection factories) are
Domain Structure							
fcubs113_domain	Customize this tab	ble					
Services B-Messaging J-JMS Servers	New						Showing 0 to 0 of 0 Previous Next
Store-and-Forward Agents	🔲 Name 🗠				Resources		Targets
Path Services					There are no	items to display	
B-Bridges Data Sources Persistent Stores Foreign JND2 Providers Work Contexts	New						Showing 0 to 0 of 0 Previous Next
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)							
ОК (2)							

8. On the **Subdeployments** tab, click **New**.

The Create a New Subdeployment screen displays.

ORACLE WebLogic Server			=
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Su Modules >FCUBS SystemModule	immary of JMS Servers >Summary of JDBC Data Sources >F	FLEXTEST.WORLD >Summary of JMS Servers >JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment		
	Back Next Finish Cancel		
Release Configuration	Subdeployment Properties		
	The following properties will be used to identify your new sub	deployment.	
Domain Structure	* Indicates required fields		
Environment Deployments Services	* Subdeployment Name:	FCUBS	
Hessaging Hessaging Hose work digents Hose work digents Hose work digents Hose works Horizes Deats Sources Persign JND Providers Work Contexts *********************************	Book Next Frish Cance		
How do I	1		
Configure subdeployments in JMS system modules			
System Status	Î.		
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			

Figure 7-51 Create a New Subdeployment

9. On Create a New Subdeployment screen, specify the Subdeployment Name as FCUBS and click Next.

The Create a New Subdeployment - Targets screen displays.

Figure 7-52	Create a New	Subdeployment -	- Targets
-------------	--------------	-----------------	-----------

ORACLE WebLogic Server®	Administration Console		Q
Change Center	🕜 Home Log Out Preferences 🖾 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >! Modules >FCUBS_SystemModule	Summary of JMS Servers >Summary of JDBC D	ata Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	Targets		
Domain Structure	Please select targets for the Subdeployment		
fcubs113 domain	Servers		
Environment Deployments			
🕀 Services	ManagedServer1		
E-Messaging 	JMS Servers		
Store-and-Forward Agents	FCUBS_JMSServer		
Path Services	E rcos_Jusserver		
⊡-Bridges Data Sources	Back Next Finish Cancel		
Persistent Stores Foreign JNDI Providers			
-Work Contexts			
How do I			
Configure subdeployments in JMS system			
modules			
System Status			
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0) OK (2)			
OK (2)			

- **10.** Select the **JMS Server** (as created by the user).
- **11.** Click the **Finish** button.

The FCUBS subdeployment displays in the Settings for FCUBS_SystemModule - Messages screen.

Change Center	Home Log	Out Preferences 🔤 🛛	Record Help		Q		Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts		ry of JDBC Data Sources BS SystemModule	>FLEXTEST.V	VORLD >Summary of .	MS Servers >Summary (of JDBC Data Sources >	FLEXTEST.WORLD >Summary of JMS Servers >JMS
Pending changes exist. They must be activated to take effect.	Messages	ment created successfu	illy.				
	Settings for FO	UBS_SystemModule	2				
Undo All Changes	Configuration	Subdeployments	Targets	Security Notes			
Domain Structure							
⊖-Messaging JMS Servers Store-and-Forward Agents JMS Modules Path Services	Subdeployn	ients					Showing 1 to 1 of 1 Previous Next
El-Bridges	Name	eŵ		Resources			Targets
Persistent Stores Foreign JNDI Providers	FCUB:	5				1	FCUBS_JMSServer
How do I	New Del	ete					Showing 1 to 1 of 1 Previous Next
Configure subdeployments in JMS system modules							
Configure JMS system modules							
System Status							
System Status							
System Status							
Health of Running Servers							
Health of Running Servers Failed (0)							

Figure 7-53 Settings for FCUBS_SystemModule - Messages

12. Click the Activate Changes button under Change Center. The message All the changes have been activated. No restarts are necessary displays.

The **Settings for FCUBS_SystemModule - Activate changes Messages** screen displays.

Change Center	Home Log C	Out Preferences 🔤 R	ecord Help		Q		Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts		y of JDBC Data Sources IS SystemModule	FLEXTEST.V	/ORLD >S	ummary of JMS Servers >Summar	y of JDBC Data Sources > FLEXTEST.WORLD > S	ummary of JMS Servers >JMS
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	have been activated. I	lo restarts ar	e necessa	ary.		
	Settings for FC	UBS_SystemModule					
Release Configuration	Configuration	Subdeployments	Targets	Security	Notes		
omain Structure							
Environment Deployments Services ← Messaging ↓→ JMS Servers ↓→ JMS Modules	grouped and t Customize t Subdeploym	argeted to a server res his table ents	ource (such a	as JMS ser	vers, server instances, or duste	n).	uch as queues, topics, and connection factories) are
Path Services	Click the Lock	& Edit button in the Ci	hange Center	to activa	te all the buttons on this page.		
Bridges Data Sources							Showing 1 to 1 of 1 Previous Next
Persistent Stores Foreign JNDI Providers	Name	~		Res	ources	Targets	
Work Contexts	FCUBS					FCUBS_JMSServer	
tow do I Configure subdeployments in JMS system modules	New Dele	(e)					Showing 1 to 1 of 1 Previous Next
Configure JMS system modules							
ystem Status							
iealth of Running Servers							
Failed (0)							
Critical (0)							
Overloaded (0)							
Warning (0)							
OK (2)							

Figure 7-54 Settings for FCUBS_SystemModule - Activate Changes Messages

The **Subdeployment** is created.

7.1.5 Create JMS Queue

This topic provides the systematic instructions to create the JMS Queue in the Weblogic application server.

To create the JMS Queue, follow the steps given below:

- **1.** Select the JMS Module created earlier.
- Click on the Configuration tab and then click Lock & Edit button under Change Center. The Settings for FCUBS_SystemModule - Configuration tab displays.

ORACLE WebLogic Server®	Administration Cons	sole							9
hange Center	Home Log Out	Preferences 🔤 R	Record Help		Q		We	elcome, weblogic	Connected to: fcubs113_doma
iew changes and restarts	Home >Summary of Modules >FCUBS_S		>FLEXTEST.W	/ORLD >Sum	mary of JMS Servers >Summ	nary of JDBC Dat	a Sources >FLEXTEST.WORLD >Summar	ry of JMS Servers >JM	15
o pending changes exist. Click the Release onfiguration button to allow others to edit the	Settings for FCUBS	5_SystemModule							
Lock & Edit	Configuration	Subdeployments	Targets S	ecurity N	otes				
Release Configuration	This page displays	general information	n about a JMS	system mod	dule and its resources. It al	iso allows you to	configure new resources and access e	existing resources.	
brain Structure	Name:		F	CUBS_Syste	mModule		The name of this JMS sys	tem module. More	Info
"Environment "Deployments "Services	Descriptor File Na	ame:	jr	ns/FCUBS_S	ystemModule-jms.xml		The name of the JMS mod	dule descriptor file.	More Info
E-Messaging 	This page summari	izes the JMS resour	ces that have	been creat	ed for this IMS system mod	lule, including au	ueue and topic destinations, connection	factories, JMS temp	plates, destination sort keys.
Store-and-Forward Agents			ations, foreign	i servers, an	d store-and-forward paran	neters.			
Store-and-Forward Agents JMS Modules Path Services BBridges	Customize this	table	ations, foreign	i servers, an	d store-and-forward paran	neters.			
Store-and-Forward Agents TMS Modules Parth Services Data Sources Persistent Stores		table	ations, foreign	i servers, an	d store-and-forward paran	neters.			ving 0 to 0 of 0 Previous Next
Store-and-Forward Agents JiMS Movies IP ath Services IP and Services Data Sources Persitent Stores Persign JNO Providers Work Contexts	Customize this	table sources	tions, foreign	servers, an	d store-and-forward paran	neters.	Subdeployment		
- Store and Forward Agents - 'H& Modular - Path Services GH Bridges - Data Sources - Perstant Stores - Persent JND Providers - Work Contexts	Customize this Summary of Res	table sources		a servers, an	3NDI Name	are no items to	Subdeployment		ving 0 to 0 of 0 Previous Next
Horsen and Agents work Contexts w work Contexts Configure Jub/Gaytamodules Con	Customize this Summary of Res	table sources		n servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next
Horor-and-Porward Agents Horor-And-Porward Agents Horor-And-Porward Agents Horor-And-Porward Services Horor-And-Porward Services Foreign JND: Providers Ward: Contexts w do L. Configure JND: system modules Configure subdeployments in JNS system modules	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Hore and Forward Agents Path Services Head Services Path Services Path Services Path Services Parestent Stores Foreign JND Providers Work Contexts w do L Configure subdeployments in JMS system modules Configure resources for JMS system modules	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Horsen and Forward Agents Horsen Status Horsen Status Horsen Status Horsen Status Horsen Status Horsen Status	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Hore-and-Porvierd Agents Hore-and-Porvierd Agents Hore-and-Porvierd Agents Hore-and-Sources Data Sources Data Sources Deta Sources Persistent Stores Foreign JND: Providers Work Contexts work Contexts work Contexts do L. Configure JNS: system modules Configure audideloyments in JNS system dodale configure resources for JNS system modules stem Status	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Horor-and-Forward Agents Horor-And-Forward Agents Hords Hor	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Hore-and-Forward Agents Hore-and-Forward Agents Hore-and-Forward Agents Hore-and-Forward Agents Hore-and-Sources Parts Services Parts Services Parts Services Port Services	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets
Store-and-Forward Agents	Customize this Summary of Res	table sources		servers, an	3NDI Name	neters.	Subdeployment	Show	ving 0 to 0 of 0 Previous Next Targets

Figure 7-55 Settings for FCUBS_SystemModule

3. On the Settings for FCUBS_SystemModule - Configuration tab, click New. The Create a New JMS System Module Resource screen displays.



nge Center	🛍 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_doma
w changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Sum Modules >FCUBS_SystemModule	mary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS
rending changes exist. Click the Release figuration button to allow others to edit the ain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Cancel	
Release Configuration	Choose the type of resource you want to create.	
nain Structure	Use these pages to create resources in a JMS system module, such as queues, topics, te	mplates, and connection factories.
s113_domain invironment beployments ervices		on for creating the resource. For targetable resources, like stand-alone queues and topics, connection can also proceed to targeting pages for selecting appropriate server targets. You can also associate JMS module resources and the members to server resources.
Messaging JMS Servers Store-and-Forward Agents	O Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
→JMS Modules →Path Services B→Bridges →Data Sources		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
Persistent Stores Foreign JNDI Providers Work Contexts	🔿 Торіс	Defines a publish/subscribe destination type, which are used for asynchronou peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
onfigure quotas for destinations	O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
onfigure JMS templates onfigure destination keys	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
onfigure topics onfigure queues onfigure connection factories	O Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info
onngure connection factories onfigure uniform distributed topics onfigure uniform distributed queues	🔿 Quota	Controls the allotment of system resources available to destinations. More Info
onfigure foreign servers onfigure JMS SAF	O Destination Sort Key	Defines a unique sort order that destinations can apply to arriving messages. More Info
tem Status	🔿 JH5 Template	Defines a set of default configuration settings for multiple destinations. More Info
th of Running Servers	SAF Imported Destinations	Defines a collection of imported store-and-forward (SAF) destinations. A SAF
Failed (0) Critical (0) Overloaded (0)	U SAF Imported Destinations	destination is a representation of a queue or topic in a remote server instance or cluster that is imported into the local cluster or server instance, so that the local server instance or cluster can send messages to the remote server instance or cluster. More Info

Figure 7-56 Create a New JMS System Module Resource

4. Select the **Queue** option and then click **Next**.

The **Create a New JMS System Module Resource - JMS Destination Properties** screen displays.

Figure 7-57 Create a New JMS System Module Resource - JMS Destination Properties

Change Center	🕼 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Summary of JDBC D Modules >FCUBS_SystemModule	ata Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource	
domain.		
	Back Next Finish Cancel	
Release Configuration	JMS Destination Properties	
Domain Structure	The following properties will be used to identify your new Queue. The current module is FCUBS_System	lodule.
cubs113_domain	* Indicates required fields	
# Environment	" indicates required heids	
Deployments BServices		
C - Messaging	* Name: NOTIFY_DEST_QUEUE	
-JMS Servers		
Store-and-Forward Agents	JNDI Name: NOTIFY DEST QUEUE	
JMS Modules		
Path Services	Template:	
Bridges Data Sources	Template: None 🗸	
Persistent Stores		
-Foreign JNDI Providers	Back Next Finish Cancel	
Work Contexts		
How do I		
Configure quotas for destinations		
 Configure JMS templates 		
 Configure destination keys 		
Configure topics		
Configure queues		
Configure connection factories		
Configure uniform distributed topics		
Configure uniform distributed queues		
Configure foreign servers		
Configure JMS SAF		
System Status		
System Status		
Health of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		



For more information, refer to the fields description table.

 Table 7-7
 JMS Destination Properties

Filed	Description
Name	Specify the Name of the Queue as NOTIFY_DEST_QUEUE .
JNDI Name	Specify the JNDI Name as NOTIFY_DEST_QUEUE
Template	Select the Template as None from the drop-down.

5. Click Next.

The Create a New JMS System Module Resource - Select Subdeployment screen displays.

Figure 7-58 Create a New JMS System Module Resource - Select Subdeployment

ORACLE WebLogic Server	Administration Console		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domai
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Su Modules >FCUBS_SystemModule	ummary of JMS Servers >Summary of JDBC Data Sou	rces >FLEXTEST.WORLD >Summary of JMS Servers >JMS
io pending changes exist. Click the Release onfiguration button to allow others to edit the omain.	Create a New JMS System Module Resource		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	The following properties will be used to target your	new JMS system module resource	
omain Structure	Use this page to select a subdeployment to assign this system	n module resource. A subdeployment is a mechani	sm by which JMS resources are grouped and targeted to a server instance, cluster, or nt button. You can also reconfigure subdeployment targets later by using the parent
ubs113_domain 🔺	module's subdeployment management page.	and y closely the create a new subacployme	ne parcent near an and reconfigure coordeproyment of gets later by doing the parent
Deployments Services	Select the subdeployment you want to use. If you select (non	e), no targeting will occur.	
Herein Messaging	Subdeployments: FCUBS V Crea	ate a New Subdeployment	
JMS Modules	What targets do you want to assign to this subdeployment?		
Path Services	Targets :		
Data Sources	Turgeest		
Persistent Stores			
Foreign JNDI Providers	JM5 Servers		
Work Contexts	FCUBS_JMSServer		
ow do I			
Configure quotas for destinations	Back Next Finish Cancel		
Configure JMS templates	Dack Next Thisi Carter		
Configure destination keys			
Configure topics			
Configure queues			
Configure connection factories			
Configure uniform distributed topics Configure uniform distributed queues			
Configure uniform distributed queues Configure foreign servers			
Configure IMS SAF			
Compare and aAr]		
vstem Status	1		
ealth of Running Servers			
Failed (0)	1		
Critical (0)			
Overloaded (0)			
e			🔍 Local intranet 🔍 100%

6. Select the managed server created and click **Finish** button.

The new JMS System Module Resource is created and displays a message on the Setting for FCUBS_SystemModule screen confirming that JMS Queue are created successfully.

Change Center	Home Log Ou	t Preferences 🔤	Record He	lp 🛛	Q	Welcome	e, weblogic Connected to: fcubs113_dom
/iew changes and restarts	Home >Summary Modules >FCUBS		s >FLEXTES	T.WORLD >Summ	ry of JMS Servers >Summary of JDBC Da	ta Sources >FLEXTEST.WORLD >Summary of JM!	S Servers >JMS
Pending changes exist. They must be activated take effect.	Messages	ue was created succ	cessfully				
Activate Changes	Settings for FCU	BS_SystemModul	le				
Undo All Changes	Configuration	Subdeployments	Targets	Security Not	25		
omain Structure							
ubs113_domain	This page displa	ys general informati	on about a .	JMS system modu	e and its resources. It also allows you t	o configure new resources and access existing	resources.
- Deployments	Name:			FCUBS_System	todule	The name of this JMS system mo	odule. More Info
MessagingJMS ServersStore-and-Forward AgentsJMS Modules	Descriptor File	Name:		jms/FCUBS_Sys	emModule-jms.xml	The name of the JMS module des	scriptor file. More Info
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Customize th						
Persistent Stores Foreign JNDI Providers		esources					Showing I to 1 of 1 Previous Next
Persistent Stores Foreign JNDI Providers Work Contexts ow do I Configure JMS system modules	Summary of R	esources		Туре	JNDI Name	Subdeployment	Showing I to 1 of 1 Previous Next
Persistent Stores Poreign JND: Providers Work Contexts work Contexts Configure JMS system modules Configure subdeployments in JMS system modules	Summary of R	esources		Type Queue	JNDI Name NOTIPY_DEST_QUEUE	Subdeployment FCU8S	
Persistent Stores Provides Work Contexts Work Contexts Work Contexts Configure JAS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules	Summary of R	esources					Targets FCU85_JMSServer
Persistent Stores Personal JDDI Providers Work Context Work Context Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules rystem Status	Summary of R	esources					Targets FCU85_JMSServer
Fersign JDDI Poviders	Summary of R	esources					Targets
Persistent Stores Personal JDDI Providers Work Context Work Context Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules rystem Status	Summary of R	esources					Targets FCU85_JMSServer
Perseitant Stores Providers Work Context Work Context Onfigure JNS system modules Configure subdeployments in JNS system modules Configure resources for JNS system modules restem Status	Summary of R	esources					Targets FCU85_JMSServer
Persetant Stores Persetant Stores Work Contexts Work Contexts Configure JMS system modules Configure subdeolyments in JMS system modules configure subdeolyments in JMS system modules peaked of Rumning Servers Failed (0)	Summary of R	esources					Targets FCU85_JMSServer

Figure 7-59 Settings for FCUBS_SystemModule - JMS Queue Messages

7. Click the Activate Changes button under Change Center.

The message displays on the Settings for FCUBS_SystemModule screen confirming that All the changes have been activated. No restarts are necessary.

Figure 7-60 Settings for FCUBS_SystemModule - JMS Queue Activate changes Messages

hange Center	Home Log O	ut Preferences 🔤	Record Help	p	Q		Wel	come, weblogic Connected to: fcubs113_doma
Tiew changes and restarts	Home >Summary Modules >FCUB	of JDBC Data Source	s >FLEXTEST	WORLD >Su	immary of JMS Ser	vers >Summary of JDBC Da	ata Sources >FLEXTEST.WORLD >Summary	of JMS Servers >JMS
lo pending changes exist. Click the Release onfiguration button to allow others to edit the	Settings for FCL	BS SystemModul	le					
omain.	Configuration	Subdeployments	Targets	Security	Noter			
Lock & Edit	comgaration	Sabaepioymenta	Targeta	Secondy	NO CES			
Release Configuration	This page displ	ays general informati	on about a J	MS system m	odule and its reso	urces. It also allows you t	to configure new resources and access exi	sting resources.
main Structure				FCUBS Sys			The name of this JMS syste	
bs113_domain	Name:			FCUB5_Sys	temmodule		The name of this JMS syste	m module. More mo
*Environment *Deployments	Descriptor File	Name:		jms/FCUBS_	SystemModule-jm	s.xml	The name of the JMS modu	le descriptor file. More Info
Services								
E Messaging		narizes the JMS resound ta, distributed destin					queue and topic destinations, connection f	actories, JMS templates, destination sort keys,
	destination quo	ta, distributed destir	hations, forei	ign servers, a	and store-and-for	ward parameters.		
JMS Modules	Customize th	is table						
JMS Modules Path Services ⊞-Bridges Data Sources	Summary of I	Resources						
JMS Modules Path Services BPath Services Path Sources Persistent Stores		Resources						Showing 1 to 1 of 1 Previous Next
JMS Modules Path Services ⊞Bridges Data Sources	Summary of I	Resources						
MS Modules Path Services B+Bridges Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Summary of I	Resources		Туре			Subdeployment	Targets
TMS Modules Path Services Path Services Path Services Path Services Path Sources Parestant Stores Providers Work Contexts word L.	Summary of I	Resources		Type Queue		ame _DEST_QUEUE	Subdeployment FCUBS	
JNS Modules Path Services Path Services Data Sources Persistent Stores Persistent Stores Persiden JIOD Providers Work Contexts Work Contexts	Summary of I	Resources						Targets
- 355 Modules - Parts Services ID: Produes - Ports Sources - Person 7100 Providers - Work Contexts w do L Configure 3105 system modules Configure 3105 system	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer
M3 Modules Parks Services Brindges Data Sources Person JIDD Providers Provide JIDD Providers Provide Configure JIPS system modules Configure subdeployments in JMS system modules Configure subdeployments in JMS system modules	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer
MS Modules Parts Sources Brendpes Data Sources President Stores President Stores Procept JND Providers work Contexts work Contexts Configure 3MS system modules Configure subdeportments in 3MS system modules	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer
MS Modules Parts Services Brindges Persotent Stores Persotent Stores Procept JRC Providers Work Context Work Context Configure 3/MS system modules Configure studies/ments in JMS system modules reservices for JMS system modules reservices	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer
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MS Modules Parts Services Brindges Data Sources Persolent Stores Procept JND Providers Work Contexts work of L. Configure 3MS system modules Configure subdestorements in 3MS system modules Configure resources for 3MS system modules aster of Running Servers	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer
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Host Modules Configure subdeployments in 2MS system modules Configure resources for 3MS system modules Host	Summary of I New Delet Name NOTIFY	Resources						Targets FCUBS_JMSServer

8. Click New to create more Queues. Follow the steps from 3 to 7.

The JMS Queue has been created successfully.



7.1.6 Create JMS Connection Factory

This topic explains the systematic instructions to create the JMS Connection Factory in the Weblogic application server.

After creating the queues, you need to create the connection factory. To create the JMS Connection Factory, follow the steps given below:

1. On the Settings for FCUBS_SystemModule - Configuration tab, select the newly created JMS Queue module.

The Settings for FCUBS_SystemModule - Configuration tab displays.

nange Center	Home Log Ou	t Preferences 🔛	Record Hel	p		Q		Welcome, web	logic Connected to: fcubs113_dom
ew changes and restarts	Home >Summary Modules >FCUBS		s >FLEXTEST	WORLD >S	ummary of J	IMS Servers >Summary of JDBC	Data Sources > FLEXTEST.WORLD > S	Summary of JMS Serv	ers >JMS
pending changes exist. Click the Release	Settings for FCU		la						
ain.	_			-					
Lock & Edit	Configuration	Subdeployments	largets	Security	Notes				
Release Configuration	This page displa	ys general informati	on about a J	MS system r	module and	its resources. It also allows yo	ou to configure new resources and a	ccess existing resour	rces.
main Structure	Name:			FCUBS Sv	stemMed de		The erms of this 1	IMS system module.	Mara Tafa
os113_domain	name.			10003_39	sterniniodule		The hame of this p	inis system module.	Hore Info
Deployments	Descriptor File	Name:		jms/FCUBS	_SystemMo	idule-jms.xml	The name of the J	MS module descripto	r file. More Info
Services È-Messaging	This page summ	arized the TMS recov	reas that ha	we heen cre	asted for th	ie 1MS evetem module, indudin	on queue and tonic destinations, con	naction factoriae 1W	IS templates, destination sort keys,
JMS Servers						and-forward parameters.	ig queue and topic describitions, con	riection ractories, an	is templates, destination sort keys,
Store-and-Forward Agents									
JMS Modules	De la la la								
JMS Modules Path Services	Customize the	s table							
JMS Modules Path Services B⊡Bridges	Customize the	S COURTE							
JMS Modules Path Services	Summary of R	esources							Showing 1 to 1 of 1 Draviaux Nevt
	r costoniae an	esources							Showing 1 to 1 of 1 Previous Next
	Summary of R	esources		Туре		JNDI Name	Subdeployment		Showing 1 to 1 of 1 Previous Next Targets
	Summary of R New Delete Name 4	esources		Туре		JNDI Name voTIFY_DEST_QUEUE	Subdeployment FCUBS		
	Summary of R	esources							Targets FCUBS_JMSServer
	Summary of R New Delete Name 4	esources							Targets
Wide Modules Parks Modules Parks Modules Data Sources Persistent Stores Program JND Providers Viciót Contexts w do I Configure JMS system modules Configure subdeployments in JMS system modules	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
Miss Modules Parts Services Brindges Data Sources Brindges Data Sources Work Contexts Work Contexts Work Contexts Work Contexts Configure subdeployments in JNS system modules Configure resources for JMS system modules	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
MS Modules Protis Services Bit Findges Data Sources Previsitant Stores Providers Providers Work Contexts work work Contexts work Contexts work Contexts work	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
MS Modules Protis Services Bit Findges Data Sources Previsitant Stores Providers Providers Work Contexts work work Contexts work Contexts work Contexts work	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
MS Modules Pati Services Bi-Bridges Data Sources Persistent Stores Persistent Stores Porcent NOL Providers Work Contexts work Contexts work System modules Configure subdeployments in JNS system modules configure resources for JNS system modules steem Status dith of Running Servers	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
MS Modules Prote Services Br-Bridges Data Sources Persistent Stores Persistent Stores Porcep J101 Providers work Contexts work Contexts work Sources Configure subseloyments in JNS system modules configure resources for JNS system modules steem Status Persistent Stores Paled (0)	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer
	Summary of R New Delete Name @ NOTIFY	esources							Targets FCUBS_JMSServer

Figure 7-61 Settings for FCUBS_SystemModule

2. Click New.

The Create a New JMS System Module Resource screen displays.

hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_doma
iew changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Summary Modules >FCUBS SystemModule	of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS
to pending changes exist. Click the Release configuration button to allow others to edit the omain.	Create a New JMS System Module Resource	
	Back Next Finish Cancel	
Release Configuration	Choose the type of resource you want to create.	
omain Structure	Use these pages to create resources in a JMS system module, such as queues, topics, templa	tes, and connection factories.
ubs113_domain BrEnvironment BrDeployments BrServices		or creating the resource. For targetable resources, like stand-alone queues and topics, connection also proceed to targeting pages for selecting appropriate server targets. You can also associate 5 module resources and the members to server resources.
Hersaging JMS Servers Store-and-Forward Agents	③ Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
JMS Modules Path Services ⊡-Bridges Data Sources	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
Persistent Stores Foreign JNDI Providers Work Contexts	С Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
ow do I E	Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Configure JMS templates Configure destination keys	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
Configure topics Configure queues	○ Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info
Configure connection factories Configure uniform distributed topics Configure uniform distributed queues	🔿 Quota	Controls the allotment of system resources available to destinations. More Info
Configure foreign servers Configure JMS SAF	O Destination Sort Key	Defines a unique sort order that destinations can apply to arriving messages. More Info
ystem Status	JMS Template	Defines a set of default configuration settings for multiple destinations. More Info
ealth of Running Servers	SAF Imported Destinations	Defines a collection of imported store-and-forward (SAF) destinations. A SAF
Failed (0) Critical (0) Overloaded (0)	U SAF Imported Destinations	destination is a representation of a queue or topic in a remote server instance or cluster that is imported into the local dutter or server instance, so that the local server instance or cluster can send messages to the remote server instance or cluster. Where Info

Figure 7-62 Create a New JMS System Module Resource

3. Select the **Connection Factory** option and then click **Next**.

The **Create a New JMS System Module Resource - Connection Factory Properties** screen displays.

Figure 7-63 Create a New JMS System Module Resource - Connection Factory Properties

	Home Log Out Preferences Record Help		Welcome, weblogic Connected to: fcubs113 don
je Center		WORLD >Summary of JMS Servers >Summary of JDBC Data S	
changes and restarts	Modules >FCUBS_SystemModule	WORLD > Summary of JMS Servers > Summary of JUBC Data S	sources >FLEXTEST.WORLD >Summary or IMS Servers >IMS
nding changes exist. Click the Release uration button to allow others to edit the 1.	Create a New JMS System Module Resource		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	Connection Factory Properties		
	The following properties will be used to identify yo	our new connection factory. The current module is FCUBS_	SystemModule.
in Structure	* Indicates required fields		
13_domain	-		
ployments	What would you like to name your new connection	factory?	
vices Messaging	* Name:	NotifyDestQCF	
JMS Servers Store-and-Forward Agents JMS Modules	What JNDI Name would you like to use to look up yo	your new connection factory?	
Path Services	JNDI Name: N	NotifyDestQCF	
-Data Sources -Persistent Stores	The Connection Factory Subscription Sharing Policy	y Subscribers can be used to control which subscribers can	access new subscriptions. Should subscriptions created using this factory be sharable?
•Foreign JNDI Providers •Work Contexts	Subscription Sharing Policy:	Exclusive 💌	
lo I E	The Client ID Policy indicates whether more than on	ne JMS connection can use the same Client ID. Oracle reco	mmends setting the Client ID policy to Unrestricted if sharing durable subscribers.
figure quotas for destinations	Subscriptions created with different Client ID policie	ies are always treated as independent subscriptions. What	Client ID Policy would you like to use?
figure JMS templates figure destination keys	Client ID Policy:	Restricted	
figure topics figure queues	A connection factory can limit the number of messa	ages that can queued for an asynchronous session. Should	this connection factory impose a limit?
figure connection factories	Maximum Messages per Session: 1	10	
figure uniform distributed topics figure uniform distributed queues	Should this connection factory create sessions that	it are JTA aware, and create XA queues and XA topics?	
figure foreign servers			
figure JMS SAF	✓ XA Connection Factory Enabled		
m Status 🛛	Back Next Finish Cancel		
of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			



For more information, refer to the fields description table.

 Table 7-8
 Connection Factory Properties

Filed	Description
Name	Specify the Name of the Connection factory asNotifyDestQCF.
JNDI Name	Specify the JNDI Name as NotifyDestQCF
Client ID Policy	Select the Client ID policy as Restricted from the drop-down.

4. Select the XA Connection Factory Enabled check box and click Next.

The Create a New JMS System Module Resource - Targets screen displays.

Figure 7-64 Create a New JMS System Module Resource - Targets

<pre>branch branch bran</pre>	hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domain
Implicit a flow offers to define the define the IMS system Hodele Resource Implicit a flow offers to define the following properties will be used to target for the default targets are based on the permit XMS system module targets. If you do not want to escent the default targets for your new XMS system module resource. If the module's targets are based on the permit XMS system module targets. If you do not want to escent the default targets for your new XMS system module resource. If the module's targets are based on the permit XMS system module targets. If you do not want to escent the default targets for your new XMS system module resource. If the module's targets are changed, this resource will also be retargeted accomptibility. The following XMS module targets will be used as the default targets for your new XMS system module resource. If the module's targets are changed, this resource will also be retargeted accomptibility. The following XMS module targets will be used as the default targets for your new XMS system module resource. If the module's targets are changed, this resource will also be retargeted accomptibility. The following XMS module targets are targeting. The following XMS module targets are targeting. The following XMS module targets are targeting. Cancell The following XMS module targets are targeting. The following targets are targeting. The following XMS module targets are targeting. Cancell The following targets are targeting. Cancell The following targets are targeting. Cancell Toring targets are targets are targets are targeting.	New changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >Summary of JDBC I Modules >FCUBS SystemModule	Data Sources > FLEXTEST.WORLD > Summary of JMS Servers > JMS
Interest State Interst State Interst State Interst	to pending changes exist. Click the Release configuration button to allow others to edit the	Create a New JMS System Module Resource	
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bit 13_domain bit 13_domain Environment Depolyments Services Phose services Configure equates for destructiones (avaluate f	Release Configuration	The following properties will be used to target your new JMS system module resource	
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Bridge Data Sources Personalisation Stores Personalisation Stores Configure quatures Configure guature	JMS Servers	Targets :	
Parsistent Stores Prevent JDD Provides Vork Contasts Vork Contast Vork Contasts	JMS Modules	Servers	
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configure destination keys configure topics configure topics configure uniform distributed opices configure uniformities	Configure quotas for destinations		
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tem Status to of Running Servers Palled (0) Critical (0)	onfigure uniform distributed queues		
tem Status E the of Running Servers Felied (0) Critical (0)	onfigure foreign servers		
Hth of Running Servers Failed (0) Critical (0)	Configure JMS SAF		
Failed (0) Critical (0)	tem Status 🖂		
Critical (0)	alth of Running Servers		
	Failed (0)		
Overloaded (0)			

5. Click on the Advanced Targeting.

The **Create a New JMS System Module Resource - Advance Targeting** screen displays.

System Status System Status Configure abloshing desting a ways. Gold the Bedges of DBBC DBB Sources > BLD/TEST WORLD > Sources > Sources > FLD/TEST WORLD > Sou	S system module resource resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or sing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent rgeting will occur.			
Configure fon bulken to a kilw others to edit the others. De dit the other is the difference of the other is the other is the difference of the other is the other is the difference of the other is the othe	resource. A subdeployment is a mechanism by which 305 resources are prouved and targeted to a server instance, cluster, or sing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent regeting will occur.	View changes and restarts		>FLEXTEST.WORLD > Summary of JMS Servers >JMS
Conduct & Edit Rebease Configuration Contrain Structure Cold 31 domain Contrain Structure Structure Structure Structure Structure Contrain Structure Configure structure	resource. A subdeployment is a mechanism by which 305 resources are proceed and targeted to a server instance, cluster, or sing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent regeting will occur.	Configuration button to allow others to edit the	Create a New JMS System Module Resource	
when show the function is a machanism by which JNS resources are grouped and targeted to a server tradem is a backgologyment by doing the Create a New Subdeployment by which JNS resources are grouped and targeted to a server tradem is a machanism by which JNS resources are grouped and targeted to a server tradem SAR agent. If necessary, you can oreast a new subdeployment by doing the Create a New Subdeployment by utility. Not can also reconfigure subdeployment targets later by using the system module resource. A subdeployment by using the Create a New Subdeployment by utility. Not can also reconfigure subdeployment targets later by using the system module resource. A subdeployment by using the Create a New Subdeployment by utility. Not can also reconfigure subdeployment targets later by using the system module resource. A subdeployment by using the Create a New Subdeployment by utility. Not can also reconfigure subdeployment targets later by using the system module resource. A subdeployment by using the Create a New Subdeployment by using the Subdeployment by	resource. A subdeployment is a mechanism by which 36g resources are grouped and targeted to a server instance, cluster, or sing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent regeting will occur.		Back Next Finish Cancel	
SAF Spert. Threesesser, you can oreate a new subdeployment by doing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by usin Services Services Services Select the subdeployment to use. If you select (none), no targeting will occur. Subdeployments Subdeployments Subdeployments Subdeployment to use. If you select (none), no targeting will occur. Subdeployments Subdeployments	sing the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent rgeting will occur.	Release Configuration	The following properties will be used to target your new JMS system module resource	
ubds112_commin modu/es subdeployment page. Deployments Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments Subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments Subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments Figure and Forward Agents JMS Bruces What targets do you want to assign to this subdeployment? Targets : FCUBS © Create a New Subdeployment? Targets : Servers Wat targets do you want to assign to this subdeployment? HanagedServer1 Targets : FCUBS_INISServer Configure topics Fruits_Servers Configure uniform distributed topics Fruits_INISServer Configure uniform distributed topics Finain Configure NISS Servers Finain Configure NISS Servers Finain Configure Uniform distributed topics Finain Configure NISS Servers Finain	rgeting will occur.	Jomain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism b	y which JMS resources are grouped and targeted to a server instance, cluster, or
<pre>iserves</pre>		Environment		utton. You can also reconfigure subdeployment targets later by using the parent
shoteployments: FCUBS For spin XID For work dgets Subdeployments: For spin XID For work dgets What targets do you want to assign to this subdeployment? Targets: For spin XID For work dgets Configure units Configure Units for destinations Configure Units for destinations (eys) Configure Units for destinations (eys) Configure Units for destinations (eys) Configure Units for destinations Exemption: File Intellige	v Subdeployment	Services	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
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vw do L Image: Configure gluss for destinations Configure gluss for destinations IMS Servers Configure gluss IMS Servers Configure gluss Image: Finish Cancel				
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alth of Running Servers		salth of Running Servers		
Pailed (0)				
Critical (0)		Critical (0)		

Figure 7-65 Create a New JMS System Module Resource - Advance Targeting

- 6. Select the **Subdeployments** as **FCUBS** from the drop-down list.
- 7. Under the JMS Servers, select the check box against Managed Server.
- 8. Click Finish.

The message displays on the Settings for FCUBS_SystemModule screen confirming that Connection Factory created successfully.

Change Center	Home Log O	ut Preferences 🔛	Record He	lp	Q		Welcome,	weblogic Connected to: fcubs113
iew changes and restarts		/ of JDBC Data Source 5_SystemModule	s >FLEXTES	T.WORLD >Summ	ery of JMS Servers	>Summary of JDBC Data Source	s >FLEXTEST.WORLD >Summary of JMS S	iervers >JMS
nding changes exist. They must be activated	Messages							
take effect.	Connection	factory created succe	essfully.					
Activate Changes		,						
Undo All Changes	Settings for FCU	JBS_SystemModul	le					
	Configuration	Subdeployments	Targets	Security Not	es			
omain Structure								
bs113_domain Finvironment Deployments	This page displ	ays general informati	on about a .	JMS system modu	e and its resource	es. It also allows you to configu	re new resources and access existing re	sources.
Services Hessaging	Name:			FCUBS_System	1odule		The name of this JMS system modu	le. More Info
JMS Servers 	Descriptor File	Name:		jms/FCUBS_Sys	temModule-jms.xr	nl	The name of the JMS module descr	iptor file. More Info
IMS Modules								
JMS Modules	This page sum	narizes the JMS resou	urces that h	ave been created	for this JMS syste	em module, including queue and	topic destinations, connection factories	, JMS templates, destination sort keys
	This page sum destination que	narizes the JMS resound ta, distributed destir	urces that h nations, fore	ave been created sign servers, and	for this JMS syste store-and-forward	em module, including queue and d parameters.	topic destinations, connection factories	, JMS templates, destination sort keys
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-Path Services GH-Bridges Data Sources Persistent Stores Foreign JNDI Providers	destination que	ota, distributed destir nis table	urces that h nations, fore	ave been created	for this JMS syst store-and-forwari	em module, including queue and d parameters.	topic destinations, connection factories	, JMS templates, destination sort keys
Path Services H-Bridges Data Sources Persistent Stores	destination que	ota, distributed destir nis table	urces that h nations, fore	ave been created	for this JMS syst store-and-forward	em module, including queue and d parameters.	topic destinations, connection factories	, JMS templates, destination sort keys
Path Services Data Sources Persistent Stores Foreign JNDI Providers	destination que	nis table	urces that h nations, fore	ave been created	for this JMS syste store-and-forward	em module, including queue and d parameters.	topic destinations, connection factories	, JMS templates, destination sort keys Showing 1 to 2 of 2 Previous
Path Services Path Services Path Services Path Services Persetent Stores Persetent Stores Persetent Stores Work Contexts Work Contexts Configure JMS system modules	estination que	ota, distributed destir nis table Resources	urces that h hations, fore	ave been created eign servers, and Type	for this JMS syste store-and-forward	em module, including queue and j parameters. JNDI Name	topic destinations, connection factories	
Peth Services The Endpect Present Sources Prevent Sources Prevent Sources Provent Sources Provent Sources Work Contexts Work Contexts Configure 3MS system modules Configure aubdeployments in 3MS system modules	Customize th Summary of I	ita, distributed destri nis table Resources	urces that h hations, fore	eign servers, and	store-and-forwar	d parameters.		Showing 1 to 2 of 2 Previous
Hornes Hornes	Customize th Summary of I New, Delet Name NotifyD	ita, distributed destri nis table Resources	urces that h hations, fore	Type	store-and-forwar	JNDI Name	Subdeployment	Showing 1 to 2 of 2 Previous Targets
Park Services The Holdes The Holdes Data Sources Persetant Stores Procep JNUD Providers Torong JNUT Providers Toron	Customize th Customize th Summary of I New, Delet Name NotifyD NOTIFY	Alstributed destributed destri	urces that h hations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous 1 Targets FOLBS_INGServer POLBS_INGServer
Head Services Head Services Deta Sources Deta Sources Persistent Stores Provide 1 Work Contexts wide L. Configure 3MS system modules Configure aubdeployments in 3MS system modules Configure resources for 3MS system modules researces that and a service services researces for 3MS system modules researces	Customize th Summary of I New Delet	Alstributed destributed destri	urces that h nations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous 1 Targets PCU85_3MSServer
Horizania Services Horizania Ho	Customize th Customize th Summary of I New, Delet Name NotifyD NOTIFY	Alstributed destributed destri	urces that h nations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous Targets FOLBS_INServer POLBS_INSErver
Heart Services Heart Services Heart Services Data Sources Data Sources Data Sources Persitent Stores Persitent Stores Vork Contexts vod L. Configure JMS system modules Configure audoeployments in JMS system modules Configure resources for JMS system modules stem Status station of Running Services	Customize th Customize th Summary of I New, Delet Name NotifyD NOTIFY	Alstributed destributed destri	urces that h nations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous Targets FOLBS_INServer POLBS_INSErver
Pent Services Pent Services Pent Services Persite Sources Persite Sources Persite Sources Provelop JICD Providers Work Contexts w do L Configure 2015 system modules Configure VIS system modules Configure Presources for JINS system modules stem Status Pailed (0)	Customize th Customize th Summary of I New, Delet Name NotifyD NOTIFY	Alstributed destributed destri	urces that h hations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous Targets FOLBS_INServer POLBS_INSErver
Path Services Protect Protect	Customize th Customize th Summary of I New, Delet Name NotifyD NOTIFY	Alstributed destributed destri	urces that h nations, fore	Type Connection Fact	store-and-forwar	JNDI Name NotfyDestQCF	Subdeployment FCL85	Showing 1 to 2 of 2 Previous Targets FOLBS_INServer POLBS_INSErver

Figure 7-66 Settings for FCUBS_SystemModule - Connection Factory Messages



9. To have the XA Connection Factory enabled, click the Connection Factory NotifyDestQCF from the Summary of Resources table.

The Settings for NotifyDestQCF screen displays.

ange Center	🔒 Home Log Out Preferences 🔤 Record Help							Welcome, weblogic Connected to: fcubs113_doma
ew changes and restarts	Home > FLEX Modules > FC	TEST.WORLD >Su UBS_SystemModu	immary of : le >NotifyD	IMS Servers >Su NestQCF >FCUBS	ummary of JDBC D 5_SystemModule >	ata Sources >FLE NotifyDestQCF	XTEST.WORLD >Sum	amary of JMS Servers >JMS
nding changes exist. They must be activated take effect.	Settings for	NotifyDestQCF						
Activate Changes	Configurati	on Subdeploy	ment No	otes				
Undo All Changes	General	Default Delivery	Client	Transactions	Flow Control	Load Balance	Security	
main Structure	Save							
s113_domain Environment Deployments Services	Use this pa	ge to define the g	ieneral con	nfiguration para	meters for this JI	1S connection fa	ctory, which includes	various client connection, default delivery, load balancing, and security parameters.
E-Messaging	<mark>6</mark> 문 Name:	NotifyDe	itQCF					The name of this JMS connection factory. More Info
Store-and-Forward Agents JMS Modules Path Services	JNDI Name	NotifyE	estQCF]	The global JNDI name used to look up a connection factory within a dustered JNDI namespace. More Info
Pari Services Pari Services Data Sources ""Persistent Stores "Foreign JNDI Providers	Get Calult Targeting Enabled Specifies whether this 3MS resource defaults to the parent module or uses the subdeployment targeting mechanism. More Info Advanced						Specifies whether this JMS resource defaults to the parent module's targeting or uses the subdeployment targeting mechanism. More info	
Work Contexts	Save							
w do I								
Configure connection factories								
stem Status 🖂								
alth of Running Servers								
Failed (0)								
Critical (0)								
Overloaded (0)								
OK (2)								

Figure 7-67 Settings for NotifyDestQCF

10. Click the **Transactions** tab.

The Settings for NotifyDestQCF - Transactions tab displays.

Figure 7-68 Settings for NotifyDestQCF - Transactions

hange Center	🕜 Home Log Out Preferences 🔤 Record H	elp Q	Welcome, weblogic Connected to: fcubs1	13_dom					
iew changes and restarts	Home > FLEXTEST.WORLD > Summary of JMS Ser Modules > FCUBS SystemModule > NotifyDestOCF	vers >Summary of JDBC Data Sources >FLE >FCUBS SystemModule >NotifyDestOCF	EXTEST.WORLD »Summary of JMS Servers »JMS						
ending changes exist. They must be activated take effect.	Settings for NotifyDestOCF	Modules >FCUBS_SystemModule >HotfyDetQCF > FCUBS_SystemModule >HotfyDestQCF Settians for MolfyDest0CF							
Activate Changes	Configuration Subdeployment Notes								
Undo All Changes	General Default Delivery Client Trans	actions Flow Control Load Balance	e Security						
main Structure	Save								
*Environment *Deployments *Services	Use this page to define the transaction configure factory is returned, which create sessions that		ou can define a transaction time-out value, and also indicate whether an XA queue or XA topic conner	ction					
-MessagingJMS ServersStore-and-Forward Agents	Transaction Timeout:	3600	The timeout value (in seconds) for all transactions on connections cre- this connection factory. More Info	ated with					
INS Modules Path Services B-Bridges Data Sources Persistent Stores	🗹 樻 XA Connection Factory Enabled		Indicates whether a XA queue or XA topic connection factory is return instead of a queue or topic connection factory. An XA connection fac- be used to create an AXConnection, which in turn may be used to or XASession, which in turn may be used to obtain an XAResource for us a transaction manager. Move Info	tory can sate an					
	Save								
ew do I									
Configure connection factories									
stem Status									
alth of Running Servers									
Failed (0)									
Failed (0) Critical (0)									

- **11.** Select the **XA Connection Factory Enabled** check box.
- 12. Click the Save button.

The message displays on the Settings for NotifyDestQCF - Messages screen confirming that Settings updated successfully.



Change Center	Home L	.og Out Preferenc	es 💽 Re	cord Help		Q		Welcome, weblogic Connected to: fcubs113_dom
View changes and restarts	Home > FLE	EXTEST.WORLD >Si FCUBS SystemModu	ummary of	JMS Servers >Sun	nmary of JDBC Da	ta Sources »FLEX	TEST.WORLD >Sumr	mary of JMS Servers »JMS
Pending changes exist. They must be activated to take effect.	Messages	is updated success		Anger Freudo	ay see in the set	ourybenger		
Activate Changes			runy.					
Undo All Changes	Settings fo	r NotifyDestQCF						
	Configura	tion Subdeploy	ment N	otes				
omain Structure	General	Default Delivery	Client	Transactions	Flow Control	Load Balance	Security	
ubs113_domain E-Environment Deployments	Save							
B-Services H-Messaging JMS Servers Store-and-Forward Agents		age to define the t returned, which cr					i can define a transa	action time-out value, and also indicate whether an XA queue or XA topic connection
→JMS Modules →Path Services Bridges	Transacti	Transaction Timeout: 3600						The timeout value (in seconds) for all transactions on connections created with this connection factory. More Info
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	✓ <u>4</u> 9 x	🗹 🥂 XA Connection Factory Enabled						Indicates whether a XA queue or XA topic connection factory is returned, instead of a queue or topic connection factory. An XA connection factory can be used to create an XAconnection, which in turn may be used to create an XASession, which in turn may be used to obtain an XAResource for use inside a transaction manacer. More Info
low do I]							
Configure connection factories	Save							
ystem Status	a)							
lealth of Running Servers								
Failed (0)	1							
Critical (0)								
Overloaded (0)								
Warning (0)	1							
Warning (U)								

Figure 7-69 Settings for NotifyDestQCF - Messages

13. Click the **Activate Changes** button under **Change Center**.

The message displays on the Settings for NotifyDestQCF screen confirming that All the changes have been activated. No restarts are necessary.

Figure 7-70 Settings for NotifyDestQCF - Activate Changes

ORACLE WebLogic Server	Administration Console	Q								
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_domain								
View changes and restarts	Home »FLEXTEST.WORLD »Summary of JMS Servers »Summary of JDBC Data Sources »FLEXTEST.WORLD »Summary of JMS Servers »JMS Modules »FCUBS SystemModule »NetifyOsetOCF »FCUBS SystemModule »MotifyOsetOCF									
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages									
	Settings for NotifyDestQCF									
Release Configuration	Configuration Subdeployment Notes									
Domain Structure	General Default Delivery Clent Transactions Flow Control Load Balance Security									
Lbb112_domain # Denvironment * Deployments * Services * Store and Forward Agents * MM Modules * *	Click the Lock & Editbutton in the Change Center to modify the settings on this page. Save Use this page to define the transaction configuration for this 3%5 connection factory. You can define a transaction factory is returned, which oreate accounts that are JTA user-transaction aware. Transaction Timeout:	The timeout value (in seconds) for all transactions on connections created with this connection factory. More Info								
Work Contexts w do I Configure connection factories	Geve	Indicates whether a XA queue or XA topic connection factory is returned, instead of a queue or topic connection factory. An acconection factory can be used to create an XAConnection, which in turn may be used to create an XACesson, which in turn may be used to obtain an XAResource for use inside a transaction manager. More Infb								
ystem Status E lealth of Running Servers										
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)										

The JMS Connection Factory is created.

7.2 Configure Weblogic for PMGateway

This topic explains to configure Weblogic for PMGateway.

To deploy and run the PMGateway application in the WebLogic server following configuration needs to be done.



Copy runtime12.jar from database servers <code>ORACLE_HOME/sqlj/lib</code> to application servers library path <code>WEBLOGIC HOME/user projects/domains/<app-domain>/lib</code>.

7.3 Configure Weblogic for Oracle Banking Corporate Lending

This topic provides the systematic instructions to configure the Oracle WebLogic application server for Oracle Banking Corporate Lending.

To configure the Oracle WebLogic application server, follow the steps below:

 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console

The Oracle Weblogic Server - Welcome screen displays.



Figure 7-71 Oracle Weblogic Server - Welcome

Specify the WebLogic administrator Username, Password and click Log In.
 Oracle Weblogic Server - Home Page screen displays.



Change Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
	Helpful Tools	General Information	
	 Configure applications 	 Common Administration Task Descriptions 	
	Configure GridLink for RAC Data Source	 Read the documentation 	
omain Structure	 Recent Task Status 	 Ask a question on My Oracle Support 	
ubs113_domain B-Environment	 Set your console preferences 	Oracle Guardian Overview	
Deployments B-Services	- Domain Configurations		
Security Realms	Domain	Services	Interoperability
-Interoperability	Domain	Messaging	WTC Servers
B-Diagnostics		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
	Clusters	 Path Services 	Log Files
	Virtual Hosts	 Bridges 	Diagnostic Modules
	Migratable Targets	Data Sources	Diagnostic Images
low do I	Coherence Servers	Persistent Stores	Request Performance
	Coherence Clusters	XML Registries	Archives
 Search the configuration 	Machines	XML Entity Caches	Context
Use the Change Center	Work Managers	Foreign JNDI Providers	SNMP
Record WLST Scripts	Startup And Shutdown Classes	Work Contexts	
Change Console preferences		• JCOM	Charts and Graphs
Monitor servers	Your Deployed Resources	Mail Sessions	Monitoring Dashboard
	Deployments	FileT3	
system Status		• JTA	
ealth of Running Servers	Your Application's Security Settings		
Failed (0)	Security Realms		
Critical (0)			
Overloaded (0)			
Warning (0)			

Figure 7-72 Oracle Weblogic Server - Home Page

Select the domain from the domain structure as shown below. (Eg: fcubs113_domain).
 Settings for fcubs113_domain screen displays.

Figure 7-73	Settings for fcubs113	_domain
-------------	-----------------------	---------

inge Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_dom
w changes and restarts	Home >Summary of JMS Servers >Summary of JDBC I Modules >FCUBS_SystemModule >NotifyDestQCF >FC	Data Sources > FLEXTEST.WORLD > Summary of JMS S CUBS SystemModule > NotifyDestOCF > fcubs113 do	iervers >JMS main
pending changes exist. Click the Release figuration button to allow others to edit the ain.	Settings for fcubs113_domain		
Lock & Edit	Configuration Monitoring Control Security	y Web Service Security Notes	
Release Configuration	General JTA JPA EJBs Web Application	ns Logging Log Filters	
nain Structure	Save		
s113 domain Invironment Deployments ervices Messaging	A domain is a collection of WebLogic Server instanc domain. * Indicates required fields	ces that is managed by a single Administration Serv	er. Use this page to configure administrative options that apply to all servers in the current
JMS Servers Store-and-Forward Agents JMS Modules	*Name:	fcubs113_domain	The name of this WebLogic Server domain. More Info
Path Services B-Bridges Data Sources Persistent Stores	Enable Administration Port		Specifies whether the domain-wide administration port should be enabled for this Weblogic Server domain. Because the administration port uses SSL, enabling the administration port requires that SSL must be configured for all servers in the domain. More Info
Foreign JNDI ProvidersWork Contexts	Administration Port:	9002	The common secure administration port for this WebLogic Server domain. (Requires you to enable the administration port.) More Info
do I	🚝 Production Mode:	true	Specifies whether all servers in this domain run in production mode. Once enabled, this can only be disabled in the admin server startup command line. More Info
thive configuration files able the Console em Status	🗌 🕂 Enable Exalogic Optimizations		Specifies whether optimizations for Oracle Exologic should be enabled. Optimizations include improved thread nanogenerit and request processing configuration with the control of the Debug. For more information, see "Enabling Exologic-Specific Enhancements in Oracle WebLogic Server 11g Release 1 (10.3.4)" in the Oracle Exologic Depolyment Guide. Nove Infor
Failed (0) Critical (0)	🗌 🚱 Enable Cluster Constraints		Specifies that deployments targeted to a cluster succeed only if all servers in the cluster are running. More Info
Overloaded (0) Warning (0)	🕑 🛃 Enable on-demand deployment of in	iternal applications	Specifies whether internal applications such as the console, uddi, wistestclen and uddiexplorer are deployed on demand (first access) instead of during server startup. More Info
OK (2)	🗌 🕂 Enable Oracle Guardian Agent		Specifies whether the Guardian Agent is deployed when starting servers in th current domain. More Info

4. Under the **Configuration** tab, select **Web Applications**.

Settings for fcubs113_domain - Web Applications tab displays.



Change Center	🙆 Home Log Out Preferences 🔤 Red	ord Help	Q		Welcome, weblogic Connected to: fcubs113_dom	
View changes and restarts	Home >FLEXTEST.WORLD >Summary of J Sessions >fcubs113_domain	MS Servers >J	CF >FCUBS_SystemModule >NotifyDestQCF >fcubs113_domain >Summary of Mail			
lick the Lock & Edit button to modify, add or lelete items in this domain.	Settings for fcubs113_domain					
Lock & Edit	Configuration Monitoring Control Security Web Service Security Notes					
Release Configuration	General JTA JPA EJBs Web	Application	Logging Log Filters			
omain Structure	Click the Lock & Edit button in the Cha	nge Center to	modify the settings on th	s page.		
ubs113_domain All All All All All All All All All Al	Save					
Deployments B-Services D-Messaging JMS Servers	Use this page to define the domain-wide	Use this page to define the doman-wide Web application configuration settings.				
→ Jin's Servers → Store- and Forward Agents → Jin's Modules → Path Services B→Bridges → Data Sources	🗌 🏀 Relogin Enabled				Beginning with the 9.0 release the FORM/BASIC authentication behavior has been modified to conform shirt(v) to the 22EE Specification. If a user has POREIDDEN gauge with be extrained. Turn the flag on to enable the add behavior, which was to return the user to the logn form. Hore Info	
Previsitent Stores Providers Providers Work Contexts tow do L. Deploy Web applications Stop deployed Web applications Detete Web applications	🗌 🎼 Allow All Roles				In the security-constraints elements defined in a Web application's web xml deployment descriptor, the sub-constraint element indicates the user roles = "" is a compact syntax for indicating all roles in the Web application. In previous relaxes, role-name = "" was treated as all user since defined in the relatil behavior is one required by the spec, meaning all roles defined in the web applications. If set, the wale defined in webloc, xml (containe-descriptor - sillow-all-roles) basis precedence (if set) over this value. Hore Info	
Update run-time descriptors system Status sealth of Running Servers Failed (0) Critical (0) Overloaded (0) Werning (0) O(2)	🗌 🏀 Filter Dispatched Requests				Indicates whether or not to apply filters to dispatched requests. This is a bedrawet compatibility flag. Lithi version 8.1, viets/opt Service applied from directory of the service 2-4 was included to the service applied (and includes) forwards). Service 2-4 was included the "Dispatcher effective to make this behavior applicit. The default value is Dispatcher #EQUEST. In order to be compaint with the J2EE specification, the default value for FilterDispatchedRequestEntibilities in false beginning with Viets.org C server 8.0, and the default of the service and the service of the service and the service research and the default value is Dispatcher and the service research and the default value is and the service filterDispatchedRequestEstimabile at value for the Web applications, unless there adjusticies requestes maked as excluding value for modification. This means that old applications will work filter without any modification. This mean that old applications will work filter without any modification.	
Un (2)	Overload Protection Enabled			This parameter is used to arbit overload protection in the webapp container against low memory conditions. When a low memory stuation occurs, new session creation attempts will real in weblog: careful. Essential in a carb this exception and take proper action. Alternatively appropriate error- pages can be conflored in web. wild against		

Figure 7-74 Settings for fcubs113_domain - Web Applications

5. Check the options JSP Compiler Backwards Compatible and Archived Real Path Enabled.

	Figure 7-75	Settings for fcubs113	domain - Web A	pplications 2
--	-------------	-----------------------	----------------	---------------

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 shou honored. (This is needed only when WebLogic plughs are configured.) Infi
✓ 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 aff authentication. When this property set to "failed", the previous sessionID be retained even after authorization. More Info
WAP Enabled	Indicates whether the session ID should include 3VM information. (Check this box may be necessary when using URL rewriting with VMP devices limit the size of the URL to 23 characters, and may also affect the use replicated sessions in a cluster.) When this box is selected, the default is 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 drunks of data in HTTP POST data before it times out. (This is used to prevent denial-of-se attacks that attempt to overload the server with POST data.) More inf
Maximum Post Time: -1	Max Post Time (in seconds) for reading HTTP POST data in a servlet requ MaxPostTime < 0 means unlimited More Info
Maximum Post Size: -1	The maximum post size this server allows for reading HTTP POST data in servlet request. A value less than 0 indicates an unlimited size. More In
✓ Work Context Propagation Enabled	Indicates whether or not WorkContextPropagation is enabled. By defaul turned on. There is a little overhead involved in propagating WorkContex Therefore, if you don't care about WorkContext propagation, turn this v off in production environments. More Info
8월 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 t policy reference file for the Web site. More Info
☑ 🖉 JSP Compiler Backwards Compatible	Global property to determine the behavior of the 13P compiler. When this property set to "true", the 13P compiler throws a translation error for 33 that do not conform to the 13P2.0 specification. This property exists for backward compatibility. More Info
🕑 🎳 Archived Real Path Enabled	Global property to determine the behavior of getRealPath() for archived applications. When this property set to "true", getRealPath() will return t

6. Click Save.

A message displays on the **Settings for fcubs113_domain** screen confirming that settings are updated successfully.



	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113_doma				
je Center						
changes and restarts	Home »Summary of JMS Servers »Summary of JDBC Data Sources »FLEXTEST.WORLD »Summary of JMS Modules »FCUBS_SystemModule »NotifyDestQCF »FCUBS_SystemModule »NotifyDestQCF » fcubs113_d	Servers >JMS omain				
g changes exist. They must be activated	Messages					
effect.	Settings updated successfully.					
Activate Changes						
Undo All Changes	Settings for fcubs113_domain					
	Configuration Monitoring Control Security Web Service Security Notes					
in Structure	General JTA JPA EJBs Web Applications Logging Log Filters					
13 domain	General JTA JPA EJBs Web Applications Logging Log Filters					
vironment	Save					
ployments						
vices "Messaging	Use this page to define the domain-wide Web application configuration settings.					
JMS Servers	ose and page to ownine the domain mule web application comigar adort settings.					
Store-and-Forward Agents JNS Modules Path Services B-Bridges Data Sources	🗌 🙋 Relogin Enabled	Beginning with the 9.0 release the FORM/BASIC authentication behavior has been modified to conform strictly to the JZEE Specification. If a user has logged-in but does not have privileges to access a resource, the 403 (FORBIDEN) page will be returned. Turn this flag on to enable the did behavior, which was to return the user to the logn form. Where Info				
Persistent Stores		behavior, which was to return the user to the login form. More thic				
Foreign JNDI Providers	🗌 🔗 Allow All Roles	In the security-constraints elements defined in a Web application's web.xml deployment descriptor, the auth-constraint element indicates the user roles that should be permitted access to this resource collection. Here role-name =				
lo I loy Web applications o deployed Web applications te Web applications ate run-time descriptors		*** is a compact syntax for indicating all roles in the Web application. In previous releases, role -mane = *** was retated as all users/role defined in the realm. This parameter is a backward-compatibility work to restore add behavior. Default behavior is one required by the peor, emerging all roles defined in the web application. If set, the value defined in weblogic.xml (container-descriptor -> allow-all-roles) takes precedence (if set) over this value. More Info				
m Status	🗌 🕂 Filter Dispatched Requests	Indicates whether or not to apply fitters to dispatched requests. This is a backward compability flag. Until version 8.1, WebLogic Server applied ServletFilters (if configured for the Web application) on request dispatches (and includes/forwards). Servlet 2.4 has introduced the 'Dispatcher' element				
Failed (0)		to make this behavior explicit. The default value is Dispatcher «REQUEST. In order to be complaint with the JZEE specification, the default value for FilterDispatchedRequestEnabled is false beginning with WebLogic Server 9.0.				
Critical (0)		Note that if you are using old descriptors (meaning web.xml does not have version=2.4), then WebLogic Server automatically uses				
Overloaded (0)		FilterDispatchedRequestsEnabled = true for the Web applications, unless				
Warning (0)		filter-dispatched-requests-enabled is explicitly set to false in weblogic.xml. This means that old applications will work fine without any modification.				
OK (2)		Additionally, during migration of old domains to the 9.0 domain, the migration plugin automatically sets this flag to true. More Info				
	Overload Protection Enabled	This parameter is used to enable overload protection in the webapp container against low memory conditions. When a low memory situation occurs, new session creation attempts will require in weblogic.servlet.Session/CreationException. The application code needs to catch this exception and balae proper action. Alternative your appropriate error appropriate and the proper action. Alternative appropriate error appropriate action and the proper action. Alternative appropriate error memory appropriate error appropriate error error.				

Figure 7-76 Settings for fcubs113_domain - Messages

7. Click the Activate Changes button under the Change Center.

The message displays on the Settings for fcubs113_domain screen confirming that All the changes have been activated. No restarts are necessary.

7.4 Configure Mail Session in Weblogic

This topic describes the set of configurations changes required in the Oracle Weblogic Server when Oracle Banking Corporate Lending is configured to generate and send passwords to users via e-mail.

This topic contains the following sub-topics:

- Create JavaMail Session This topic explains the systematic instructions to create JavaMail session.
- Configuration of the TLS/SSL Trust Store for Weblogic Server This topic explains the configuration of the TLS/SSL Trust Store for Weblogic Server.

7.4.1 Create JavaMail Session

This topic explains the systematic instructions to create JavaMail session.

To configure the JavaMail session, follow the steps below:

 Start the Administrative Console of the WebLogic application server. Enter the Oracle WebLogic Admin Console URL in the address bar in an internet browser. For example: http://10.10.10.1001/console.

The Oracle Weblogic Server - Welcome screen displays.



Figure 7-77 Oracle Weblogic Server - Welcome

 Specify the WebLogic administrator Username, Password and click Log In. The Oracle Weblogic Server - Home Page screen displays.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_doma
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
	Helpful Tools	General Information	
	Configure applications	 Common Administration Task Descriptions 	
	Configure GridLink for RAC Data Source	 Read the documentation 	
Domain Structure cubs113 domain	 Recent Task Status 	 Ask a question on My Oracle Support 	
-Environment	 Set your console preferences 	 Oracle Guardian Overview 	
Deployments IServices	- Domain Configurations		
-Security Realms	Domain	Services	Interoperability
Interoperability	Domain	Messaging	WTC Servers
⊞-Diagnostics		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
	Clusters	 Path Services 	Log Files
	Virtual Hosts	 Bridges 	Diagnostic Modules
	Migratable Targets	Data Sources	Diagnostic Images
How do I	Coherence Servers	Persistent Stores	Request Performance
	Coherence Clusters	XML Registries	Archives
Search the configuration	Machines	 XML Entity Caches 	Context
Use the Change Center	Work Managers	 Foreign JNDI Providers 	SNMP
Record WLST Scripts	 Startup And Shutdown Classes 	 Work Contexts 	
Change Console preferences Monitor servers		• JCOM	Charts and Graphs
Monitor servers	Your Deployed Resources	Mail Sessions	 Monitoring Dashboard P
System Status	Deployments	• FileT3	
system status		• JTA	
Health of Running Servers	Your Application's Security Settings		
Failed (0)	Security Realms		
Critical (0)			
Overloaded (0)			
Warning (0)			

Figure 7-78 Oracle Weblogic Server - Home page

- 3. On the left pane, under **Domain Structure**, expand **Services** and Click **Mail Sessions** under it.
- 4. Click the Lock & Edit button.

The Summary of Mail Sessions screen displays.

hange Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_dom		
/iew changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD : Modules >FCUBS SystemModule >NotifyDestOCF >FCUBS Sy	>Summary of JMS Servers >JMS ystemModule >NotifyDestOCF >fcubs113 domai	n >Summary of Mail Sessions		
to pending changes exist. Click the Release Configuration button to allow others to edit the	Summary of Mail Sessions				
lomain. Lock & Edit Release Configuration	Mail sessions facilitate the process of using the JavaMail A Protocol (SMTP)-capable mail servers on your network or t This page summarizes the mail sessions that have been co	the Internet.	EE modules with access to Internet Message Access Protocol (IMAP)- and Simple Mail Transfer		
Oomain Structure					
Messaging MS Servers	Customize this table				
Store-and-Forward Agents	Mail Sessions (Filtered - More Columns Exist)				
Path Services	New Clone Delete		Showing 0 to 0 of 0 Previous Next		
Data Sources	🔲 Name 🖘	Properties	JNDI Name		
Foreign JNDI Providers	There are no items to display				
Work Contexts XML Registries XML Entity Caches YCoM 	New Clone Delete		Showing 0 to 0 of 0 Previous Next		
iow do L.					
Configure access to JavaMail					
Target mail sessions					
Delete mail sessions					
ystem Status					
iealth of Running Servers					
Failed (0)					
Critical (0)					
Overloaded (0)					
Warning (0)					
OK (2)					

Figure 7-79 Summary of Mail Sessions

5. Click the **New** button.

The Create a New Mail Session screen displays.

Figure 7-80 Create a New Mail Session

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: fcubs113_domain
View changes and restarts	Home > Summary of JDBC Data Sources > FLEXTEST.WORLD > Summary of JM Modules > FCUBS SystemModule > NotifyDextQCF > FCUBS SystemModule > 1	MS Servers >JMS NotifyDestOCE >fruits113 domain >Summary of	Mail Sessions
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Mail Session		
	Back Next Finish Cancel		
Release Configuration	Mail Session Properties The following property will be used to identify your new mail session.		
Domain Structure	* Indicates required fields		
fcubs113_domain B Environment	What would you like to name your new mail session?		
Deployments Services Messaging JMS Servers	* Name: FCUBSMailSessio	m	
Store-and-Forward Agents JMS Modules Path Services	a∰ * JNDI Name: mail/FCUBSMail		
⊕ Bridges → Data Sources → Persistent Stores → Foreign JNDI Providers → Work Contexts	BayaMai Properties: mail.host=stbeehive.oracle.com mail.smtps.debug=true mail.smtps.port=smtps mail.smtps.uth=true		
How do I	mail.smtps.host=stbeehive.oracle.com		
Configure access to JavaMail Target mail sessions	Back Next Finish Cancel		
System Status			
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			

For more information, refer to the fields description table.

6. Click Next.

Create a New Mail Session - Targets screen displays.



	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: fcubs113 domai
Change Center		welcome, weblogic connected to: fcubs113_doma
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS Modules >FCUBS_SystemModule >NotifyDestQCF >FCUBS_SystemModule >NotifyDestQCF >fcubs113_domai	>Summary of Mail Sessions
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Mail Session	
	Back Next Finish Cancel	
Release Configuration	Mail Session Targets	
Domain Structure fcubs113 domain	This page indicates on which WebLogic Server instances or clusters the mail session is accessible. Only session.	applications that have been deployed to the selected servers or clusters can use this mail
Brenvironment →Deployments Brenvices Dressaging	When you target all or part of a cluster, the Administration Console initiates a two-phase deployment : fails for all active servers.	in general, such a deployment ensures that if the deployment fails for one active server, it
	Servers	
Store-and-Forward Agents JMS Modules Path Services	AdminServer	
⊞-Bridges Data Sources Persistent Stores	✓ ManagedServer1	
Foreign JNDI Providers Work Contexts	Back Next Finish Cancel	
How do I		
 Configure access to JavaMail 		
 Target mail sessions 		
System Status		
Health of Running Servers		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)		
OK (2)		

Figure 7-81 Create a New Mail Session - Targets

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

The 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 Universal Banking Installer.

8. Click the Activate Changes button under the Change Center to activate the current mail session settings.

The message displays on the Summary of JDBC Data Sources - Activate Changes Message confirming that All the changes have been activated. No restarts are necessary.



Change Center	🕜 Home Log Out Preferences 🗁 Record Help	to: fcubs113_doma				
View changes and restarts	Home >Summary of JDBC Data Sources >FLEXTEST.WORLD >Summary of JMS Servers >JMS Modules >FCUBS SystemModule >NotifyDestQCE >FCUBS SystemModule >NotifyDestQCE >Scubs113 domain >Summary of Mail Sessions					
Pending changes exist. They must be activated to take effect.	Messages					
Activate Changes	S Mail session created successfully.					
Undo All Changes	Summary of Mail Sessions					
Domain Structure ☐ "Messaging	Mail sessions facilitate the process of using the JavaMail APIs, which provide applications and other JZEE modules with access to Internet Message Access Protocol (IMAP)- and S Protocol (SMTP)-capable mail servers on your network or the Internet. This page summarizes the mail sessions that have been configured in the current WebLogic Server domain.	imple Mail Transfer				
Data Sources Persistent Stores Foreign JNDI Providers	New Cone Delete Showing 1 to 1 of 1 Previous Next					
Work Contexts XML Registries	Rame 🔅 Properties	JNDI Name				
:XML Entity Caches ;COM	FCUBSMallSession mail.smtps.auth=true mail.smtps.port=smtps mail.smtps.host=stbeehive.orade.com mail.smtps.debug=true mail.host=stbeehive.orade.com	mail/FCUBSMail				
Mail Sessions	New Clone Delete Showing 1 to 1 of	1 Previous Next				
How do 1						
Configure access to JavaMail						
Target mail sessions Delete mail sessions						
Susham Shahua						
System Status						
Failed (0)						
Critical (0)						
Overloaded (0)						
Warning (0)						
OK (2)						

Figure 7-82 Summary of Mail Sessions - Activate Changes Message

The JavaMail Session is created.

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

This topic explains the configuration of the TLS/SSL Trust Store for Weblogic Server.

As described in the previous topic, Oracle Banking Corporate Lending 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 Banking Corporate Lending 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 Banking Corporate Lending 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).

