Oracle® Banking Corporate Lending Configure Weblogic Server 12 c



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ORACLE

Oracle Banking Corporate Lending Configure Weblogic Server 12 c, 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 Oracle Weblogic server. This guide explains the steps required for Configuration and applying best practices in cluster mode for:

- FCUBS 14.4
- Weblogic Version 12.2.1.4.0
- JDK 1.8.0_241

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.



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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.



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:

Abbreviation	Description		
BIP	Business Intelligence Publisher		
EAR	Enterprise Archive file		
EMS	Electronic Messaging Service		
FCUBS	Oracle FLEXCUBE Universal Banking		
FTP	File Transfer Protocol		
GUI	Graphical User Interface		
HTTP	Hypertext Transfer Protocol		
IP	Internet Protocol		
JDBC	Java Database Connectivity		
JDK	Java Development Kit		
JMS	Java Message Service		
JNDI	Java Naming and Directory Interface		
JTA	Java Transaction AP		
JVM	Java Virtual Machine		
MDB	Message-Driven Bean		
NFS	Network File System		
SSL	Secure Sockets Layer		
WLS	WebLogic Server		
ХА	eXtended Architecture		

Table 3 Acronyms and Abbreviations

1 Introduction

This topic contains the following sub-topics:

WebLogic Server Overview
 This topic server overview

This topic provides a brief explanation of the main components involved in the WebLogic server.

• Pre-requisites This topic provides pre-requisites for configuring the Weblogic server.

1.1 WebLogic Server Overview

This topic provides a brief explanation of the main components involved in the WebLogic server.

Domain

A domain is the basic administration unit for WebLogic Server instances. A domain consists of one or more WebLogic Server instances (and their associated resources) that are managed with a single Administration Server. Multiple domains can be defined based on different system administrators' responsibilities, application boundaries, or geographical locations of servers. Conversely, a single domain can be used to centralize all WebLogic Server administration activities.

Each WebLogic Server domain must have one server instance that acts as the Administration Server. Administration Server can be used via the Administration Console or using the command line for configuring all other server instances and resources in the domain.

Figure 1-1 WebLogic Domain Structure





Figure 1-2 Weblogic 12c Domain Overview

Administration Server

A domain includes one WebLogic Server instance that is configured as an Administration Server. All changes to configuration and deployment of applications are done through the Administration Server. The Administration Server provides a central point for managing the domain and providing access to the WebLogic Server administration tools.

These tools include the following:

- WebLogic Server Administration Console: Graphical user interface to the Administration Server.
- WebLogic Server Node Manager: A Java program that lets the user start and stop server instances - both Administration Servers and Managed Servers - remotely, and to monitor and automatically restart them after an unexpected failure.

Admin server start mode needs to be configured as Production Mode.

Managed Server

In a domain, server instances other than the Administration Server are referred to as Managed Servers. Managed servers host the components and associated resources that constitute applications—for example, JSPs and EJBs.

When a Managed Server starts up, it connects to the domain's Administration Server to obtain configuration and deployment settings. In a domain with only a single WebLogic Server instance, that single server works as both the administration server and managed server.

Node Manager

The Managed Servers in a production WebLogic Server environment are often distributed across multiple machines and geographic locations.

Node Manager is a Java utility that runs as a separate process from the WebLogic Server and allows the user to perform common operations tasks for a Managed Server, regardless of its location with respect to its Administration Server. While the use of Node Manager is optional, it



provides valuable benefits if WebLogic Server environment hosts applications with high availability requirements.

If the user runs Node Manager on a machine that hosts Managed Servers, the user can start and stop the Managed Servers remotely using the Administration Console or from the command line. Node Manager can also automatically restart a Managed Server after an unexpected failure.

Machine

A machine in the Weblogic Serve context is the logical representation of the computer that hosts one or more Weblogic Server instances(servers). The Admin Server uses the machine definitions to start remote servers through the Node Managers that run on those servers. A machine could be a physical or virtual server that hosts an Admin or Managed Server that belongs to a domain.

Managed Server Cluster

Two or more Managed Servers can be configured as a WebLogic Server cluster to increase application scalability and availability. In a WebLogic Server cluster, most resources and services are deployed to each Managed Server (as opposed to a single Managed Server,) enabling failover and load balancing.

The servers within a cluster can either run on the same machine or reside in different machines. To the client, a cluster appears as a single WebLogic Server instance.

Dynamic Cluster

A dynamic cluster is any cluster that contains one or more dynamic servers. Each server in the cluster will be based upon a single shared server template. The server template allows to configure each server the same and ensures that servers do not need to be manually configured before being added to the cluster. This allows the user to easily scale up or down the number of servers in the cluster without the need for setting up each server manually. Changes made to the server template are rolled out to all servers that use that template.

The user cannot configure dynamic servers individually; there are no server instance definitions in the config.xml file when using a dynamic cluster. Therefore, the user cannot override the server template with server-specific attributes or target applications to an individual dynamic server instance.

When configuring a cluster, the user specifies the maximum number of servers expect to need at peak times. The specified number of server instances is then created, each based upon the server template. The user can then start-up however many the user needs and scales up or down over time according to needs. If the user needs additional server instances on top of the number the user originally specified, the user can increase the maximum number of servers instances (dynamic) in the dynamic cluster configuration.

Server Templates

A single server template provides the basis for the creation of dynamic servers. Using this single template provides the possibility of every member being created with the same attributes. Where some of the server-specific attributes like Servername, listen-ports, machines, etc. can be calculated based upon tokens.

The user can pre-create server templates and let Weblogic clone one when a Dynamic Cluster is created.



When none is available a server template is created with the Dynamic Cluster. The name and the listen ports are the only server template attributes that the user provides during Dynamic Cluster creation.

Figure 1-3 Simplified Configuration with Scalability and Elasticity



Simplified Configuration with Scalability and Elasticity

Simplified Operations for Cluster Scale Out



1.2 Pre-requisites

This topic provides pre-requisites for configuring the Weblogic server.

The user is going to create a domain with two managed servers. The managed servers are going to be created on two different physical servers (nodes). Note that, this document has been prepared based on a test conducted in Linux servers. This requires a Weblogic Server of the same version to be installed on both the machines and services.

Environment

2 servers where Linux is installed, 1 will be primary where the admin console will be running along with managed servers, and the other where only managed servers will be.

Softwares

- 1. Oracle Weblogic Server 12.2.1.4 was installed on both machines under the same folder structure.
- 2. JDK 1.8 Latest available version installed on both machines. In this document, the JDK1.8.0_241 version is used.

Clock Synchronization

The clocks of both the servers participating in the cluster must be synchronized to within one-second difference to enable proper functioning of jobs otherwise it will lead to session timeouts.

• Enable Graphical User Interface (GUI)

Establish a telnet or SSH connection to the primary server. Start X-manager (or any similar tool) on windows desktop. Export DISPLAY environment variable to the machine IP where x-manager is running. Syntax: **export DISPLAY=<ip-address>:<port>**

Test using xclock



2 Domain Configuration

This topic contains the following sub-topics:

- Create Domain This topic provides systematic instructions to create Domain.
- Pack and Unpack Domain This topic provides information on the Pack and Unpack utility.
- Start Admin server This topic provides systematic instructions to start the Admin server.
- Start Node Manager This topic provides systematic instructions to start the Node Manager.

2.1 Create Domain

This topic provides systematic instructions to create Domain.

Weblogic domain creation and configuration will be done from the primary server. From the primary server, launch the fusion Middleware configuration wizard using the command **config.sh** available under **\$WLS_HOME/common/bin** directory.

1. In the Welcome screen, select **Create a new domain** option. Specify the domain name.

Configuration Type	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want to do? Image: Create a new gomain Image: Update an existing domain Image: Domain Location: /scratch/app/w12c/user_projects/domains/FCUBSDomain Browse
	Create a new domain.
Help	< Back Next > Einish Cancel

Figure 2-1 Create Domain

2. Click the Next button.

The **Templates** screen displays.



Templates				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Oreate Domain Using Product Templates: Template Categories: All Templates Available Templates Basic WebLogic Server Domain - 12.1.3.0 [w/server] * WebLogic Advanced Web Services for JAX-RPC Extension - 12.1.3.0 [oracle_common] WebLogic Advanced Web Services for JAX-WS Extension - 12.1.3.0 [oracle_common] WebLogic Coherence Cluster Extension - 12.1.3.0 [w/server] WebLogic JAX-WS SOAP/JMS Extension - 12.1.3.0 [oracle_common]			
	Create Domain Using Custom Template: Template location: /scratch/app/wl12c Browse			
Help	< Back Einish Cancel			

Figure 2-2 Templates

3. Select the required templates from Available Templates and click the Next button. The Administrator Account screen displays.

Administrator Accour		
A Create Domain		
Templates		
Administrator Account		
Domain Mode and JDK		
Advanced Configuration		
Configuration Summary		
Configuration Progress		
O End Of Configuration	Name weblogic	
	Password ••••••	
	Confirm Password	
	Must be the same as the password. Password must contain at least 8 alphanumeric characters with at	least
	one number or special character.	
Help	< Back Next > Finish Ci	ancel

Figure 2-3 Administrator Account

- 4. Specify the **Name**, **Password** and **Confirm Password** fields for administrator user and then click the **Next** button.
 - The specified credentials are used to access the Administration console.
 - The user can use this screen to define the default WebLogic Administrator account for the domain. This account is used to boot and connect to the domain's Administration Server.

The **Domain Mode and JDK** screen displays.



Domain Mode and JDK	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Administration Server Node Manager Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applications to deploy. Production Require the entry or a username and password, and do not poll for applications to deploy. JDK @ Qracle HotSpot 1.7.0_75 /usr/java/jdk1.7.0_75 Other JDK Location:
Неір	<bark next=""> Einish Cancel</bark>

Figure 2-4 Domain Mode and JDK

5. Select server startup as **Production** mode and the available **JDK** and click the **Next** button.

The Advanced Configuration screen displays.





Figure 2-5 Advanced Configuration

6. Select the check box adjacent to Administration Server and Node Manager options and click the Next button.

The Administration Server screen displays.



Administration Server				F		ARE	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Administration Server Node Manager Configuration Summary Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port	AdminServer All Local Addresses 7001 7101					
	Port number mu	ist be between 1 and 655	35, and differe	nt from list	en port and coher	ence po	т .

Figure 2-6 Administration Server

7. Specify the Listen Address and Listen Port for administration server.



The Node Manager screen displays.



	FUSION MIDDLEWARE
Create Domain	
Templates	
Administrator Account	
Domain Mode and JDK	
Advanced Configuration	Node Manager Type
Administration Server	Prr Domain Default Location
🗼 Node Manager	Per Domain <u>C</u> ustom Location
Configuration Summary	Node Manager Home: pp/w12c/user_projects/domains/FCUBSDomain/nodemanager Brow
Configuration Progress	Manual Node Manager Setup
L End Of Configuration	Node Manager Oredentials Username: weblogic Password:
	Confirm Password:
	Must be the same as the password. Password must contain at least 8 alphanumeric characters with at le one number or special character.

Figure 2-7 Node Manager

- 8. Under Node Manager Type, select Per Domain Default Location option.
- 9. Under Node Manager Credentials, specify the Username, Password and Confirm Password and click the Next button.

The **Configuration Summary** screen displays.



Figure 2-8 Configuration Summary

10. Verify the details and click the **Create** button.

The domain creation process is initiated and the progress of completion is indicated in the **Configuration Progress** screen.



Figure 2-9 Configuration Progress

11. Click the **Next** button.

The Admin Server console URL: http://<IP address>:<admin console port>/console

- a. <IP address >: Host on which domain was created.
- **b.** <admin console port> : Port specified in Administration Server configuration page.
 In this case the Admin Console URL is: https://<server1hostname>:7101/console
 The Configuration success message displays in the Configuration Success screen.

Configuration Success	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Administration Server Node Manager Configuration Summary Configuration Progress	 Oracle Weblogic Server Configuration Succeeded New Domain FCUBSDomain Creation Successful Domain Location /scratch/app/w12c/user_projects/domains/FCUBSDomain Admin Server URL http://ofss222565:7001/console

Figure 2-10 Configuration Success

2.2 Pack and Unpack Domain

This topic provides information on the Pack and Unpack utility.

The domain structure is to be copied to the second server during domain creation. To copy the same, the user can use the Pack and Unpack utility provided under **\$WLSHOME/common/bin**.

Domain	Description
Pack	Pack domain in primary server: ./pack.sh -managed=true -domain=/ scratch/app/wl12c/user_projects/domains/FCUBSDomain -template=/tmp/ FCUBSDomain.jar -template_name="FCUBSDomain"
Unpack	Unpack FTP FCBUSDomain.jar in binary mode to secondary server under /tmp area and unpack the domain using unpack utility provided under \$WLSHOME/ common/bin/unpack.sh -domain=/scratch/app/wl12c/user_projects/ domains/FCUBSDomain -template=/tmp/FCUBSDomain.jar

Table 2-1 Pack and Unpack Domain

2.3 Start Admin server

This topic provides systematic instructions to start the Admin server.

Admin server is started on the primary server.

1. To start the admin server, log in to the primary server.



2. Navigate to the folder **\$DOMAIN_HOME/bin** and execute startWeblogic.sh.

2.4 Start Node Manager

This topic provides systematic instructions to start the Node Manager.

Node Manager needs to be started on both servers.

- Before starting the Node Manager, update Listen Address to the Hostname/IP Address of the machine in nodemanager.properties located in the folder \$DOMAIN_HOME/ nodemanager.
- 2. To start the Node Manager, log in to the servers.
- 3. Navigate to the folder **\$DOMAIN_HOME/bin** and execute **NodeManager.sh**.



3 Cluster Configuration

This topic provides information on the steps involved in the cluster configuration.

Dynamic Cluster configuration involves below steps:

- 1. Machine Configuration
- Dynamic Cluster Creation: In a normal WebLogic Cluster, the user defines Managed Server and adds them to the Cluster. In Dynamic Cluster, the user selects the number of servers required in the cluster and the Server Template that can be assigned to servers in this WebLogic Dynamic Cluster.
- 3. Server template modification: Servers (or Managed Server) that are part of WebLogic Dynamic Cluster will have properties taken from Server Template. Modify server template for best practices parameters for Dynamic Servers (part of Dynamic Cluster), the user can modify Server Template that applies to Dynamic Cluster. These settings apply to all the managed servers.
- 4. Activate Changes that would automatically create the managed servers (as mentioned in the number of servers required parameter).

Calculate Number of Servers Required:

This topic contains the following sub-topics:

- Configure Machines
 This topic provides systematic instructions to configure the machine.
- Create Dynamic Cluster This topic provides systematic instructions to create Dynamic Cluster.
- Managed Server Template configuration This topic provides a list of parameters that modifies managed server template.

3.1 Configure Machines

This topic provides systematic instructions to configure the machine.

- 1. Log in to Administration Console and navigate to FCUBSDomain left panel.
- 2. Click the Environment drop-down option and then click the Machines.

The Summary of Machines screen displays.



Figure 3-1 Summary of Machines

ORACLE WebLogic Server	Administration Console 12c	Ŏ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Summary of Machines	
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Machines	
Lock & Edit Release Configuration	A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (sen server in a duster to which certain tasks, such as HTTP session replication, are delegated. The Administration S servers.	vers). WebLogic Server uses configured machine names to determine the optimum erver uses the machine definition in conjunction with Node Manager to start remote
Domain Structure	This page displays key information about each machine that has been configured in the current WebLogic Serve	r domain.
FCUBSOmain D-EnvironmentServers D-ClustersCoherence ClustersVirtual HostsVirtual HostsVirtual Hosts	Cutstomize this table Machines Citick the <i>lack & Edlt</i> button in the Change Center to activate all the buttons on this page. New Come Desite	Showing 0 to 0 of 0. Previous Next
	□ Name ↔	Туре
B-Services	There are no items to displa	ay
D-Interoperability	New Clone Delete	Showing 0 to 0 of 0 Previous Next
How do I		
 Create and configure machines Assign server instances to machines Clone machines 		

3. Click the **New** button.

The Create a New Machine - Machine Identity screen displays.

Figure 3-2 Create a New Machine - Machine Identity

ORACLE WebLogic Server	Administration Console 12c		
Change Center	A Home Log Out Preferences and Record Help	1.9.	Welcome, weblogic Connected to: PCUBSDomain
View changes and restarts	Hore -Summary of Machines		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Machine		
Relate Configuration	Machine Identity The following properties will be used to identify your new that * Indicates reserved fields	dine.	
PCUBDenail Environment Servers Cohenica Cutters - Cohenica Cutters - Cohenica Cutters - Cohenica Cutters - Vinal Hosts - Vindenaid Absta - Work Transjes - Santos - S	What would you Site to came your new Machine? * Marne: Specify the type of machine operating system. Machine OS: Dither Machine OS: Dither		
How do I			

4. Specify the **Name** field for the machine and click the **Next** button.

The Create a New Machine - Node Manager Properties screen displays.

Figure 3-3 Create a New Machine - Node Manager Properties

CIRCHCE Mebrodic server	Administration Console 120	
Change Center	Horee Lag Out Preferences In Record Help	Welcome, weblogic Connected to: FCUBSDomain
Wew changes and restarts	Hore -Summary of Machines	
No pending changes exist. Click the Release Configuration batton to allow others to edit the domain.	Create a New Machine Back, 'Ninit', L'Banh, 'LCarcel,	
Liek & Edit Release Configuration	Node Hanager Properties The following properties will be used to configure the Finde Hanager on this machine.	
Domain Structure	What type of Node Planager is running on this server, and what protocol should be used to communicate with H?	
FOUSDonain Frowss Convers Convers Converse Converse Converse Machines Machines	Type: SSL * Por a Jave based rode manager, not a address and east a blac Ender Byrager configured to laten at?	
Virtual Hists Wark Nonagers 	Listen Address: Joot India	
Services Security Realins Honoreprobility Endemontant	For a script based node manager, baddeenal proportion may be easily need. Node Hamager Home:	
How do L.	Shell Command:	
Create and configure machines Assign server instances to machines Delete machines	Debug Exabled Back, Tool Frien, Careet	
System Status		
Health of Running Servers		



Specify the Listen Address and Listen Port and click the Finish button.
 Listen Port is the port mentioned in nodemanager.properties file.
 The Machine is created in the Summary of Machines screen.

ORACLE WebLogic Server /	Administration Console 12c		
Change Center	A Hene Lag Out. Preferences A Hourd Help	9	Wefcome, weblogic Connected for FCUBSDom
View changes and restarts Click the Lack & Edit button to modify, add or delete items in this domain.	Hans - Sammary of Hackinss Hessages # All changes have been activated. No restarts are recentary		
Lock & Edit	Summary of Hachines		
Release Configuration			
Domain Structure PCURDomain Comment InServers In-Conterner In-Conterner InSchurze Insc	A machine is the logical representation of the compare that serve in a cluster to which certain tasks, such as HTTP sesse- servers. This page displays lev information about each machine that h is Costomize this table Plachines Chick the Lock & Call button in the Change Center to activate	wate one or more Wellungs' Geneer Instan in replication, are delegated. The Administ as been configured in the current Weblung all the battoric on this page.	use lanvents, limits que Grener sure configured muschere nomes to determine the aptimum tration Server uses the machine definition in conjunction with Node Manager to start remote gis Server domain.
Deployments	TANK Clove Delete		Showing 1 to 1 of 2 Previous Next
1º Security Realins ∰ Interspeciality	None 🕫		Type
. Transative	S Nachine1		Machine
How do I	Rimr Clene Dolete		Showing 1 to 1 of 5 Previous Next
Create and configure machines Assign server instances to machines Oren riachines			

Figure 3-4 Summary of Machines - Messages

- 6. Similarly, create a new machine entry for the other server.
- 7. Before starting the managed servers, make sure that the **Node manager Status** of all the machines is **Reachable**.
 - a. In the Admin console, navigate through the **Domain Structure** left panel to **Environment** drop-down option and then click the **Machines**.

The Summary of Machines screen displays.

Figure 3-5 Summary of Machines

Were changes and restarts Invest-thermospie of Handhow Clob the tot & Sidi haftys to markin, odd end defective for the formation of the computer basis are monomany. Hereages Look & Sidi Service Demois Structure Processing to with contain table, such as iTTP section majoration, and end tables to with contain table, such as iTTP section majoration, and endpated in the computer basis to with contain table, such as iTTP section majoration, and endpated in the computer basis to with contain table, such as iTTP section majoration, and endpated in the computer basis that lange of measurements at the lange of measurements at the hard section and section majoration, and endpated in the computer basis that has been configured in the computer basis that the basis to with contain table, such as iTTP section majoration, and the computer basis that has been configured in the computer basis that basis that has been configured in the computer basis that the basis to with contain table, such as iTTP section majoration and the computer basis that has been configured in the computer basis that basis that the basis to with contain table, such as iTTP section majoration and the computer basis that has been configured in the computer basis that basis that the basis that the basis to with the computer basis that the basis to with contain table, such as iTTP section majoration and the computer basis that the computer basis that the basis to with the computer basis that the basis to with the computer basis to with the computer basis that the computer basis to with the computer basis towith the computer basis to with the computer basis to wit	
Lock & 5.51 Semany of Machine Density Comparison A machine in the logical representation of the computer that hash see or more Welkingt: Server instances (servers). Welkingt: Server instances (server). Welkingt: Server instances (serv	
Between Configuration Dermain Structure Configuration Dermain Structure Configuration Dermain Structure Configuration Dermain Structure	
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How do L. Hadrine Hadrine Hadrine Hadrine	
Create and configure machines Were Close Desete	
Anago server initiances to machines Choice machines Deliste machines	Showing 1 to 2 of 2 Previous Rest

b. Click the newly created Machine1.

The Settings for Machine1 screen displays.

Figure 3-6 Settings for Machine1

ORACLE WebLogic Server A	dramistration Console 12c		
Change Center	A Home Log Out Preferences 🖬 Incont Help		Welcome, weblogic Connected to: PCUBSDome
Wew changes and restarts	Home >Sommery of Plachinas >Plachinal >Summary of	Rachines - Nachine2 - Summary of Plachines - Plachi	neL-Summery of Machines -Hachine2 -Summery of Mechines -HachinesL
Click the Lock & Edit betten to modify; add ar	Settings for Machine1		
Lock 5 Pril	Configuration Homiboring Notes		
Reliane Califiquiation	Node Manager Status Node Manager Lag		
Domain Structure	They make allows one to size connect status inform	ation for the Bode Manager instance coefficient	For this market
POUBSDomein -		and the mast standard standards	THE MERITURE CONTRACTOR
Servers	Status:	Reachable	Current status of this Node Hanager. Hore Jafo
Clasters Server Templotes Wignatable Targets Coherence Charters	Version:	12.1.3	Version string returned from the Node Planager. Have Info
Hachines Nitual Hosts Nauk Horagers Startup and Shutdown Classes			

c. Click the Monitoring tab and then click the Node Manager Status. The Status of Machine1 displays and it should be Reachable.

3.2 Create Dynamic Cluster

This topic provides systematic instructions to create Dynamic Cluster.

- 1. Log in to Administration Console and navigate to FCUBSDomain left panel.
- Click the Environment drop-down option and then click the Clusters. The Summary of Clusters screen displays.

WebLogic Server	Administration Console 12c					-
Change Center	🙆 Here Log Out Preferences 🔛 Record Help	9			Welcome, weblogic Connected (to: FCUBSDoes
View changes and restarts No panding changes exist. Click the Release Configuration button to allow others to edit the domain.	Rome -Rachinel -Sammary of Plachine: -Plachinel -Sam Pressages © Operation concelled.	mary of Machines - Hachinal - Surinary o	f Serves - Saverary of Hackeen :	Hacking2 >Summery of S	ever:>Summary of Cluttere	
Lock & Edit	Summary of Clusters					
Dombin Structure CUSCervan Perinament Costers Costers Server Tenglalas Magnitalia Targets	This page summarizes the clusters that have been co A dister defines groups of WebLapic Server servers t Gustombre this trable Clusters (Filtered - Hore Columns Exist) New (Column Column	infigured in the surrent WebLogic Serve	domain. y and reliability.		Skewing 0 to 0 ef 0 1	Previous Next
Hachines	Chatter Duches Editores Obstan Ha	erasian Maria Minastina Barie	Defect Lond Almosther	Parlianting Turns	Charter Bassadourt Channel	Samuel
	Orranic Clister	There a	e na items to display	webscation (the	Coster projectese channel	Screets
Services Services Services	(Meuror) (Clefin) (Dahla)				Shewing 0 to 0 of 0 . A	Previous Next
How do I	=					
Configure distant						

Figure 3-7 Summary of Clusters

3. Click the New drop-down button and select the Dynamic Cluster option.

The Create a New Dynamic Cluster- Cluster Identity and Properties screen displays.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Machine2 >Summary of Machines >Machine1 >Sum	mary of Machines >Machine2 >Summary of Servers >Summary of Ma	achines >Machine2 >Summary of Servers >Summary of Clusters
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Dynamic Cluster Back Next Finish Cancel		
Lock & Edit Release Configuration	Specify Cluster Identity and Properties The following properties will be used to identify your	new dynamic cluster and specify how cluster members should c	communicate with each other to coordinate work.
ECURSDomain	indicates required neids		
E-Environment → Servers ⊕-Clusters → Server Templates	What would you like to name your new dynamic cluster * Name:	? FCUBSCluster]
└──Migratable Targets ──Coherence Clusters ──Machines ──Virtual Hosts	Clusters use messaging for sharing session, load balan simple broadcast technology that enables multiple app does not have these requirements. What messaging m	cing and failover, JMS, and other information between cluster i lications to subscribe to a given IP address and port number ar ode should this cluster use?	members. Clusters can use either unicast or multicast messaging. Multicast is a d listen for messages, but requires hardware configuration and support. Unicast
	Messaging Mode:	Unicast 🔻	
Deployments Services Security Realms	Unicast Broadcast Channel:		
How do I	Multicast Address:	239.192.0.0	
Create dynamic clusters Configure clusters	Multicast Port:	7001	
Configure server migration in a cluster Configure cross-cluster replication	Back Next Finish Cancel		

Figure 3-8 Create a New Dynamic Cluster- Cluster Identity and Properties

4. Specify the **Name** field for the cluster and click the **Next** button.

The Create a New Dynamic Cluster- Dynamic Server Properties screen displays.

Figure 3-9 Create a New Dynamic Cluster- Dynamic Server Properties

ORACLE WebLogic Server A	dministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Machine2 >Summary of Machines >Machine1 >Summary of Machines >Machine2 >Summary of Servers >Summary of	Machines >Machine2 >Summary of Servers >Summary of Clusters
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit	Create a New Dynamic Cluster Back Hext Finish Cancel Specify Dynamic Server Properties Cancel Cancel Cancel	
Release Computation	The following properties will be used to specify the size and characteristics of your new dynamic cluster.	
Domain Structure FCUBSDomain GTUSSDomain Grussonant Gusters Gu	How many dynamic servers will you need at peak load? Number of Dynamic Servers: Uhat naming convention would you like to use for new dynamic servers in this cluster? Server Name Prefix: FCUBSMS)
Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments Services Services How do I	Server templates are used to configure the characteristics that are common to all dynamic servers in this duster. Se new server template will be created to support this new duster. Back: Next) Finish Cancel	erver templates are unique to a cluster and cannot be shared across clusters, so a

- 5. Specify the Number of Dynamic Servers the user wants to configure.
- 6. Specify the Server Name Prefix and click the Next button.

The Create a New Dynamic Cluster- Machine Bindings screen displays.



Change Center	🏟 Home Log Dut Freferences 🔤 Record Help	9	Welcome, weblogic Connected by: FCUBSDomain
Wew changes and restarts	Hong «Machinal »Screenery of Machines «Machine), «Screener	of Plathmas, effectively -Survey of Servers -Survey of	Pachines «Pachina) -Summary of Servers >Summary of Charlees
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a Nese Dynamic Claster		
Release Configuration	Specify Hachine Bindings Associating dynamic servers with nuclines is essential if	you intend to use Node Manager and the Administration	Canaole (or WLST) to start server instances.
Domein Structure	How do not what to details to the set of the set of the set	kbar?	
FOURS Domain + H Swycement + Servers - B-Clusters	UP any machine configured in this domain		
Server Templates	Use a single machine for all dynamic servers Selected Pauline:	[Machine1 •]	
- Wintus Hests 	Use a subset of machines in this domain Hockine Name Match Expension:		_
Ceployments III Services Security Realize	Back Next Flight Cases		
How do L_ 🛛			

Figure 3-10 Create a New Dynamic Cluster- Machine Bindings

 Select machines that participate in the domain. In this case, all machines will be part of the domain, select Use any machine configured in this domain option and click the Next button.

Create a New Dynamic Cluster- Listen Port Bindings screen displays.

Figure 3-11 Create a New Dynamic Cluster- Listen Port Bindings

ORACLE WebLogic Server A	dministration Console 12c		9
Change Center	🙆 Herse Log Out: Preferences 🗹 Record Help		Welcome, weblagic Connected to: PCUBSDomeil
View changes and restarts	Harne >Machinel >Seriesary of Machines >Machinel >Seriesary of P	lachings stractings -Summary of Servers Sciencery of Machin	ras Mathemat -Summery of Servers -Summary of Chasters
No pending changes exist. Click the Release Configuration button to all much emits edit the domain.	Create a New Dynamic Cluster Beck Next Front Cancel		
Lock & Edit			
Release Configuration	Specify Labern Port Bindings Select how these dynamic servers should be bound to listen po	eta.	
Domain Structure	Listen mate for dynamic servers can be specified in a server terr	estate or our he documentally constrained to be unique.	
PCUBSDomain +		And a much function for summer or as another.	
B-Entroyent	Assign each dynamic server unique listen ports	\square	
Server Templates	Listen Port for Pirst Server:	7002	
Coherence Clusters Nechines	SSL Listen Part for First Server:	7102	
Work Maxagers	Assign each dynamic server fixed listen ports		
Startup and Soutdown Classes Poplayments Sentices	Listen Port:	7100	
Senativ Realms	SSL Listen Port:	8100	
How do 1			
Create dynamic clusters Configure dusters	Back Next Frink Cancel		

8. Select Assign each dynamic server unique listen ports option and specify the Listen Port for First Server and SSL Listen Port for First Server.

The subsequent servers will be assigned with an incremental port number.

9. Click the Next button.

A summary of the new Dynamic Cluster Configuration is displayed in the **Create a New Dynamic Cluster- Review Dynamic Cluster Configuration** screen.



WebLogic Server	Administration Console 120		
Change Center	🙆 Hame Log Cult. Preferences 🔤 Record Help	<u>.</u>	Welcome, weblagic Corrected to: PCUBSDemail
View changes and restarts	Hore +Mathew2 >Screway of Matheway >National >Lammary of Platheway >1	National »Summery of Servers >Summery of Machines >Machines! >Sur	mary of Servers >Summary of Clusters
No pending changes exist. Chick the Release Configuration button to allow others to add the domain.	Create a New Dynamic Cluster Back Next Email Earch		
Release Configuration	Review Your Dynamic Cluster Coeffiguration You have elected to create a new dynamic cluster with the following com	figuration.	
Domain Structure	Configuration details for new desarris cluster		
PCUBSDomein -			
E-Endrooment -Servers	Name of New Dynamic Cluster:	PCUBS Cluster	
H) Clusters Server Templates	Maximum Number of Dynamic Servers:	*	
	Server Nasse Prefix:	FOURSH5	
Hachines Virtual Hosts	Enable Cakulated Listen Ports	true	
Work Managem Startup and Shutdown Classes	Enable Calculated Machine Associations:	true	
E Sentres	Configuration details for new server templates		
3Serurity Realms	Name of New Server Template:	FCuBSMSTemplate	
How do 1	Listen Port:	7002	
Configure desters	551. Listen Port:	7102	
Configure server migration in a duster Configure cross-duster reglication	Back Hent Fresh Gancel		

Figure 3-12 Create a New Dynamic Cluster- Review Dynamic Cluster Configuration

10. Click the **Finish** button to create Dynamic Cluster.

The **Summary of Clusters** screen displays and shows the recently created Dynamic Cluster.

Figure 3-13 Summary of Clusters - Messages

Change Center	1 1 H	and Ling Out P	eferences 🐼 Recor	t Help	a		W	Antone, weblogic Connected to	FORSDan
View changes and restarts Peeding changes exist. They must be activated to take effect.	Hereita O O	e uttachena) silar igen A server templat Cluster created r	mary of Hachman offic e named PCUBDPGTer recessfully.	tional educement of Hachman offic oplate has been created. Use th	cheral - Summery of S	event -Sciencery of Hachines off configure the servers in this d	actional - Scienceary of Ser enters	ver -Samnay of Chatlers	
Undo A8 Changes	Summ	ary of Clusters	00						
Donaia Structure COUSDonaia Distriment - Samer - Same	The A d P Con Cher	t page summariz lutter defines pr stomize this ta sters (filtered new. [Clime]	es the clusters that he rops of WebLogic Serv More Colores Exi Delate	ve been coofigured in the curre er servers that work together to et}	rt WebLogic Server do	oraan, od reviabilita.		Shawing its 1 of 1 Pr	evicus Next
- VITLAN PRODIE	- Internet	1.1.1	Chater Address	Cluster Nessanna Mode	Moratus Base	Default Load Algorithm	Replication Type	Cluster Benadcast Channel	Servers
-Work Managers		PLACENCE UNIT			CONTRACTOR OF	Rectangle and the state	and the second second	Balanta-Aska (Astrobas Sector)	
Virtual Honos Work Hanapers Startup and Distributer Classes	0	Range on	CONTRACTOR AND A	(high and	Patabala	Record Robin	(Dissist)		Carlot and a second
Virtual Pools - Work Hanagers - Startug and Diubbown Clauses - Deployments - Senitors - Senitors		PCUBSCluster	Deteta	Unicent	Database	Pound Robin	(Norre)	Showing 1 to 1 of 1 Pr	evician Next

11. Navigate to **Change Center** and click **Activate Changes** to automatically create 4 managed servers.

Summary of Clusters screen displays and shows the recently created 4 managed servers.

Figure 3-14 Summary of Clusters - Activate Chang
--

Change Center	A Home Log Out 1	raferences 🔛 Kasa	-1 Pela	1.9.7			Welconer, weblogic Con	rented to: FCMISDown
View changes and restarts	Hare >PO/83HSTen	plate charactery of the	er Tangiates (PEDROTETangian	- Summary of Class	fairs (
Tech the Leck S EAD buffue to modify, add ar blate rhong in this domain.	Summary of Oaster	e Des the Clusters that I	use been configured in the cur	rent WebLogic Serve	er damaen.			
onain Structure CMCDonain Charament Serven Chaters	A cluster defines y Contonies this to Clusters (Hitered Clust the Locit A C	rouge of WebLogic Se able - Phore Columns Ex de Button in the Chin	ner seners that work topether out) ge Center to activate all the b	to morease scalabil attors on this page.	ty and reliability.			
	(Beneral (Chang)	(Stepher)					Shewing 1 to 1	of 1. Previous Next
Server Templates	Contractor Vallada				Default Land Absorbas	Realization Tona	Charles Resultant Channel	Second
Server Semplates -Highetable Targets -Culturence Clusters -Machines	Name dis	Chater Address	Chater Hessaging Hode	Phyratics Basis	Contrast Contrast Subjections	and the second second second	Contrast December 211 Constants	
Server Trenglates - Highestable Tangets - Colonexica Clusters - Hactorias - Virtual ments - Virtual ments	Name ris	Chaster Address	Cluster Hessaging Mode	Phyratics Basis		and a second state	Control Control Control	PO RING



12. Navigate to FCUBSDomain left panel, click the Environment drop-down option and then click the Servers.

The **Summary of Servers** screen displays with list of 4 new servers.

Change Center	Rome Log Out Preferences	E Terini Pelp	9.			Welcome, web	Rogik: Connected to: FCDR5Doese
West changes and restarts	Here 170/80757emplate 15um	nary of Server Templates (PDURD)	Clangide clanners of Oa	mes channeng of fee			
Child the Lock & Edit buttor to modify, add or delete items to this domain.	Summary of Servers						
Lock & Ecil	Configuration Control						
Reisana Camigaraton	A server is an instance of the	Gagic Server Wat none in its and	Seve Virtual Mechine (217	t) and has its own cost	guration.		
Donaia Mnucture	This page summarizes each so	over that has been configured in	the current TimbLogic Ser	ver domain.			
PCUEDomain	0						
- Server Templates - Segnitable Targets - Caleenice Clutters - Hacknes - What insids - What insids	Contensare this table Servers (Filtered - Mare C Ord the Look & Edit latter (New) (Date)	okonon Exist) in the Change Center Is activat	e all the battons on this pe	ųr.		See	uing 1 to 5 of 5 Previous Red
- form Templates - registrative Templates - registrative Templates - Collevence Costens - Handharep - Vinual Realigns - Stanty and Statement - Stanty and Statement - Station Realigns - Station Real	P Castemire this table Servers (Mitsred - Mare C Oci the Lock & EdiFlatter Mare Come (Date) Name in	alarmen Exist) in the Change Center to activat Type	e all the hultures are this pe Chester	ije. Plachine	Skale	She	uing 1 to 5 of 5 Previous Net Listen Port
- forver Templates - Hightable Targets - Objector Outliens Hightable Targets - Underson - Storbal Heargen - Torbig and Statione Cleanes - Caploneers - South Dates - South Dates	P Contenter this table Servers (Filtered - Mare C Ocid the Lock & All failure Thine: "Chan: Contin: Thine: "Chan: civ Administrative"(admin)	nhormes Exist) in the Change Center to activat Type Configured	e all the huttors or this pe Obseter	ije. Pachae	State RUMONG	She Headth #* Cit	using 1 to 2 of 5. Previous Next Laten Port 7001
- Server Templates - Hightable Targets - Hightable Targets - Hachines - Hight Resigns - Strates - Services - Services	Contensor this table Servers (Hitsred - Nave C Ohds the Lock & Addition Mane (Nave C Nave (Nave C) Nave (Nave C) Post (Nave C) Post (Nave C) Post (Nave C) Post (Nave C)	okenes Exist) in the Change Center to activat Tage Configured Dynamic	e all the builtons on this pe Chanter PCLBS/Conter	Plachase Plachase Plachase	State RUADING SHITDOWN	She Health of CR Tait reachable	uing 1 to 5 of 5 Presents Next Laten Port 7001 7022
Sover Translates Sove	Contenter the table Servers (fibered - Hune C Clob the Lock & All Table Mane (iv Mane (iv Admit (iv Admit (iv) Admit (iv) Clob) Poster() Poster() Poster() Poster()	okenes Exist) in the Charge Center to activat Tage Configured Dynamic Dynamic	e al the Sutters on this pa Chester PCABSCreater PCABSCreater	Plachase Plachase Plachase1 Plachas2	State PLASING SHITDOWN SHITDOWN	She Health 4 ⁴⁷ CR Itat reachable Itat reachable	ning 3.56.5 d/ 5. Previous 1 No.4 Lates Pyst 2903 2903 2003 2004
	Contenter the table Servers (Fibered - Hure C Club the Jack & Jaff Julius More (Count, Domn) Mane (% demicane(s)) POUR(6) POUR(6) POUR(6) POUR(6) POUR(6)	okeenen Coint) in the Charge Centre Is activat Centigured Dynamic Dynamic	e all the butters on this pa Ounter PCIESCoulter PCIESCoulter PCIESCoulter	Pachase Pachase Pachises Hadros2 Pachises	State RUMONG SHITOUM SHITOUM SHITOUM	the Health of co tot reachable Not reachable Not reachable	usig 1.ts 5 of 5. Pressue] Nect Enfee Port 2003 2005 2005 2005 2005

Figure 3-15 Summary of Servers

3.3 Managed Server Template configuration

This topic provides a list of parameters that modifies managed server template.

The created server template is modified to apply the below parameters:

- Logging This topic provides systematic instructions to update the parameters on the logging screen.
- HTTP Logging
 This topic provides systematic instructions for HTTP Logging.
- Stuck Tread Max Time This topic provides systematic instructions to update stuck thread max time.

3.3.1 Logging

This topic provides systematic instructions to update the parameters on the logging screen.

The process of log file writing in a Weblogic server can impact the performance. Hence, the user needs to keep the logging to a minimum in a production environment.

Update below parameters by in Logging Screen:

Parameter	Description
Minimum Severity to log	Warning
Log file Severity level	Warning
Standard Out Severity level	Critical
Domain broadcaster Severity level	Critical

Table 3-1 Logging Parameters



- 1. Navigate to the **FCUBSDomain** left panel and then click the **Environment** option.
- 2. Click the **Clusters** and then click **Server Templates**.

The Summary of Server Templates screen displays.

Change Center	🔒 Home Log Out Preferences 🔤 Red	cord Help	Q		Welcome, weblogic Co	onnected to: FCUBSDom
View changes and restarts	Home >Machine2 >Summary of Servers >Su Templates	ummary of Machines >Machine2 >Summar	y of Servers >Summary of Clusters	s >Summary of Servers >Summary of	f Server Templates >FCUBSMSTemp	plate >Summary of Server
Pending changes exist. They must be activated to take effect.	Summary of Server Templates					
Activate Changes						
Undo All Changes	This page summarizes each server tem	plate that has been configured in the c	urrent WebLogic Server domain	1.		
	A server template contains common, no	on-default attributes that you can apply	y to a set of server instances, v	hich then inherit the template co	nfiguration. Server templates er	nable you to easily
Domain Structure	manage configuration for a group of se	erver instances in one centralized locati	on.			
FCUBSDomain A						
and a second						
Environment	Customize this table					
= Environment	Customize this table					
Environment Servers Clusters	Customize this table					
Ervironment Servers Clusters Moratable Targets	Customize this table Server Templates New Clone Delete				Showing 1 to	o 1 of 1 Previous Next
Environment Servers Costers Server Templates "Figerable Targets "Coherence Clusters	Customize this table Server Templates New Clone Delete				Showing 1 to	to 1 of 1 Previous Next
← Environment ← Servers ← Clusters ← Magnatable Targets ← Coherence Clusters ← Machines	Customize this table Server Templates New Clone Delete Name Name	Cluster	Machine	Listen Port	Showing 1 to	o 1 of 1 Previous Next
Environment	Customize this table Server Templates New Cone Delete Name Fr(IRGM/Taerelate Fr(IRGM/Taerelate	Cluster	Machine	Listen Port	Showing 1 to	o 1 of 1 Previous Next
⇒ Environment → Servers → Servers → Servers → Server Templates → Migratable Targets → Migratable Targets → Machines → Machines → Work Managers → Work Managers	Customize this table Server Templates New Cione Delete Name FCUBSHSTemplate	Cluster FCUBSCluster	Machine	Listen Port 7002	Showing 1 to Listen Address	o 1 of 1 Previous Next
Environment Servers Clusters Harrer Templates	Customize this table Server Templates New, Clone Delete Rew, Clone Delete Rew, Clone Delete	Cluster FCUBSCluster	Machine	Listen Port 7002	Showing 1 to Listen Address Showing 1 to	o 1 of 1 Previous Next
Environment Inservers Inserver templates Inserver t	Customize this table Server Templates New Come Delete Customic Cus	Cluster FCUBSCluster	Machine	Listen Port 7002	Showing 1 to Listen Address Showing 1 to	o 1 of 1 Previous Next
	Customize this table Server Templates New, Come Delete FCU85/H5Template New, Come Delete	Cluster FCUBSCluster	Machine	Listen Port 7002	Showing 1 to Listen Address Showing 1 to	o 1 of 1 Previous Next o 1 of 1 Previous Next
Environment	Customize this table Server Templates New Cone Delete FCU85H5Template New Cone Delete New Cone Delete	Cluster FCUBSCluster	Machine	Listen Port 7002	Showing 1 to Listen Address Showing 1 to	o 1 of 1 Previous Next

Figure 3-16 Summary of Server Templates

3. Select FCUBSMSTemplate and navigate to Logging tab and then to General.

The Settings for FCUBSMSTemplate screen displays.

Figure 3-17 Settings for FCUBSMSTemplate

Home Log Out Preferences	Record Help	Q	Welcome, weblogic Connected to: FCUBSDoma
Home >#CUIISMSTemplate >Summ	wry of Server Templates >FCUBSMSTer	mplate	
Settings for FCUBSMSTemplat	e		
Configuration Protocols Le	ogging Debug Notes		
General HTTP Data Source	e Diagnostic Images		
Save			
Use this page to define the ger	neral logging settings for this server.		
de Log file name:	logs/FCUBSMSTemplate	log	The name of the file that stores current log messages. Usually it is a computed value based on the name of the parent of this MBean. For example, for a server log, it isSERVER_NUMELog. More Info
Rotation			
- Database have			warments the subscript of the

4. Under Advanced tab, update the below parameters and click the Save button.



🔄 Date Format Pattern:	MMM d. vvvv h:mm:ss a z	The date format pattern used for rendering dates in the log. The
		DateFormatPattern string conforms to the specification of thejava.text.SimpleDateFormat class. More Info
Minimum severity to log:	Warning V	The minimum severity of log messages going to all log destinations. By default all messages are published. More Info
授 Logger severity propertie	*5:	The configuration of the different logger severities keyed by name. The values are one of the predefined Severity strings namely Emergency, Ale Critical, Error, Warning, Notice, Info, Debug, Trace. More Info
og file :		
Severity level:	Warning 🔻	The minimum severity of log messages going to the server log file. By defa all messages go to the log file. More Info
ilter:	None •	The filter configuration for the server log file. More Info
🗄 Log File Buffer:	8	Gets the underlying log buffer size in kilobytes More Info
tandard out :		
ieverity level:	Critical	The minimum severity of log messages going to the standard out. Messag with a lower severity than the specified value will not be published to standard out. More Info
ilter:	None •	The filter configuration for log events being sent to the standard out. $\ensuremath{\rm Mi}$ Info
omain log broadcaster :		
ieverity level:	Critical	The minimum severity of log messages going to the domain log from this server's log broadcaster. Messages with a lower severity than the specifie value will not be published to the domain log. More Info
ilter:	None •	The filter configuration for \log events being sent to the domain \log . Mor $Info$
uffer Size:	10	Broadcasts log messages to the domain log in batch mode. More Info
Stack Traces to stdout		Specifies whether to dump stack traces to the console when included in logged message. More Info
tdout Stack Trace Depth:	5	Determines the no of stacktrace frames to display on standard out. All frames are displayed in the log file. * -1 means all frames are displayed. More Info

Figure 3-18 Settings for FCUBSMSTemplate - Advanced tab

3.3.2 HTTP Logging

This topic provides systematic instructions for HTTP Logging.

- 1. Navigate to the **FCUBSDomain** left panel and click on the **Environment** drop-down option.
- 2. Click the **Clusters** and then click on the **FCUBSTemplate**.

The Settings for FCUBSTemplate screen displays.



	og Out Prefere	nces 🔤 Re	cord Help	Q	Welcome, weblogic Connected to: FCUBSD
Home >FCU	ISHSTemplate >	Summery of S	erver Templa	tes >FCUBSMSTemplate	
ettings for	FCUBSMSTer	nplate			
Configuration	on Protocols	Logging	Debug	Notes	
General	HTTP Data	Source Di	agnostic Imi	ages	
Save					
		an ing rue.			
🗐 НТТР а	ccess log file	enabled			Indicates whether this server logs HTTP requests. (The remaining fields or this page are relevant only if you select this check box.) Hore Info
HTTP a	ccess log file : name:	enabled		logs/access.log	Indicates whether this server logs HTTP requests. (The remaining fields or this page are relevant only if you select this check box.) Hore Info The name of the log file. More Info
E HTTP a	ccess log file e name: n on type:	enabled		logs/access.log By Size V	Indicates whether this server logs HTTP requests. (The remaining fields on this page are relevant only if you select this check box.) More Info The name of the log file. More Info Criteria for moving old log messages to a separate file. More Info

Figure 3-19 Settings for FCUBSMSTemplate

- 3. Click the Logging tab and then click the HTTP tab.
- 4. Uncheck the HTTP access log file enabled option.

3.3.3 Stuck Tread Max Time

This topic provides systematic instructions to update stuck thread max time.

- 1. Navigate to the **FCUBSDomain** left panel and click on the **Environment** drop-down option.
- 2. Click the **Clusters** and then click the **FCUBSTemplate**.
- 3. Click the **Tuning** option.
- 4. Update the stuck thread max time to 18000, and click on the Save button.



4 Tuning

This topic contains the following sub-topics:

- General Parameters This topic provides information on the general parameters for tuning.
- JVM Tuning This topic provides information on JVM optimization for Oracle Universal Banking Solution.

4.1 General Parameters

This topic provides information on the general parameters for tuning.

PARAMETER	VALUE	Navigate To
JTA Time out seconds	18000	 Log in to the Weblogic Server console. Click on the domain name (ex: FCUBSDomain) which is under Domain Structure. Go to Configuration and then JTA, parameter and values are found on the right-side panel of the console
Session Timeout	900	 Log in to the Weblogic Server console. Click on the Deployments which is under Domain Structure. Click on the deployed FCJ application from the right side panel. Click on FCJNeoWeb from Modules and components. Go to Configuration tab and then click on the General, the parameter values can be found here.

Table 4-1 General Parameters

4.2 JVM Tuning

This topic provides information on JVM optimization for Oracle Universal Banking Solution.

The JAVA minimum and maximum heap size need to be reset for 32 and 64-bit environments. Both the minimum and maximum heap sizes are set to 1.5GB and 4GB in the case of 32-bit and 64-bit environments respectively.

How to find whether the JVM is 32bit or 64bit?

Go to **\$JAVA_HOME/bin** directory. Check java version using command **./java –d64 –version** 64 bit JVM shows the version details whereas 32bit throws an error.



How to modify the JVM heap parameters?

To change the JVM heap parameters create a file **setUserOverrides.sh** under domain FCUBSCL in both servers. This file should be created in **\$WL_HOME/user_projects/ domains/\$WLS_DOMAIN/bin** in both the servers. Paste below the contents of the **USER_MEM_ARGS** variable accordingly to override the standard memory arguments passed to java for SUN JDK.

32 bit JDK

```
USER MEM ARGS="-
```

```
Dorg.apache.xml.dtm.DTMManager=org.apache.xml.dtm.ref.DTMManagerDefault -
Dorg.apache.xerces.xni.parser.XMLParserConfiguration=org.apache.xerces.parsers
.XML11Configuration -Dweblogic.threadpool.MinPoolSize=100 -
Dweblogic.threadpool.MaxPoolSize=100 -Xms1536M -Xmx1536M -XX:MaxPermSize=256m
-server -XX:+UseParallelOldGC -XX:ParallelGCThreads=4"
export USER_MEM_ARGS
```

64 bit JDK

```
USER_MEM_ARGS="-
Dorg.apache.xml.dtm.DTMManager=org.apache.xml.dtm.ref.DTMManagerDefault -
Dorg.a
pache.xerces.xni.parser.XMLParserConfiguration=org.apache.xerces.parsers.XML11
Configuration -Dweblogic.threadpool.MinPoolSize=100 -
Dweblogic.threadpool.MaxPoolSize=100 -Xms8g -Xmx8g -Xmn4g -server -
XX:+UseParallelOldGC -XX:ParallelGCThreads=4"
export USER_MEM_ARGS
```

Note:

Take a backup of this files before modifying them same.



5 Start Managed Servers

This topic provides instructions to start Managed servers by using Script and Console.

1. To start Managed Servers using scripts, execute **startManagedWebLogic.sh** script present in the folder **\$DOMAIN_HOME/bin**.

Usage: ./startManagedWebLogic.sh SERVER_NAME {ADMIN_URL}

For Example: ./startManagedWeblogic.sh FCUBSMS1 https://<hostname1>/console

- 2. To start Managed Servers using console, log in to the admin console and navigate to the **FCUBSDomain**.
- 3. Click on the Environment drop-down option and then click on the Servers.

The Summary of Servers screen displays.

Figure 5-1 Summary of Servers

Change Center	1 Hume Log Out Preferences 🐼 Nation Pa	4		Welcone, weblogic Correcte	el le: FCUBSDoess
View changes and restarts	Have HOURINGTemplate - Summary of Server Tel	relate +PCUEDHSTemplate +Summary I	f Clube : - Sameary of Servers		
Click the Lock & Edit button to modify, add or	Summary of Servers				
Lack & Evil	Configuration Control				
Helease Configuration	Use this page to change the state of the serve mode requires the domain-unde administration	rs in this WebLagic Server domain. Co s port.	ntrol operations on Managed Serv	ers require starting the Node Nanager, Starting Nanaged Serve	ers in Standby
	(A)				
COMCORNAME B- Environment Servers B- Clasters Server Templates Server Templates Servers Deuters	C2 © Contornite this table Servers (Filtered - Hore Colorons Exist) Stat. Resume: Suspent v. Shuktion	ew] Restart SSL		Shaving 1 to 5 of 5	Previous Rest.
COSEDumain	C2 © Contornire this table Servers (Fibered - Hore Caluman Exist) Stat: Remark Seapents: Station Server in	ere Restart SSL	State	Sharang 1 to 5 of 5 Status of Last Action	Previous Rest
CottSchumen COLUMNATION COLUMNATICOLUMICA COLUMNATICA COLUMICA COLUMI	C2 © Customire this table Servers (Pillered - Hore Columns Loid) Stati. (Henner, Sospent's, Shuther Server ity MacGener(almer)	na) (Restart Still) Plachine	State Punkting	Showing 1 to 5 of 5 Status of Lost Action Tome	Previous Red
COUSDames COUSDames Courses Co	Q © Contonine this table Servers (Fibered - Hore Colorum Loot) Satt (Remore) Server in Server in Participation Partici	twi (Restat 555, Nachare Hachare	State RUNUNS DH/TDOWN	Shaving 1 to 5 of 5 Skature of Last Action None None	Previous Rest
CluttSummer Clutter Cl	C2	s V Restat 551. Nachine Hachine Hachine	State PUNKING SHUTDOWN SHUTDOWN	Shaving 1 to 1 of 5 Skatus of Last Action None None None	Previous Rest
CluffSumme CluffSumme CluffSumme CluffSum CluffS	C2 Catomire this table Servers (Fibered - Hore Columns Exist) Sate Resone Subprist / Solution Server // Advacementation Advac	evi (Restat 55), Machine Hachine Hachine Hachine	State RUPUING SHUTDOWN SHUTDOWN	Showing 1 to 5 of 5 Status of Last Action None Rose Rose Tome	Previous Rest

4. Click on the **Control** tab, select the managed servers to be started and then click on the **Start** button.

Upon successful startup, the status of Managed servers is changed to RUNNING.



Data Source Creation and JDBC Configuration

This topic provides information on data sources used by the FLEXCUBE application.

Following are the JNDI names of those data sources used by the FLEXCUBE application.

jdbc/fcjdevDS - This data source is used by FLEXCUBE online screen excluding branch screens.

- jdbc/fcjdevDSBranch This data source is used by Branch screens.
- jdbc/fcjSchedulerDS This data source is used by Quartz scheduler.

Note:

- jdbc/fcjdevDS should be NonXA.
- jdbc/fcjdevDSBranch and jdbc/fcjSchedulerDS should be XA

This topic contains the following sub-topics:

- Create Data Source for Non XA This topic provides systematic instructions for Data source creation for non XA.
- Create Data Source for XA
 This topic provides systematic instructions to create data source for XA.
- JDBC Parameters Tuning This topic provides information on JDBC Parameters that need to be updated for all the Data sources.

6.1 Create Data Source for Non XA

This topic provides systematic instructions for Data source creation for non XA.

- 1. Navigate to FCUBSDomain left panel.
- 2. Click on the Services drop-down option and then click on the Data Sources.

The Summary of JDBC Data Sources screen displays.



Change Center	Home Log On	t Preferences 🐼 Record Help		k	Welcome, weblogic Connected to: FCUBSDoma
Wew changes and restarts	Horw >PCUESMS1	Template >Summary of Server Templates	>FCUBSHSTemplate >Summ	nary of Cluders >Sunmary of Servers >Summary	of 3DBC Data Sources
No pending changes exist. Click the Release	Summary of JDB	C Data Sources			
Configuration battan to allow others to edit the domain.	Configuration	Honitoring			
Domain Structure	This page summ i Customize the Data Sources	vrizes the JDBC data source objects s table (Filtered - More Columns Exist)	that have been created in t	this domain.	
	New w Date				Showing 0 to 0 of 0 Previous Next
B-Messaging		iource	Time	INDI Name	Taraets
B-Messaging Data Sources Persistent Stores	Generic Data	Source	ame		
Persaging Data Sources Persistent Stores Foreign JNCI Providers minus Contracts	Generic Data : GridUnk Data Sea	lource	allhe	There are no items to display	

Figure 6-1 Summary of JDBC Data Sources

3. Click the New drop-down button and select Generic Data Source option.

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

Figure 6-2 Create a New JDBC Data Source- JDBC Data Source Properties

ORACLE WebLogic Server	dministration Console 12c		Q
Glange Center	🙆 Harre Lug Dut Preferences 🖾 Record Help	Q.	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Horse >FCU0SHSTemplate >Summary of Server Templates >FOU8SHSTemp	iala -Summary of Clusters -Summary of Serveys -Se	mmary of JDBC Data Sources
The preding changes exist. Click the Release Configuration button to allow others to edit the Sonars. Dock & Edit Release Configuration Docensis Structure CUESDorean	Create a New JOBC Data Source Illiniti Meet Illinitii Cancel JOBC Data Source Properties The following properties will be used to identify your new JOBC data * Indicates required fields	source.	
Environment Forward Server Tamplates Server Tamplates Monoton Clusters Vorbeance Clusters Vorbalitangies Sartay and Shotom Clusters Daplayments Environ Rindexame	What would you like to nome your new XORC data source?	107	
How do 1_	1		
Create 300C generic data sources Create U.R-enabled 300C data sources	What database type would you like to select? Database Type: Cracle	•	
System Status B Health of Running Servers	Tare Tare		
Ended (M)			

4. Specify the Name and JNDI Name fields and click the Next button.

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

Figure 6-3 Create a New JDBC Data Source- JDBC Data Source Properties

ORACLE WebLogic Server	dministration Console 12c	U.
Change Center	🙆 Home Log Dut Preferences 🚈 Record Help	Welcome, weblogic Connected to: FCUBSDomain
New changes and restarts	Home >PCU8SHSTamplate :Summary of Server Tamplates >PCU8SHSTamplate >Summary of Clusters >Summary of Serve	es -Seretury of 208C Data Searces
No pending dianges exist. Click the Release Configuration batton to allow others to edit the domain.	Create a New JOBC Data Source Back: Inest Provid	
Lack & Edit	rement menter laterative landsteen	
Release Configuration	JDBC Data Source Properties The following properties will be used to identify your new JDBC data source.	
Domain Structure		
PCUESSenain	Detabase Type: Drade What database driver woold you like to use to create database connections? Note: * indicates that the driver is Detabase Driver: Toracle's Driver (Thin) for instance connections, Versions:Any Back Times Primity Cancel	equilatity supported by Oracle WebLugic Server.
Startup and Shutdows Classes	Democratic and the second seco	•
Deployments D-Services		
D. Marradan	8	



5. Select the Database Driver as Oracle's Driver (Thin) for Instance connections: Versions: Any and click the Next button.

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

Figure 6-4 Create a New JDBC Data Source- Transaction Options

ORACLE WebLogic Server Ad	ministration Console 12c 🔤				
Change Center	🟦 Home Log Out Preferences 🖾 Record Help				
View changes and restarts	Home >FCUBSMSTemplate >Summary of Server Templates >FCUBSMSTemplate >Summary of Clusters >Summary of Servers >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 Itext Finish Cancel Transaction Options You have selected non-XA JDBC driver to create database connection in your new data source.				
Domain Structure	Does this data source support clobal transactions? If yes, please choose the transaction protocol for this data source.				
FCUBSDomain	Supports Global Transactions				
ClustersServer TemplatesMigratable TargetsCoherence ClustersMachinesMachines	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. Recommended in place of Emulate Two-Phase Commit.				
	Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.				
⇒ Services					
Messaning V	Select this option if you want to enable non-X4 JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no				
How do I	other resources can participate in the grobal transaction.				
Create JDBC generic data sources Create LLR-enabled JDBC data sources	One-Phase Commit Back, Itext, IFminh Cancel				
System Status					

6. Uncheck the **Supports Global Transactions** option and click the **Next** button.

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

Figure 6-5	Create a New JDBC Data Source- Connection Properties
------------	--

ORACLE WebLogic server	dministration Conselle 12c				
Change Center	😰 Hore Log Out. Prefarences. 🚈 Record Help	9	Welcome, weblogic Connected to: FCUBSDonia		
View changes and restarts	Harw >PCURSHSTamplata >Summary of Server Templates =PCURSH	Etherplate a Surressary of Clusters a Surrenary of Surrenar-S	lansary of 2080, Duba Sources		
No pending changes exist, Click the Release	Create a New 3DBC Data Source				
the domain.	Baon Prest Friend Carcel				
Lock & Edil	animum manufi access languages				
Release Configuration	Connection Properties	Connection Properties			
Donale Structure	Define Connection Properties.				
PCUESDanain -	What is the name of the database you would like to connect to?	S			
P Environment	Database Name:				
E-Clusters			7-1-		
Server Templates	What is the name or IP address of the database server?				
	Host Name:	17	1		
Pladvines	and a second sec	ante and a second s	**		
	What is the port on the database server used to correct to the	detabase7			
-Shartup and Shubdown Clauses	Port:	1521	7		
Deployments	10.61	1.007.0			
B Hestation +	What database account user name do you want to use to create	database connections?			
How do I	Database User Name:				
Create JDBC generic data saurces	What is the database account password to use to create databa	se comedians?			
Create UR-enabled JDBC data sources					
Sastem Status 3	Password	10	4		
Health of Running Servers	Confirm Password:	C C			
Failed (0)	Additional Competition Despartiant	C			
Critical (00)	Automa Canacitor Propingat.				
Overlanded (2)	oracle.jdbc.DRCPConnectionClass:				
04(5)	record taxing freemer fractions				
	J (Bain (Ment) (Ment) (Cancel)				

7. Specify the Database Name, Host Name, Port, Database User Name, Password, and Confirm Password fields and then click on the Next button.

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



Change Center	🙆 Home Log Out Preferences 🔤 Record He	A de	Welcome, weblogic Connected to: FOUBSDomain
View changes and restarts	Home >FCURSHSTemplate >Summary of Server Tem	nplatec >PCURSPISTemplate >Summary of Clusterc >Summary of Serverc >Sum	many of 3DBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the densite	Create a New JDBC Data Source		
Lock & Edg	Test Configuration Back Next Plainh	Cancel	
Release Configuration	Test Database Connection Test the database availability and the connection	on properties you provided.	
Domain Structure	What is the full exchange parts of WWT departule	are used to create detailors connections to the connection could	
FOURSDomain · · · · · · · · · · · · · · · · · · ·	(Note that this driver class must be in the classp	with of any server to which it is deployed.)	
B-Clasters Server Templates 	Driver Class Name:	oracle.jdbc.OracleDriver	
Coherence Clusters Plachines	What is the URL of the database to connect to? T	The format of the URL varies by JOBC driver.	
Wirtual Hosts Work Managers	URL:	idb: oracle.ocl @(DESCRIP'	
Startup and Shutdown Classes Deployments	What database account user name do you want t	ts use to cleate database connections?	
E-Services	Database User Name:	FCUBS121DB	
How do L. 🗉	What is the database account password to use to	n create da <mark>t</mark> abase connections?	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	(Note: for secure password management, enter t	the passward in the Password field instead of the Propertie field below)	6
System Status 🖂	Password:		
Health of Running Servers	Confirm Password:		
Patied (0) Critical (0) Overloaded (0) Warring (0) Ok (5)	What are the properties to pass to the 3DBC driv respectives user=F0.08512105E8	ver untern mending distationer connectioner/	

Figure 6-6 Create a New JDBC Data Source- Test Database Connection

8. Replace the JDBC URL field in the below format and click the Next button.

Default URL: jdbc:oracle:thin:@<IP_Adress>:<Port>:<INSTANCE_NAME>.

```
Change the default URL to:
jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)
(HOST=xxxxx.com)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=fcubs))
```

Where,

- Scan IP = xxxxxx.com
- Service Name = fcubs
- **Port** = 1521

The user should make the necessary changes to the URL.

9. Click Test Configuration.

The connection test should be successful.

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

Figure 6-7 Create a New JDBC Data Source- Targets

ORACLE WebLogic Server	dministration Console 12c		Q
Change Center	Reine tag Out Preferences Record Help	Reality of Chatters -Summery of Service	Welcome, weblogic Connected to FOUBSDomail
No pending changes and restance Configuration button to allow others to edit the domain.	Create a New JOBC Data Source		
Release Configuration Dosnals Structure	Select Targets You can select one or more targets to deploy your new JDBC data of later time.	surce. If you don't select a target, the data o	course will be created but not deployed. You will need to deploy the data course at a
PCI95Denain · · · · · · · · · · · · · · · · · · ·	Servers		
- Server Lemplates - Magnatible Targets - Cabenerice Clusters - MacNines - Work Heats Work Managers	Chasters FOBSCluster Mill servers in the cluster		
Startup and Stubborn Classes Deplayments B: Sentee H: Resenter:	Back, Hent Fank, Cancel		



10. Select Target as FCUBSCluster and click the Finish button.

6.2 Create Data Source for XA

This topic provides systematic instructions to create data source for XA.

- 1. Navigate to FCUBSDomain left panel.
- 2. Click the Services drop-down option and then click the Data Sources.

The Summary of JDBC Data Sources screen displays.

Figure 6-8 Summary of JDBC Data Sources

ORACLE WebLogic Server A	dministration Console	120			¥
Change Center	Home Log Ou	t Preferences 🖾 Record Help	Q		Welcome, weblogic Connected to: FCUBSDonial
Wew changes and restarts	Home >POURSMS1	emplate >Summary of Server Templati	es >RCUBSHSTemplate >Summar	of Cluders >Summary of Servers >Summar	y of 3DBC Data Sources
No pending changes exist. Click the Release	Summary of JDB	Data Sources			
Configuration button to allow others to edit the domain.	Configuration	Honitoring			
Demain Structure	borrow a databa This page summ ip Customize this Data Sources (se connection from a data source, orizes the JDBC data source object s table Filtered - More Columns Exist)	is that have been created in thi	domain.	
B-Henneging	New y Date	8			Showing 0 to 0 of 0 Previous Next
Persistent Stores	Generic Data 5	ource .	Туре	JNDI Name	Targets
Foreign JNOI Providers	Hubi Data Saura There are no Berna to display				
XML Registries XML Britity Caches 	THEN WITCH				Shawing 0 to 0 of 0 Previous Next

3. Click the New drop down button and select Generic Data Source option.

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

Figure 6-9 Create a New JDBC Data Source- JDBC Data Source Properties

Maprodic selver Ht	andonama Antonia 150		-
Change Center	Home: Lag Out: Preferences Led Record: Help	<u>A</u>	Welcome, weblogic Corrected to: FOUBSDomail
View changes and restarts	Home >FCU85HSTemplate >Summary of Server Templatee >FCU85HSTem	splate »Summery of Clusters >Summery of Servers >Summer	tary of JDBC Duta Soarces
Pending changes exist. They must be activated to take effect.	Greate a New JDBC Data Source		
Activate Changes	Eace Next First Carcel		
Undo All Changes	30BC Data Source Properties		
Domain Structure FCUBSOmain FCUBSOmain Frankin Grown Grown	The following progenties will be used to identify year new JDBC date * Indicates required finds What would you like to name year new JDBC data scarse? digit * Name: FCUBSBRanchDS What JNCK name would yea like to assign to year new JDBC Data Soc (j) INDK Name: jdBc / fcjdev05Branch)	a Source.	
How do 1			
Create IDBC generic data sources Create ILR-enabled IDBC data sources	What database type would you like to select? Database Type: Oracle		
System Status 🛛			
Health of Ranning Servers	Ban Red Print Gates		
Failed (0)			

4. Specify the Name and JNDI Name fields and click the Next button.

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



Change Center	🔞 Home Lag Out: Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomail
Wew changes and restarts	Hone >FCL8SHSTemplate >Summery of Server Templates >FCU8SHSTemplate >Summery of Outlets >Summery of S	Servers >Summary of JDBC Data Sources
Funding changes exist. They must be activated to take effect.	Greate a New JDBC Data Source	
Activalia Changes	Back Hent Print Carcal	
Unde All Changes	308C Data Source Properties	
Domain Structure	The following properties will be used to identify your new JDBC data source.	
PC/EEDenses	Database Type: Cracie What database finier weakly you like to use to use to use to database connections? Index * indicates that the database bases between: "Obacle's Dirker (Thin XA) for instance connections; Versions Any Back, Dent, Them?" Back, Dent, Them? Carcet	er is explicitly supported by Orade WebLogic Server,

Figure 6-10 Create a New JDBC Data Source- JDBC Data Source Properties

5. Select the Database Driver as Oracle's Driver (Thin XA) for Instance connections: Versions: Any and click the Next button.

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

Figure 6-11 Create a New JDBC Data Source- Transaction Options

Channe Cardan	Bover Loo Out Preferences Report Hela	Welcome, weblanic Connected to: FCUBSDamai
View changes and restarts	Home >POUBSHSTeinglide >Servinary of Server Templidee >POUBSHSTeinglide >Servinary of Clusters >Summery	of Servers - Seminary of JDBC Data Sources
Pending changes exist. They must be activated to take effect.	Create a New JDBC Data Source	
Activate Changes	Back Next Prinh Cancel	
Undo All Changes	Transaction Options	
Domain Structure	You have selected an IX-JDBC driver to use to create database consection in your new data source. The transaction protocol. No other transaction configuration options are available.	e data source will support global transactions and use the 'Two-Phase Commit' global
PCUEDorain A	Back Rect Prink Cancel	

6. Click the **Next** button.

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

Change Center	(1) Home Log Out Preferences and Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >FCUBSHISTemplate >Summary of Server Templates >FCUBSHISTem	plate >Summary of Clusters >Summary of Servers	Summary of JDBC Data Sources
Pending changes exist. They must be activated to take effect.	Create a New JDBC Data Source		
Activate Changes	Back Next Finish Cancel		
Undo All Changes	Connection Properties		
Domain Structure	Define Connection Properties.		
CUBSDomain *	What is the name of the database you would like to connect to?		
Servers E-Clusters	Database Name:		
Server Templates Migratable Targets	What is the name or 3P address of the database server?		
-Nachines	Host Name:		
	What is the port on the database server used to connect to the datab	ase?	
Deployments El Services	Port:	1621	
B-Nessacion *	What database account user name do you want to use to create data	base consections?	
How do I 🗟	Database User Name:		
Create LLR-enabled JDBC data sources	What is the database account password to use to create database co	enections?	
System Status 🛛	Password:		
Health of Running Servers	Confirm Password:	(
Failed (0) Critical (0)	Additional Connection Properties:		
Overleaded (0) Warning (0)	oracle.jdloc.DRCPConnectionClass:		



7. Specify the Database Name, Host Name, Port, Database User Name, Password, and Confirm Password fields and then click the Next button.

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

Change Contar	1 1 Have Log Out Preferences In Record Hela	9	Welcome, weblogic Connected to FCUESDomain
Change Center	Home up/10/04/Charactere up of General Terrelation	A BORTanaka stronger of Caster Sciences of Caster Sciences	an of 2010 Data Second
View changes and restarts			and a state a state state
Pending dranges exist. They must be activated to take effect.	Create a New JDBC Data Source		
Activate Changes	Test Configuration Back Next Pinish Car	cel	
Unde All Changes	Test Database Connection		
Domain Structure	Test the database availability and the connection prop	erties you provided.	
PCUBSDemain -	What is the full package name of 3DBC driver class uses	to create database connections in the connection pool?	
B Entroppert	Otatis that this shreer class must be in the classpath of	er sarver to which it is degizyed.)	
Server Templates Higratable Targets	Driver Class Name:	oracle.jdbc.xa.client.OracleX	
	What is the URL of the database to connect to? The for	nat of the URL varies by 208C driver.	
Virbual Hasts	100	A second s	
-Work Hanagers	- units	Rept. analogi and BIDE SCRIP	
Deployments	What database account user name do you want to use t	a create database connections?	
B-Services	-		
20-Mensooine	Database User Name:	FC121DB	
How do I			
Greate 3080 generic data sources	What is the database account password to use to creat	e database connections?	,
Create LUK-enable# 108C data sources	(Natzi for secure pocosof suragement, exter the pas	wand in the Pasyward held instead of the Properties (field below)	
System Status E	Password:		
Health of Running Servers			
Teled (0)	Contirm Paenword:		
Critical (0)	What will be an		
Diverloaded (0)	what are the properties to pass to the Judi, priver whe	creating databate connections?	
Warning (0)	Propertiesi		
DK(5)	user=FC0BS1210ser		

Figure 6-13 Create a New JDBC Data Source- Test Database Connection

8. Replace the JDBC URL field in the below format and click the Next button.

Default URL: jdbc:oracle:thin:@<IP_Adress>:<Port>:<INSTANCE_NAME>.

Change the default URL to:

```
jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)
(HOST=xxxxx.com)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=fcubs))
```

Where,

- Scan IP = xxxxxx.com
- Service Name = fcubs
- Port = 1521

The user should make the necessary changes to the URL.

9. Click the Test Configuration.

The connection test should be successful.

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



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Figure 6-14 Create a New JDBC Data Source- Targets

10. Select Target as FCUBSCluster and click the Finish button.

The newly created XA Data source is displayed in the **Summary of JDBC Data Sources** screen.

Figure 6-15 Summary of JDBC Data Sources

ORACLE WebLogic Server A	trainistration Consoli	e 12c			U U				
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	FOURSDS		Generic	3dbc/fcjón/05	FCUBSCluster				
How do L	Inn v Date	dia			Showing 1 to 2 of 2 Previous Next				

11. Navigate to the Change Center left panel and click the Activate Changes.

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



Change Center	🔒 Home Lag Out. Preferences 🔤 Record H	elp Q		Welcome, weblogic Connected to: FCUBSDomain						
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Figure 6-16 Summary of JDBC Data Sources - Activate Changes

12. Similarly, create all the other Data Sources required for the FCUBS Application and Gateway Deployments.

6.3 JDBC Parameters Tuning

This topic provides information on JDBC Parameters that need to be updated for all the Data sources.

PARAMETER	VALUE	Navigate To
Connection Reserve time out	30	Connection Pool and then click Advance
Test Frequency	60	Connection Pool and then click Advance
Inactive connection time out	30	Connection Pool and then click Advance
Initial Capacity	1	Connection Pool
Max capacity	Based on Site Requirement	Connection Pool
Capacity Increment	5	Connection Pool
Shrink Frequency	900	Connection Pool and then click Advance
Test Connection on Reserve	Checked	Connection Pool and then click Advance
Statement Cache Size	50	Connection Pool

Table 6-1 JDBC Parameters

7 JMS Resource Creation

JMS Resource Creation involves various steps:

- Persistence Store Creation
- JMS Server Creation
- JMS Module Creation
- Resource Creation: Connection Factory and Queue's

Refer to the Configure JMS on Weblogic Server guide for further details on JMS setup.



8 Oracle WebLogic Load Balancing

For WebLogic load balancing, use

- **Oracle HTTP Server**: Refer to *Configuration of Oracle HTTP Server* guide for setup.
- Apache: Refer to Configuration for Apache guide for setup.



9 Frequently Asked Questions

This topic contains the following sub-topics:

- Machine status is Unreachable This topic provides systematic instructions to change the machine's status.
- Restart Node Manager This topic provides systematic instructions to restart the node manager.
- Scale Up Dynamic Cluster This topic provides systematic instructions to scale up dynamic cluster capacity.
- Session Timeout This topic describes steps to verify session timeout conditions.

9.1 Machine status is Unreachable

This topic provides systematic instructions to change the machine's status.

If the machine's status shows Unreachable, the machine is not reachable and the user cannot start/stop the managed servers from the console.

- 1. In the console, navigate to **Domain structure** left panel.
- 2. Click on the Machines and then click on Machine1.

The Settings for Machine1 screen displays.

3. Click on the **Monitoring** tab and then click on the **Node Manager Status**.

The Status displays Unreachable in the Settings for Machine1 screen.

4. To change the status, start the **Node Manager** on that server.

Refer to the Start Node Manager topic on steps to start the Node Manager.

9.2 Restart Node Manager

This topic provides systematic instructions to restart the node manager.

- 1. Locate node manager PID using ps -ef|grep weblogic.nodemanager.javaHome.
- 2. Change directory to **\$DOMAIN_HOME/bin**.
- 3. Kill the Unix process using kill -9 <pid>.
- 4. Verify that the node manager is killed by tail -f nohup.out.
- 5. Start node manager using **nohup**./startNodeManager.sh.
- 6. Verify that node manager is started using tail -f nohup.out.

9.3 Scale Up Dynamic Cluster

This topic provides systematic instructions to scale up dynamic cluster capacity.

To scale up the sufficient capacity of the dynamic cluster, the user can add dynamic servers on demand.

- 1. Navigate to the FCUBSDomain left panel.
- 2. Click the Environment drop down option and then click Clusters.

The Summary of Clusters screen displays.

3. Click the FCUBSCluster.

The Settings for FCUBSCluster screen displays.

Figure 9-1 Settings for FCUBSCluster

Change Center	Home Log C	ut Preference:	s 🔤 Recor	d Help		Q				Welc	ome, weblogic	Connected to: FCUBSDom
view changes and restarts	Home >Summary Clusters >FCUBS	of JDBC Data So Cluster	ources >Sum	mary of Clusters >	Summary of I	lachines >MAC-1 >Sumr	nary of Machines	s >Summary o	of Servers >Summary of	Server Te	mplates >Summar	of Machines >Summary of
o pending changes exist. Click the Release onfiguration button to allow others to edit	Settings for FCUBSCluster											
l ock & Edit	Configuration	Monitoring	Control	Deployments	Services	Notes						
Release Configuration	General JTA	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling	Overload	Health Monitoring	HTTP	Coherence	
main Structure	Save											
Environment Servers Clusters	This page is us Clusters can c	sed to configure ontain both exp	e the servers lictly config	that are assign ured and dynam	ed to this clu ically created	ister. I servers. The following	g settings are u	used to deter	mine the number and	characte	ristics for these	lynamic servers.
Server Templates Migratable Targets Coherence Clusters Machines	Server Template:				FCUBSMSTemplate •			Si si cl	Specifies the server template that is to be used to configure the dynamic servers in this cluster. Only templates that specify this cluster are valid choices. More Info			
Virtual Hosts Work Managers Startup and Shutdown Classes	Maximum Number of Dynamic Servers:			: 4	4		S Ir	Specifies the maximum number of dynamic servers in this cluster Info		rs in this cluster. More		
-Deployments -Services	👸 Server Na	FCU	FCUBSMS		S	Specifies the prefix to be used when naming new dynamic servers in th cluster. More Info		dynamic servers in this				

- 4. Click the **Configuration** tab and then click the **Servers** tab.
- 5. Change the Maximum Number of Dynamic Servers to 8 and then click the Save button.
- 6. Navigate to the Change Center left panel and click the Activate changes.

After activation, 4 new Dynamic Servers are added to the Dynamic Cluster.

Figure 9-2 Summary of Dynamic Clusters

Name 💫	Туре	Machine	Listen Port
FCUBSM51	Dynamic	MAC-1	7101
FCUBSMS2	Dynamic	MAC-2	7102
FCUBSMS3	Dynamic	MAC-1	7103
FCUBSMS4	Dynamic	MAC-2	7104
FCUBSMS5	Dynamic	MAC-1	7105
FCUBSMS6	Dynamic	MAC-2	7106
FCUBSMS7	Dynamic	MAC-1	7107
FCUBSMS8	Dynamic	MAC-2	7108

7. Start the 4 new Dynamic Servers and it doubles the capacity of the dynamic cluster.

9.4 Session Timeout

This topic describes steps to verify session timeout conditions.

Session timeouts occur intermittently during load condition.



Verify the following:

- 1. Clock Synchronization: Time across the nodes/machines is the same.
- 2. Session Stickiness in the load balancer: Persistence Type in load balancer should be set to SOURCE IP and should not be the cookie.