Retail Operations Installation Guide
Oracle FLEXCUBE Universal Banking
Release 14.4.0.0.0

Part No. F20443-01
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ORACLE
FINANCIAL SERVICES

Table of Contents

1. Preface

1.1 Introduction

This guide helps you to install the Retail Operations services, User Interface, and Conductor Process flow on designated environments. It is assumed that all the prior setup is already done related with WebLogic 12c installation, WebLogic managed server creation and Oracle DB installation.
It is recommended to use dedicated managed server for each of the Plato infrastructure services, Retail Operation Services and Retail Operations User Interface.

1.2 Audience

This document is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html

1.4 Organization

This installation user guide would allow you to install the below mentioned Retail Operation services, UI, process flow in same order

Retail Operations Services

1. stage-services
2. obpy-party-services
3. party-kyc-services
4. obpy-businessprocess-services
5. obpy-party-handoff-services
6. obpy-party-publisher-services
7. obpy-party-maintenance-service
8. obpy-party-adapter-services
9. obremo-srv-bcn-branchcommon-services
10. obremo-srv-adp-adapter-services
11. obremo-srv-cas-cash-services
12. obremo-srv-cmn-ml-processing
13. obremo-srv-cmn-transaction-services
14. obremo-srv-cus-customer-services
15. obremo-srv-pay-payment-services
16. obremo-srv-prj-projection-services
17. obremo-srv-tds-term-deposit-services
18. cmc-fc-ai-ml-services
19. obremo-rpm-maintenance-services
20. obremo-rpm-process-driver-services
21. obremo-rpm-businessprocess-services
22. obremo-rpm-businessproductdetails-services
23. obremo-rpm-cmn-applicantservices

24. obremo-rpm-cmn-hostservices
25. obremo-rpm-cmn-scorecardservices
26. obremo-rpm-lo-loanapplications
27. obremo-rpm-sav-account-service

User Interface

28. obremo-app-shell-14.4.0.0.0

Process Workflow.

29. OBPY-PARTY-ONBOARDING-PROCESSFLOW
30. CURRENTACCOUNT
31. EDUCATIONLOAN
32. HOMELOAN
33. INITIATION
34. PERSONALLOAN
35. SAVINGSACCOUNT
    VEHICLELOAN

1.5 Related documents

For more information, refer to the following documents:

- Getting Started
- Retail Operations Pre installation Guide
- ANNEXURE-1

2. Database Setup

2.1 Introduction

In this section you are going to setup database related configuration for Retail Operations Installation. It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

2.2 Pre-requisite

In this section, you are going to setup database related configuration for Retail Operations Installation. Before you proceed, ensure pre-installation setup is done. The pre-installation setup includes the configuration of database, setting up the setUserOverrides.sh. After creating the schema for each of the required micro services, DDLs and INCs of each micro-service to be compiled in the respective schemas. The DDLs and INCs ensure the creation of tables and availability of static data required for the execution of services. These are compiled automatically using flyway.

2.3 Database Setup

To setup DB for Retail Operations schema's to be created-

Service Name	Schema Required
stage-services	Yes (obpy-party-service schema)
obpy-party-services	Yes
party-kyc-services	Yes (obpy-party-service schema)
obpy-businessprocess-services	Yes
obpy-party-handoff-services	Yes (obpy-party-service schema)
obpy-party-publisher-services	Yes (obpy-party-service schema)
obpy-party-maintenance-service	Yes (obpy-party-service schema)
obpy-party-adapter-services	Yes (obpy-party-service schema)
obremo-srv-bcn-branchcommon-services	Yes
obremo-srv-adp-adapter-services	Yes
obremo-srv-cas-cash-services	Yes
obremo-srv-cmn-ml-processing	No
obremo-srv-cmn-transaction-services	Yes
obremo-srv-cus-customer-services	Yes

Service Name	Schema Required
obremo-srv-pay-payment-services	Yes
obremo-srv-prj-projection-services	Yes
obremo-srv-tds-term-deposit-services	Yes
cmc-fc-ai-ml-services	Yes
obremo-rpm-maintenance-services	Yes (obremo-rpm-maintenance-services schema)
obremo-rpm-process-driver-services	Yes (obremo-rpm-process-driver-services schema)
obremo-rpm-businessprocess-services	Yes (obremo-rpm-businessprocess-services schema)
obremo-rpm-businessproductdetails-services	Yes (obremo-rpm-businessproductdetails-services schema)
obremo-rpm-cmn-applicantservices	Yes (obremo-rpm-cmn-applicantservices schema)
obremo-rpm-cmn-hostservices	Yes (obremo-rpm-cmn-hostservices schema)
obremo-rpm-cmn-scorecardservices	Yes (obremo-rpm-cmn-scorecardservices schema)
obremo-rpm-lo-loanapplications	Yes (obremo-rpm-lo-loanapplications schema)
obremo-rpm-sav-account-service	Yes (obremo-rpm-sav-account-service schema)

3. Retail Operations Services Domains Configuration

3.1 Prerequisites

1. Machine should have Java JDK1.8.0_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4.0 has to be installed on the machine.

   Note the following:

   Before proceeding with below steps complete Plato installation guided.
3. Steps for creating all OBREMO domains, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

3.2 Retail Operation Service Domain Creation

It is recommended to have separate domain for Retail Operation application. For Creating Domain and Configuration, refer to **How to create and Cluster Configuration** section in ANNEXURE-1.

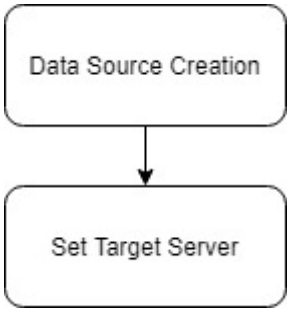
Service Name	Domain Name
stage-services	Retail Operations Domain
obpy-party-services	Retail Operations Domain
party-kyc-services	Retail Operations Domain
obpy-businessprocess-services	Retail Operations Domain
obpy-party-handoff-services	Retail Operations Domain
obpy-party-publisher-services	Retail Operations Domain
obpy-party-maintenance-service	Retail Operations Domain
obpy-party-adapter-services	Retail Operations Domain
obremo-srv-bcn-branchcommon-services	Retail Operations Domain
obremo-srv-cas-cash-services	Retail Operations Domain
obremo-srv-cmn-transaction-services	Retail Operations Domain
obremo-srv-pay-payment-services	Retail Operations Domain
cmc-fc-ai-ml-services	Retail Operations Domain
obremo-srv-tds-term-deposit-services	Retail Operations Domain
obremo-srv-adp-adapter-services	Retail Operations Domain
obremo-srv-cmn-ml-processing	Retail Operations Domain
obremo-srv-cus-customer-services	Retail Operations Domain
obremo-srv-prj-projection-services	Retail Operations Domain
obremo-rpm-maintenance-services	Retail Operations Domain
obremo-rpm-process-driver-services	Retail Operations Domain
obremo-rpm-businessprocess-services	Retail Operations Domain
obremo-rpm-businessproductdetails-services	Retail Operations Domain

Service Name	Domain Name
obremo-rpm-cmn-applicantservices	Retail Operations Domain
obremo-rpm-cmn-hostservices	Retail Operations Domain
obremo-rpm-cmn-scorecardservices	Retail Operations Domain
obremo-rpm-lo-loanapplications	Retail Operations Domain
obremo-rpm-sav-account-service	Retail Operations Domain

4. Data Sources Creation

4.1 Pre-requisite

Database setup for Retail operations has to be performed prior to deployment setup. The data sources for the respective micro-services must be created first before the application deployment. Each of the data source target to their corresponding servers on which the application will be deployed. The following sections explain the list of data sources required to be created for Retail Operations services and the steps to configure them in the server.



4.2 Data sources List

The table below lists the data sources to be created on each domain prior to deployment of applications onto managed servers.

Service Name	Data source Name	Data source JNDI	Targets
stage-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-services	PARTY	jdbc/PARTY	Party Managed Server
party-kyc-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-businessprocess-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-handoff-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-publisher-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-maintenance-service	PARTY	jdbc/ PARTY	Party Managed Server
obpy-party-adapter-services	PARTY	jdbc/PARTY	Party Managed Server

obremo-srv-bcn-branchcommon-services	BRANCHCOMMON	jdbc/SRVBRANCHCOMMON	Servicing Managed Server
obremo-srv-cas-cash-services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-srv-cmn-transaction-services	TRANSACTION	jdbc/SRVCMNTXN	Servicing Managed Server
obremo-srv-pay-payment-services	PAYMENT	jdbc/SRVPAYMENT	Servicing Managed Server
cmc-fc-ai-ml-services	CMNCORE	jdbc/CMNCORE	Common Core Server
obremo-srv-tds-term-deposit-services	TERMDEPOSIT	jdbc/SRVTERMDEPOSIT	Servicing Managed Server
obremo-srv-adp-adapter-services	ADAPTER	jdbc/SRVADAPTER	Servicing Managed Server
obremo-srv-cmn-ml-processing	BRANCHCOMMON	jdbc/SRVBRANCHCOMMON	Servicing Managed Server
obremo-srv-cus-customer-services	CUSTOMER	jdbc/SRVCUSTOMER	Servicing Managed Server
obremo-srv-prj-projection-services	PROJECTION	jdbc/SRVPROJECTION	Servicing Managed Server
obremo-rpm-maintenance-services	RPMMAINTENANCE	jdbc/OBREMOMAINTCE	Retail Process Managed Server
obremo-rpm-process-driver-services	RPMProcessDriver	jdbc/RPMPROCESSDRIVER	Retail Process Managed Server
obremo-rpm-businessprocess-services	RPMBusinessProcess	jdbc/OBREMOBUSSPRC	Retail Process Managed Server
obremo-rpm-businessproductdetails-services	RPMBusinessProduct	jdbc/OBREMOBPDETAILS	Retail Process Managed Server
obremo-rpm-cmn-applicantservices	RPMCmnApplicant	jdbc/CMNAPPLICANT	Retail Process Managed Server
obremo-rpm-cmn-hostservices	RPMHostService	jdbc/RPMHOST	Retail Process Managed Server
obremo-rpm-cmn-scorecardservices	RPMScorecard	jdbc/CMNSCORECARD	Retail Process Managed Server

obremo-rpm-lo-loanapplications	RPMLoan	jdbc/LOANAPP	Retail Process Managed Server
obremo-rpm-sav-account-service	RPMSaving	jdbc/SAVACC	Retail Process Managed Server

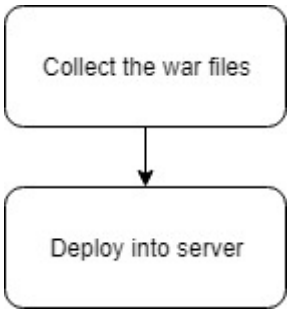
4.3 Steps to Create Datasource

For creating data source, refer to **How to create Data sources** section in ANNEXURE-1.

5. Deployments

5.1 Pre-requisite

The database setup and data sources creation have to be performed prior to the application deployment stage. Each of the services corresponds to a specific war file that needs to be deployed into the server. The following sections explain the list of war files of the Retail Operations application and the steps to deploy them into the server.



5.2 Deployments List

Below table give details of the deployments required on each domain for the Retail Operations application to run. Deploy one after other in the same given order.

Application	Archive name	OSDC path	Targets
Stage Services	stage-services-5.1.0.war	{**unzip the file**}OBREMO_SERVICES\stage-services	Party Managed Server
OBPY Party Services	obpy-party-services-5.1.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-services	Party Managed Server
Party KYC Services	obpy-party-kyc-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-kyc-services	Party Managed Server
OBPY Businessprocess Services	obpy-businessprocess-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-businessprocess-services	Party Managed Server
OBPY Party Handoff Services	obpy-party-handoff-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-handoff-services	Party Managed Server
OBPY Party Publisher Services	obpy-party-publisher-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-publisher-services	Party Managed Server
OBPY Party Maintenance Services	obpy-party-maintenance-service-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-maintenance-service	Party Managed Server
OBPY Party Adapter Services	obpy-party-adapter-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obpy-party-adapter-services	Party Managed Server

Branch Common Service	obremo-srv-bcn-branchcommon-services-5.0.0.war	{**unzip the file**}OBREMO_SERVICES\obremo-srv-bcn-branchcommon-services\APP	Servicing Managed Server
Adapter Service	obremo-srv-adp-adapter-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-adp-adapter-services\APP	Servicing Managed Server
Cash Services	obremo-srv-cas-cash-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-cas-cash-services\APP	Servicing Managed Server
Machine Learning Processing	obremo-srv-cmn-ml-processing-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-cmn-ml-processing\APP	Servicing Managed Server
Common Transaction Service	obremo-srv-cmn-transaction-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-cmn-transaction-services\APP	Servicing Managed Server
Customer Service	obremo-srv-cus-customer-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-cus-customer-services\APP	Servicing Managed Server
Payment Service	obremo-srv-pay-payment-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-pay-payment-services\APP	Servicing Managed Server
Projection Services	obremo-srv-prj-projection-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-prj-projection-services\APP	Servicing Managed Server
Term Deposit Service	obremo-srv-tds-term-deposit-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-srv-tds-term-deposit-services\APP	Servicing Managed Server
Mail Poller Service	cmc-fc-ai-ml-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\cmc-fc-ai-ml-services\APP	Common Core Server
RPM Maintenance Services	obremo-rpm-maintenance-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-rpm-maintenance-services\APP	Retail Process Managed Server
RPM Process Driver	obremo-rpm-process-driver-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-process-driver-services \APP	Retail Process Managed Server
RPM Business Process	obremo-rpm-businessprocess-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-businessprocess-services\APP	Retail Process Managed Server
RPM Business Product details	obremo-rpm-businessproductdetails-services-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-businessproductdetails-services\APP	Retail Process Managed Server
RPM Common Applicant	obremo-rpm-cmn-applicantservices-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-cmn-applicantservices\APP	Retail Process Managed Server
RPM Host Services	obremo-rpm-cmn-hostservices-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-cmn-hostservices\APP	Retail Process Managed Server
RPM ScoreCard	obremo-rpm-cmn-scorecardservices-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\ obremo-rpm-cmn-scorecardservices \APP	Retail Process Managed Server

RPM Loan Applicant Services	obremo-rpm-lo-loanapplications-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-rpm-lo-loanapplications\APP	Retail Process Managed Server
RPM Savings (CASA) Services	obremo-rpm-sav-account-service-5.0.0.war	{**unzip the file**} OBREMO_SERVICES\obremo-rpm-sav-account-service\APP	Retail Process Managed Server

5.3 Steps to Deploy as Application

To deploy application, refer to **How to deploy** section in ANNEXURE-1.

6. Restarts and Refresh

Once everything is deployed, restart all the managed servers. And for each application call path “/refresh” for refreshing the configuration properties.

6.1 Restarting Servers

To restart the server, refer to **How to restart** section in ANNEXURE-1.

7. Logging Area

7.1 Introduction

This part of the document will talk about the logs area where after deployment of Retail Operation Applications in WebLogic server.

7.1.1 Logging Area

Retail Operations Application writes logs in the below area of the server-

<WEBLOGIC_DOMAIN_CONFIG_AREA/servers/APP/logs/ APP.out

Let's assume a domain has been created **party_domain** with **managed_server** name called **PARTYAPP** in the following area of the server

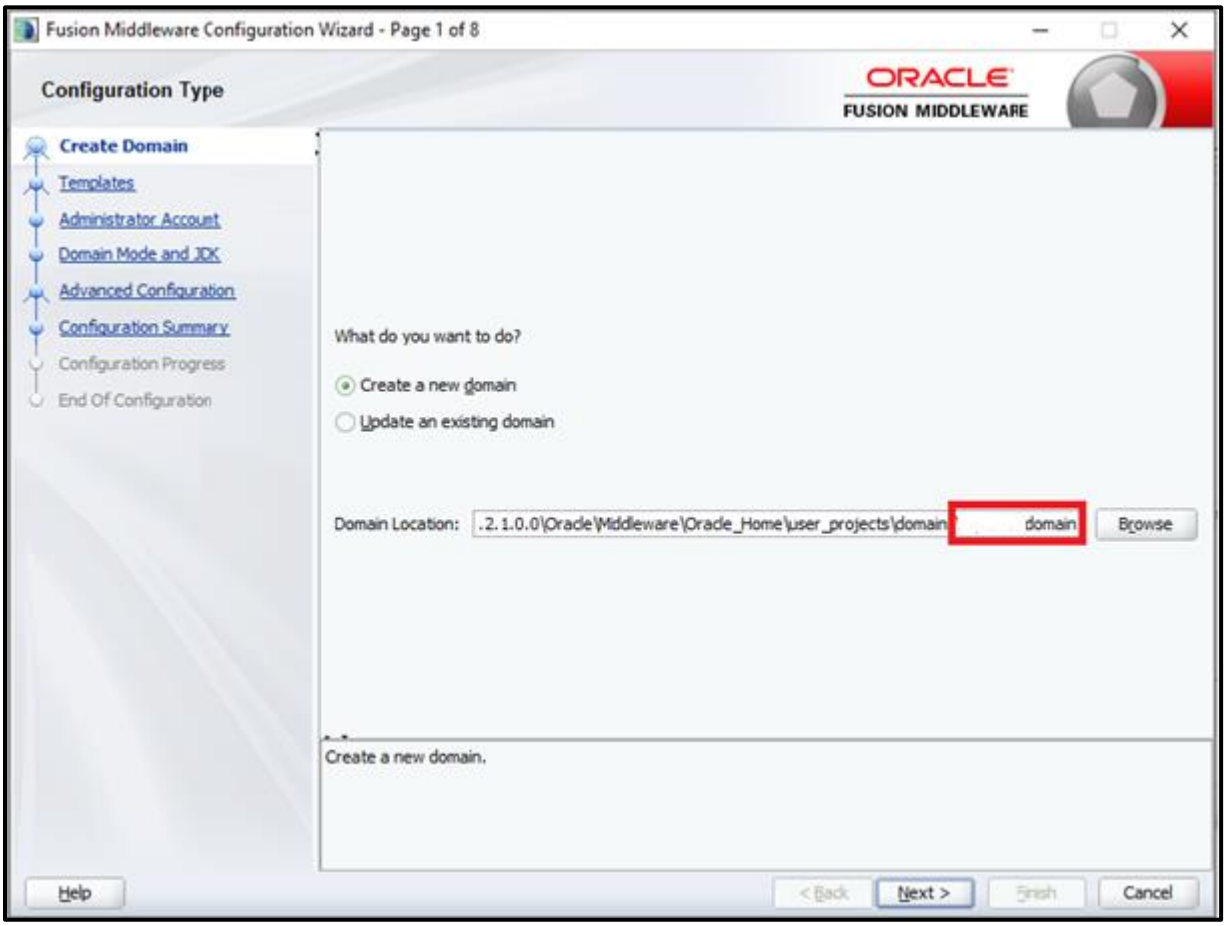
~/middleware/user_projects/domains/**party_domain**". Logging area for Retail Operations applications would be
~**/middleware/user_projects/domains/party_domain/servers/PARTYAPP/logs/ PARTYAPP.out.**

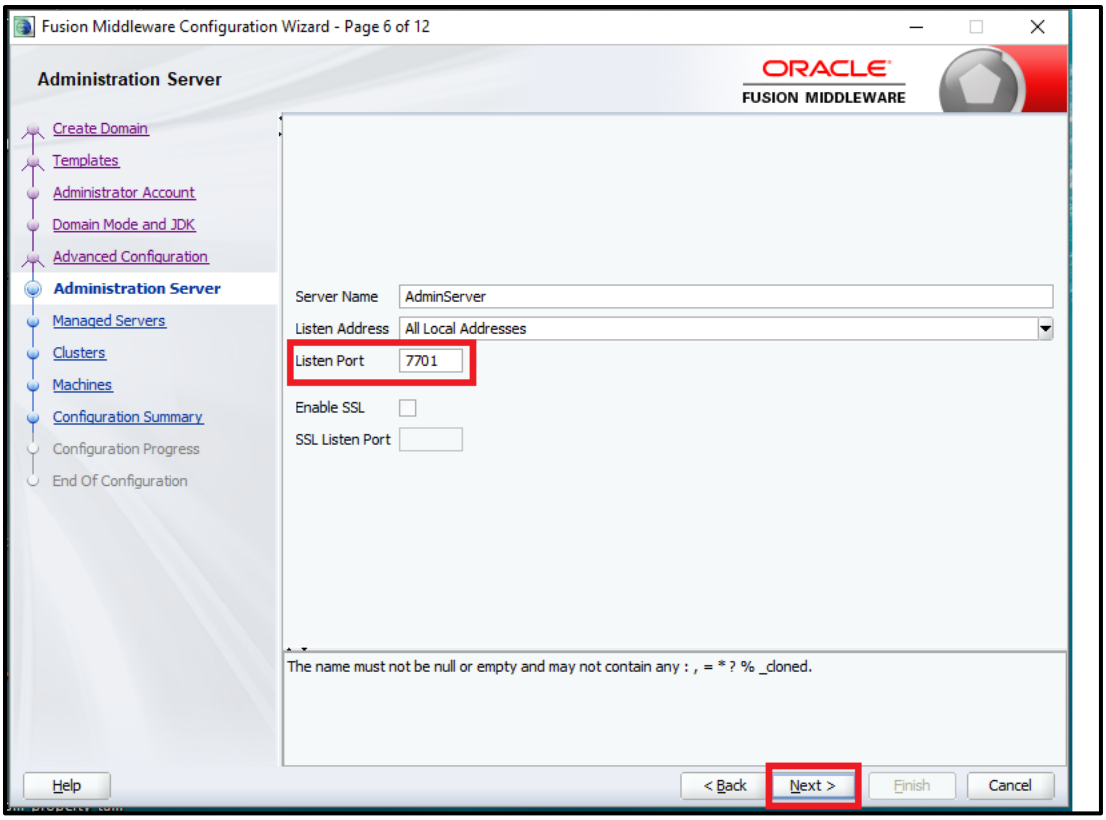
8. Retail Operations UI Domain and Cluster Configuration

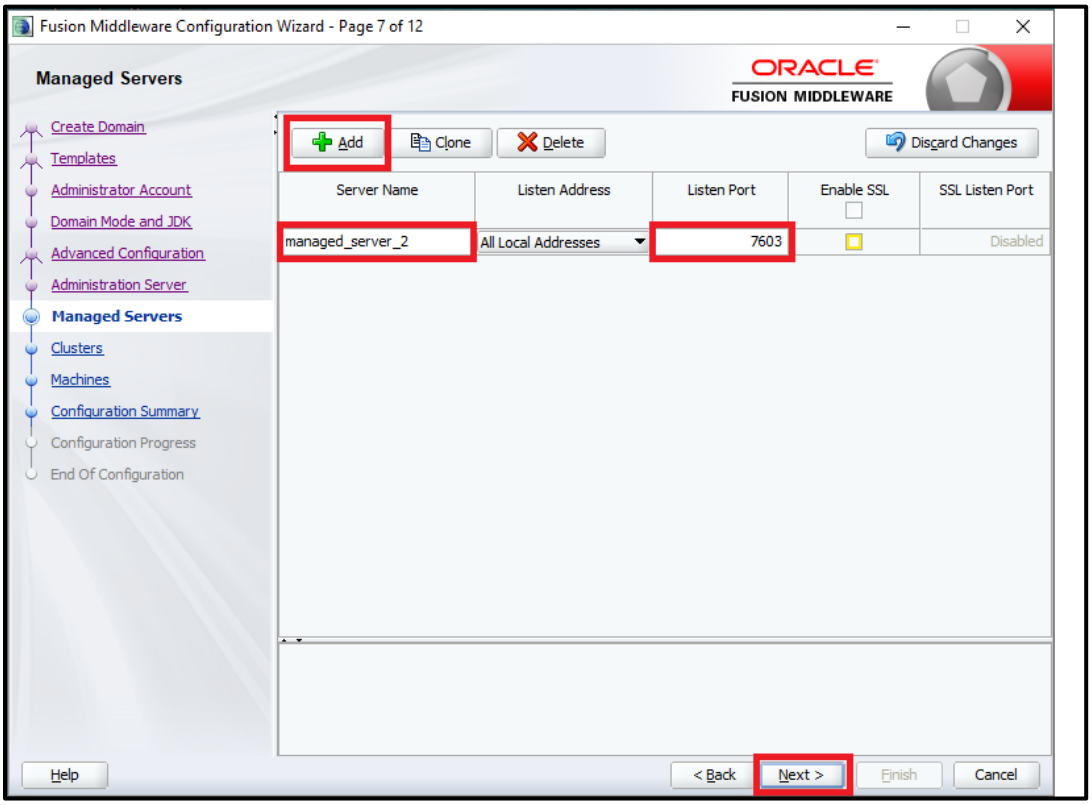
8.1 Prerequisites

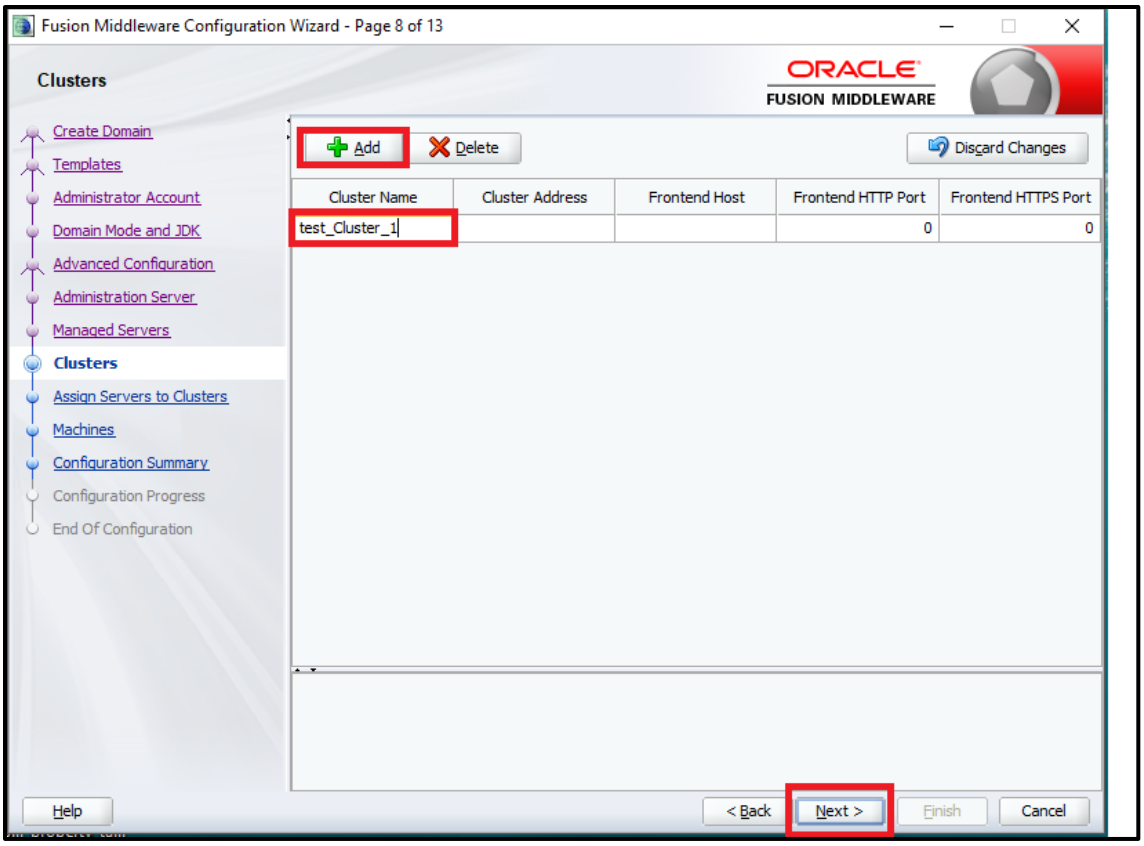
1. Machine should have Java JDK1.8.0_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4 has to be installed on the machine.

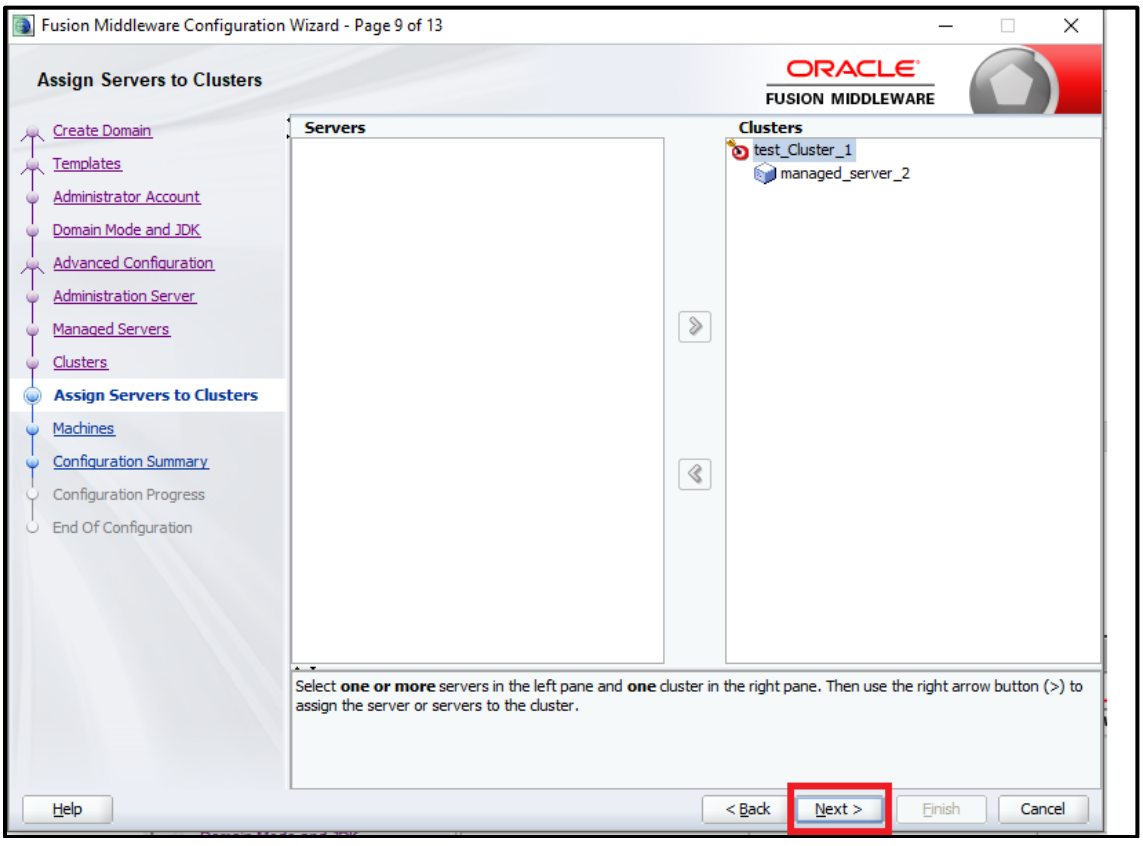
8.2 Retail Operations UI Domain (OBREMOUI)

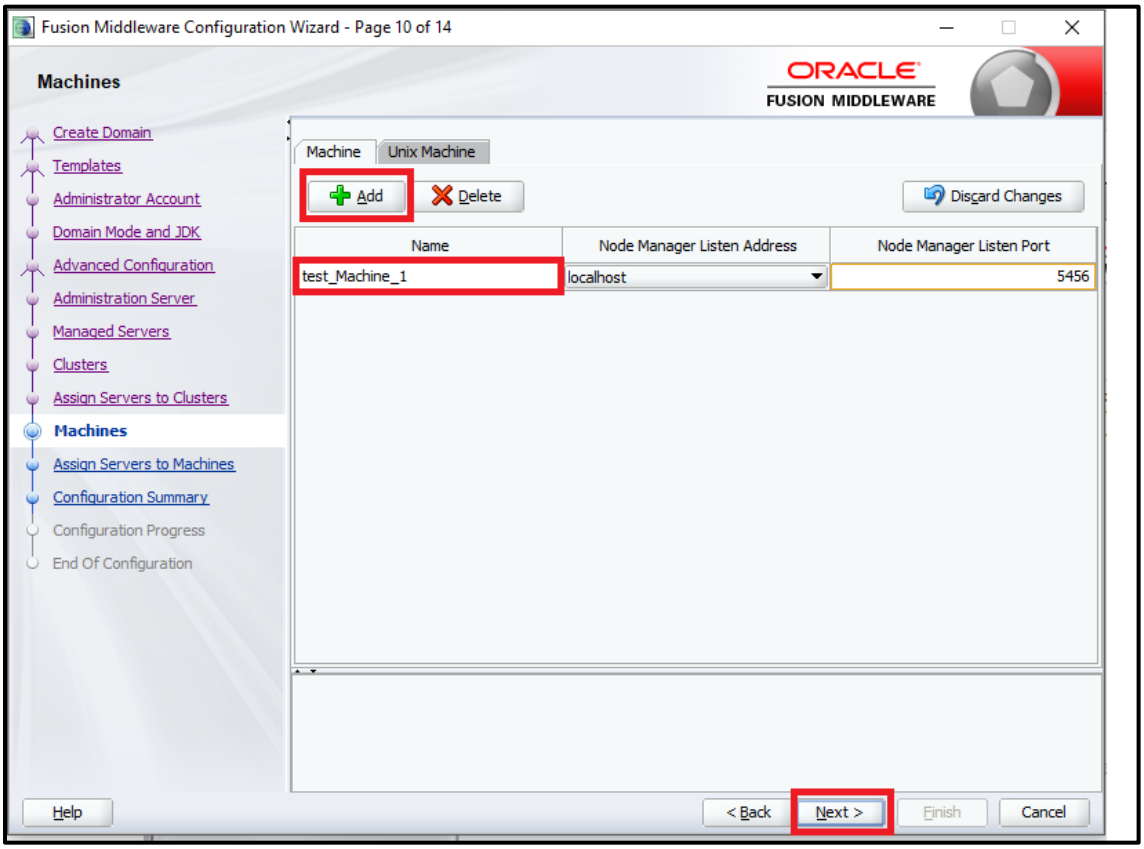


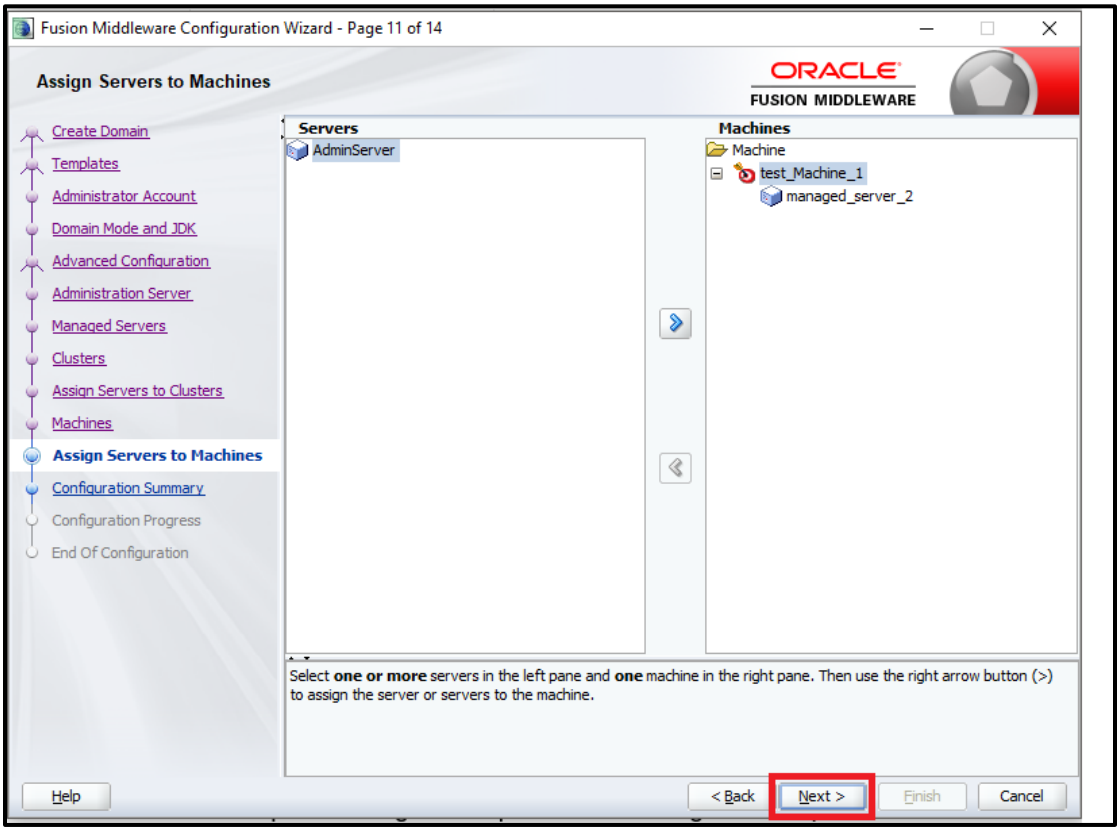

Fusion Middleware Configuration Wizard - Page 6 of 12
Administration Server
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Server Name
AdminServer
Listen Address
All Local Addresses
Listen Port
7701
Enable SSL
SSL Listen Port
The name must not be null or empty and may not contain any : , = * ? % _cloned.
Help
< Back
Next >
Finish
Cancel

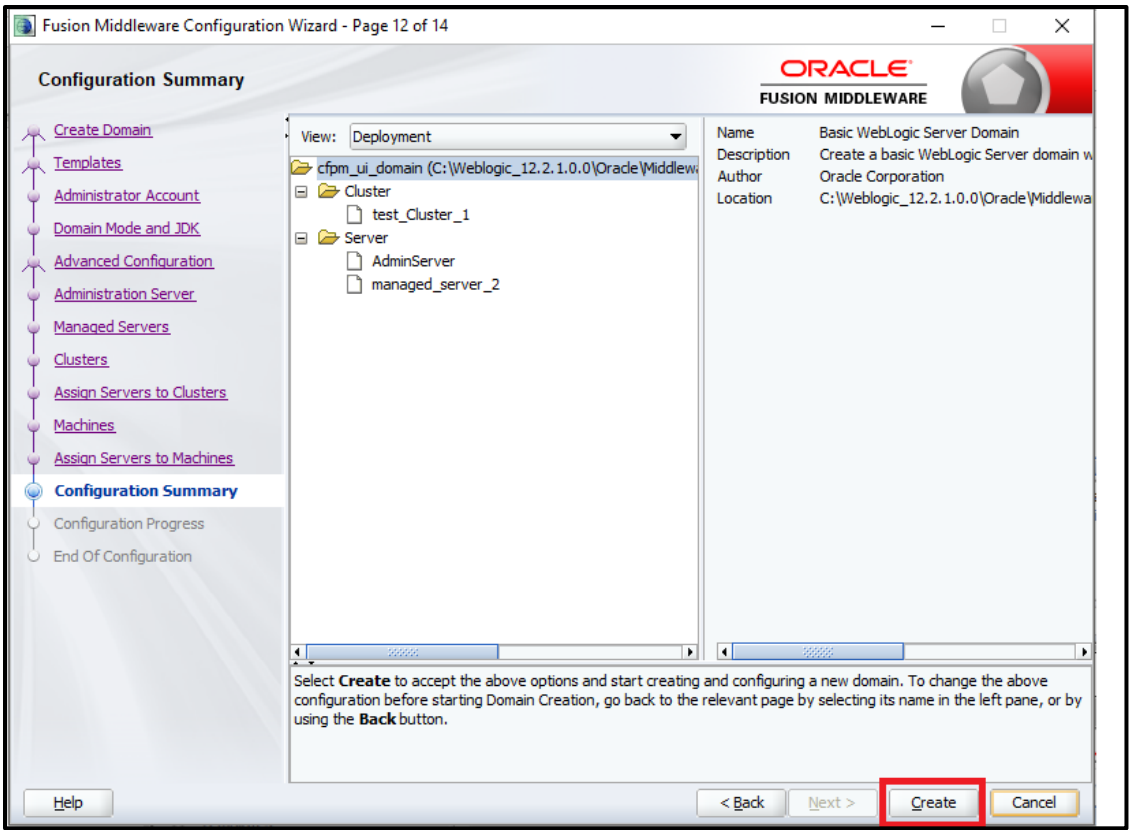

Fusion Middleware Configuration Wizard - Page 7 of 12
Managed Servers
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Add
Clone
Delete
Discard Changes
Server Name
Listen Address
Listen Port
Enable SSL
SSL Listen Port
managed_server_2
All Local Addresses
7603
Disabled
Help
< Back
Next >
Finish
Cancel

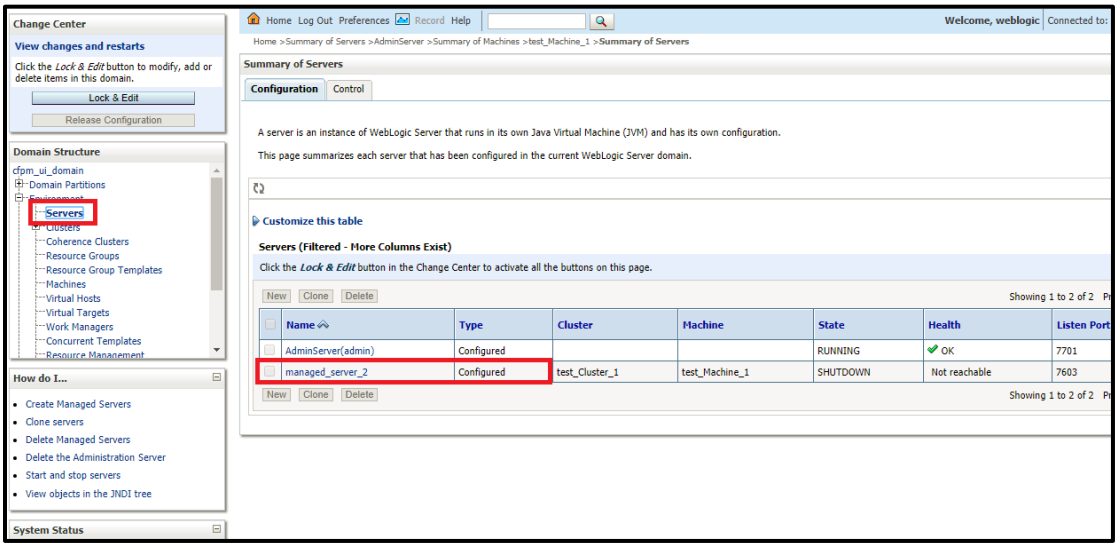

Fusion Middleware Configuration Wizard - Page 8 of 13
Clusters
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Assign Servers to Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Add
Delete
Discard Changes
Cluster Name
Cluster Address
Frontend Host
Frontend HTTP Port
Frontend HTTPS Port
test_Cluster_1
0
0
Help
< Back
Next >
Finish
Cancel

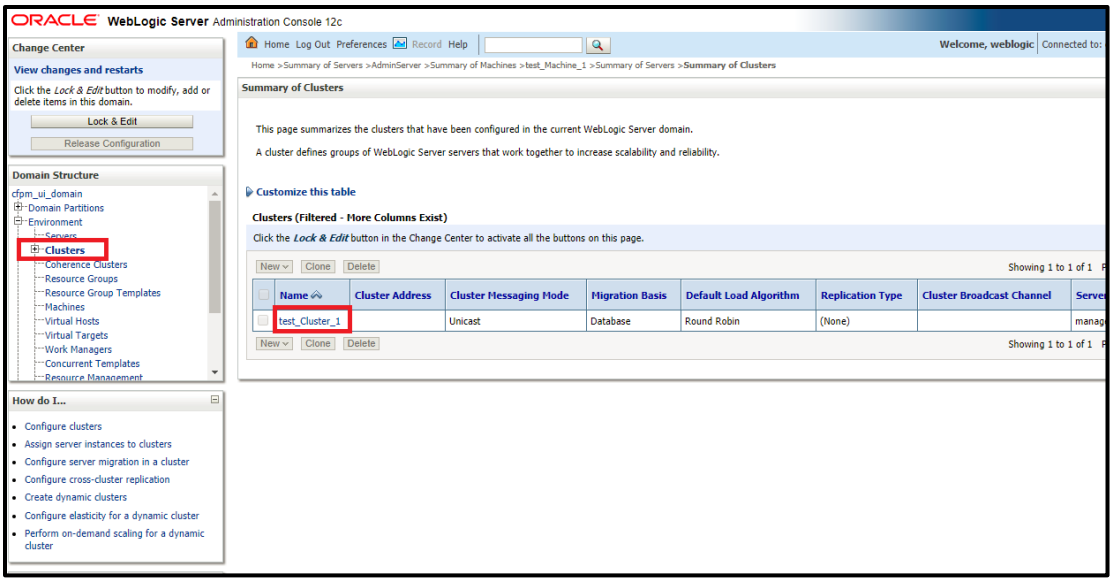

Fusion Middleware Configuration Wizard - Page 9 of 13
Assign Servers to Clusters
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Assign Servers to Clusters
Machines
Configuration Summary
Configuration Progress
End Of Configuration
Servers
Clusters
test_Cluster_1
managed_server_2
Select one or more servers in the left pane and one cluster in the right pane. Then use the right arrow button (>) to assign the server or servers to the cluster.
Help
< Back
Next >
Finish
Cancel

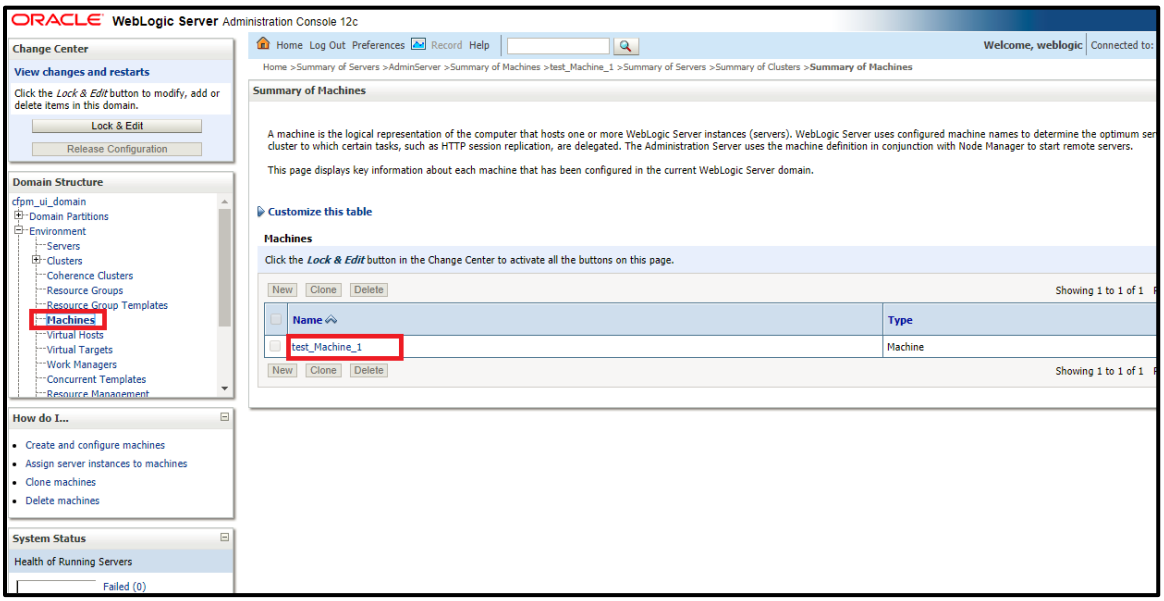

Fusion Middleware Configuration Wizard - Page 10 of 14
Machines
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Assign Servers to Clusters
Machines
Assign Servers to Machines
Configuration Summary
Configuration Progress
End Of Configuration
Machine
Unix Machine
Add
Delete
Discard Changes
Name
Node Manager Listen Address
Node Manager Listen Port
test_Machine_1
localhost
5456
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 11 of 14
Assign Servers to Machines
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Assign Servers to Clusters
Machines
Assign Servers to Machines
Configuration Summary
Configuration Progress
End Of Configuration
Servers
AdminServer
Machines
Machine
test_Machine_1
managed_server_2
Select one or more servers in the left pane and one machine in the right pane. Then use the right arrow button (>) to assign the server or servers to the machine.
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 12 of 14
Configuration Summary
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Managed Servers
Clusters
Assign Servers to Clusters
Machines
Assign Servers to Machines
Configuration Summary
Configuration Progress
End Of Configuration
View: Deployment
cfpm_ui_domain (C:\Weblogic_12.2.1.0.0\Oracle\Middlew
Cluster
test_Cluster_1
Server
AdminServer
managed_server_2
Name Basic WebLogic Server Domain
Description Create a basic WebLogic Server domain w
Author Oracle Corporation
Location C:\Weblogic_12.2.1.0.0\Oracle\Middlewa
Select Create to accept the above options and start creating and configuring a new domain. To change the above configuration before starting Domain Creation, go back to the relevant page by selecting its name in the left pane, or by using the Back button.
Help
< Back
Next >
Create
Cancel


Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
cfpm_ui_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
How do I...
Create Managed Servers
Clone servers
Delete Managed Servers
Delete the Administration Server
Start and stop servers
View objects in the JNDI tree
System Status
Home Log Out Preferences Record Help
Welcome, weblogic Connected to:
Home >Summary of Servers >AdminServer >Summary of Machines >test_Machine_1 >Summary of Servers
Summary of Servers
Configuration Control
A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.
This page summarizes each server that has been configured in the current WebLogic Server domain.
Customize this table
Servers (Filtered - More Columns Exist)
Click the Lock & Edit button in the Change Center to activate all the buttons on this page.
New Clone Delete
Showing 1 to 2 of 2
Name Type Cluster Machine State Health Listen Port
AdminServer(admin) Configured RUNNING OK 7701
managed_server_2 Configured test_Cluster_1 test_Machine_1 SHUTDOWN Not reachable 7603
New Clone Delete
Showing 1 to 2 of 2





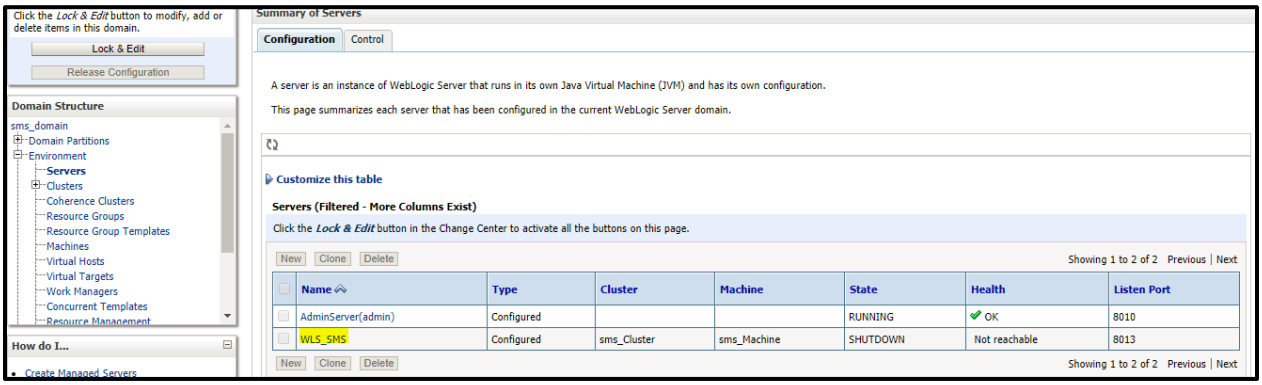
8.3 Post Domain creation configurations

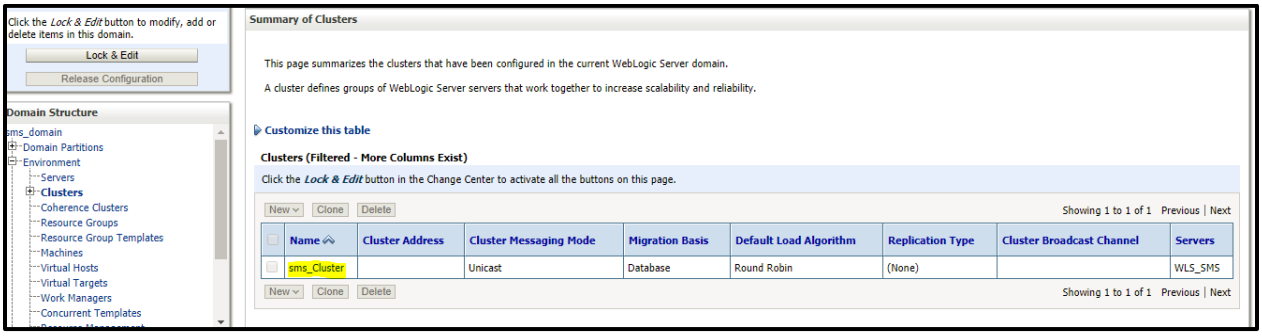
Once finished, refer oracle fusion middleware documents for more details on how to start admin server, node manager and managed servers.

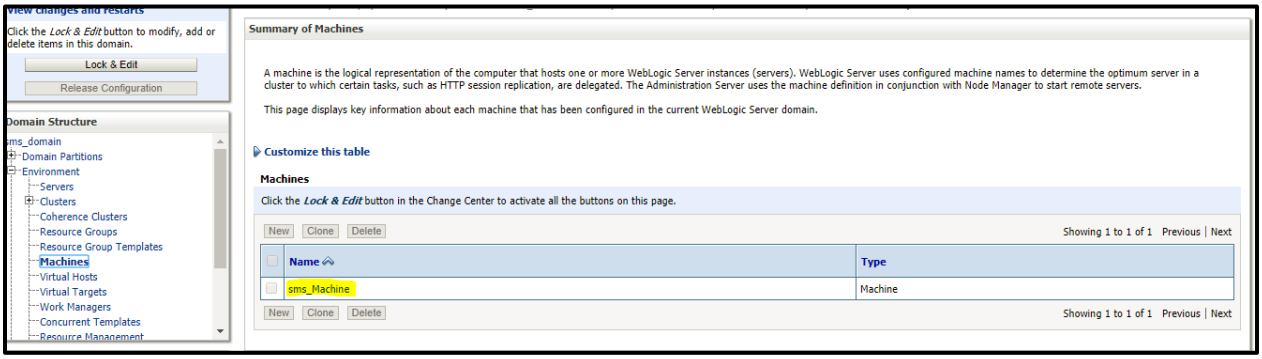
1. **Create boot**.properties file under **/user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security**.
2. Edit **boot.properties** and give username and password details.
3. Goto **/user_projects/domain/sms_domain/bin**.
4. Run **startWeblogic.cmd** (or **.sh** if operating system is linux).
5. Goto **/user_projects/domains/ sms _domain/bin**.
6. Run **setNMJavaHome.cmd** (.**sh**).
7. Goto **/user_projects/domains/ sms _domain/nodemanager**.

8. And edit **nodemanager.properties** as required(securelistner = false if ssl and keystore is not given) And in admin console also navigate to **Machines**- > **sms_Machine** -> **Node Manager** -> **Type** -> **Plain** -> **Save**.
9. Navigate to **/user_projects/domains/ sms _domain/bin**.
10. Run **startNodeManager.cmd** (or **.sh** if operating system is linux).
11. Start all managed servers.

Login to console and verify servers and clusters.







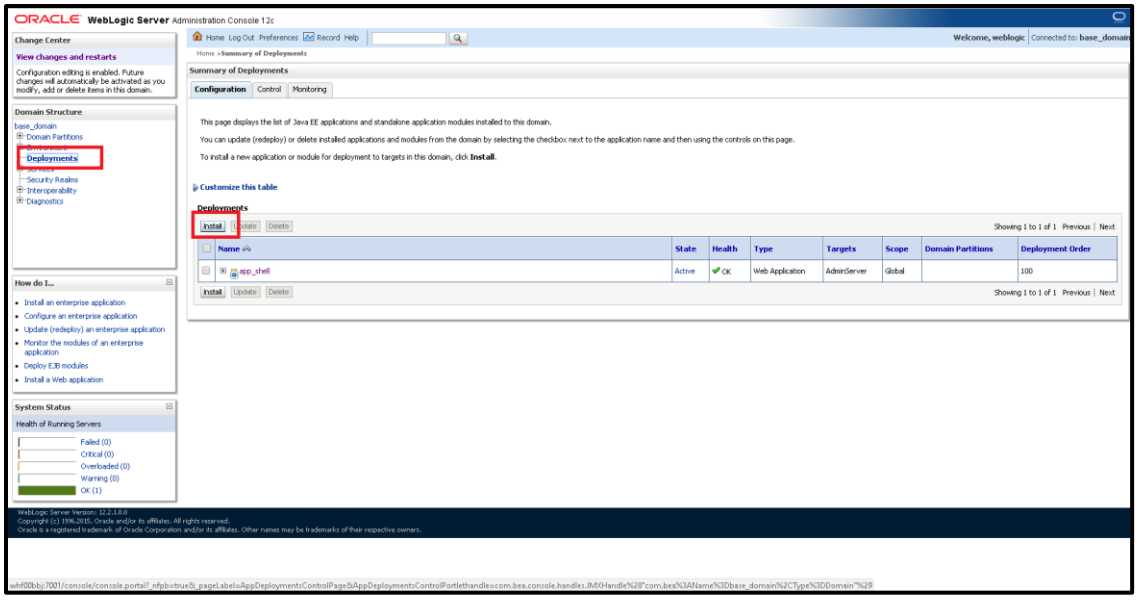
9. Retail Operation User Interface Deployments

9.1 Steps to deploy as application

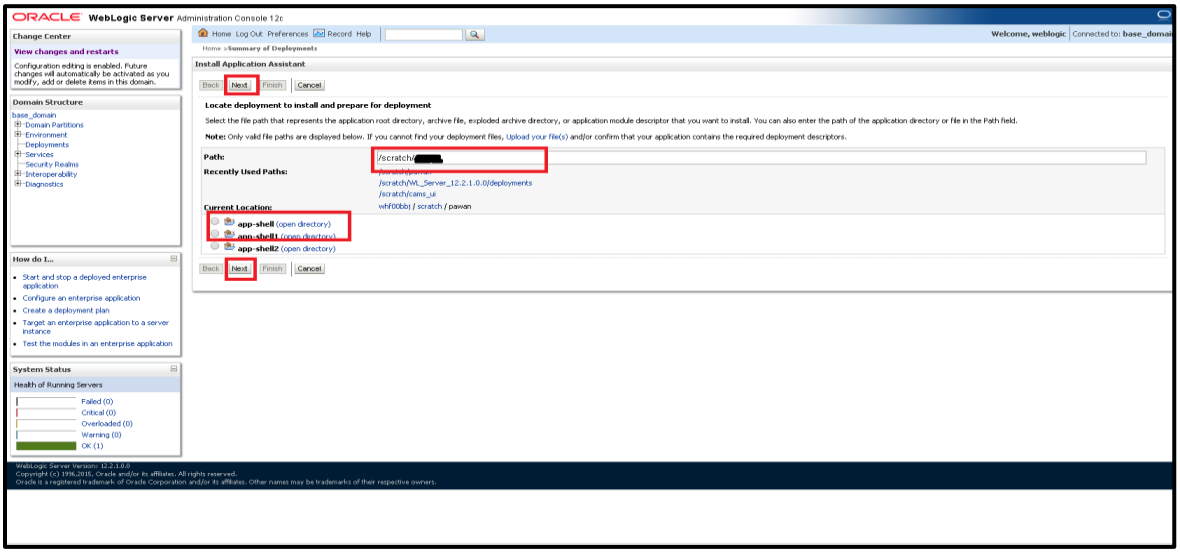
Note the following:
Server names, Domain names need not to be same as this doc provides.

Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain where we deploy will differ. Find the below screenshots to see how deployment of archive as application is done on weblogic.

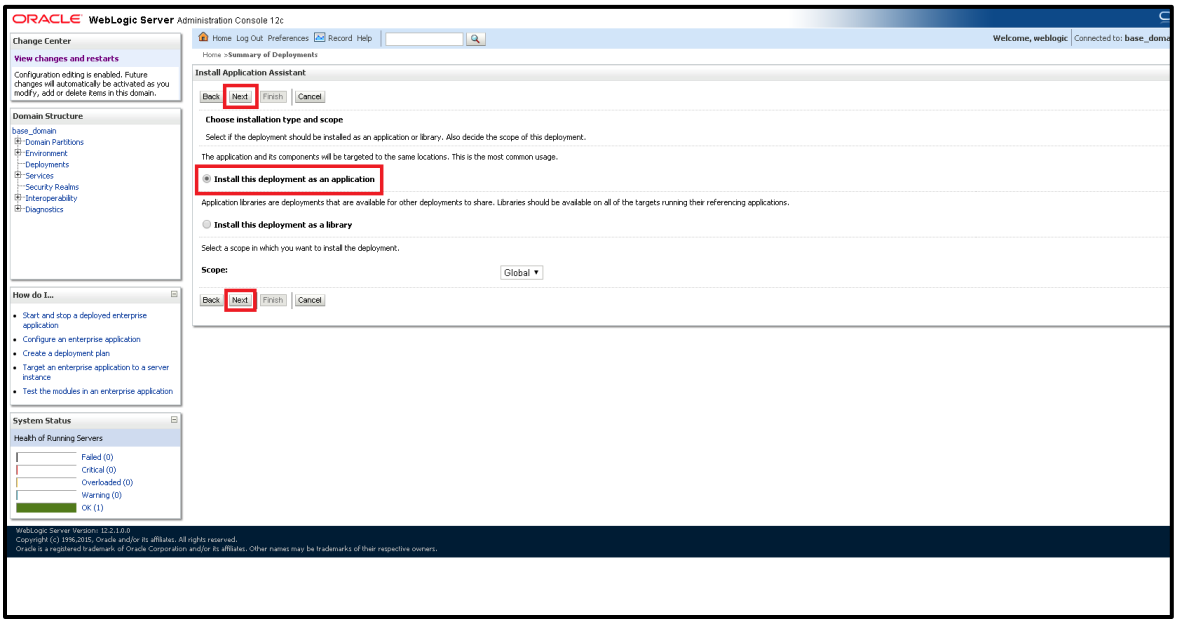
1. Extract the zip file under **UI** folder.
2. Open **app-shell\common\js\util\config\config.json** file change **apiGatewayURL** to point plato-api-gateway URL.
3. Copy app-shell folder and paste it to your server. E.g. scratch/deployment.
4. Open Weblogic console and navigate to the **Deployments**.



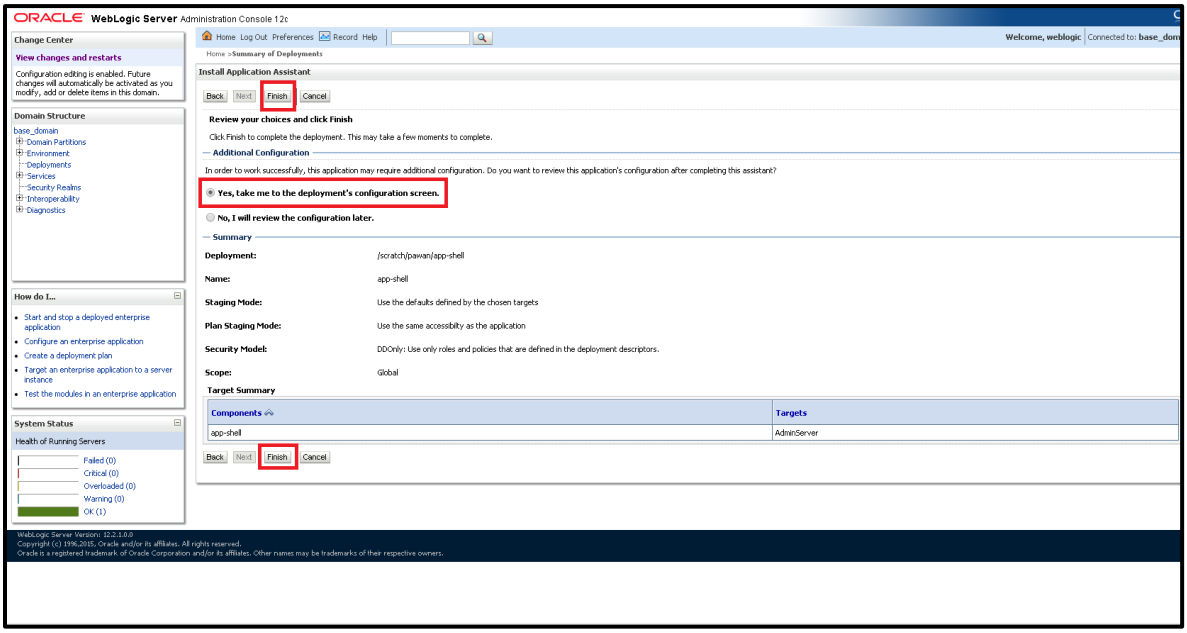
5. Click **Install**, paste folder location on path and press **Enter** key, select the app_shell directory.



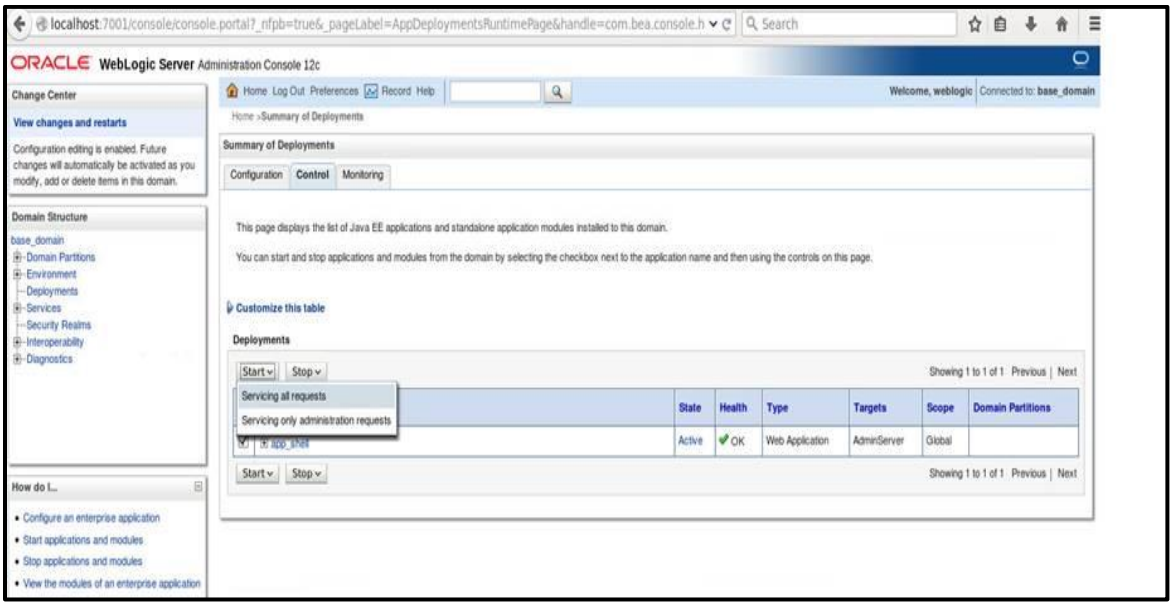
6. Check the option install this deployment as an application option and click **Next**.



7. Name the deployment as app_shell and click **Next**.
8. Check the option **Yes, take me to the deployment's configuration screen** and click **Finish**.



9. Navigate to the **Control** tab and click **start.** Select the option **Servicing all requests** and Click **Yes**.



10. Please verify state is Active. If yes please try to open the URL in this format:

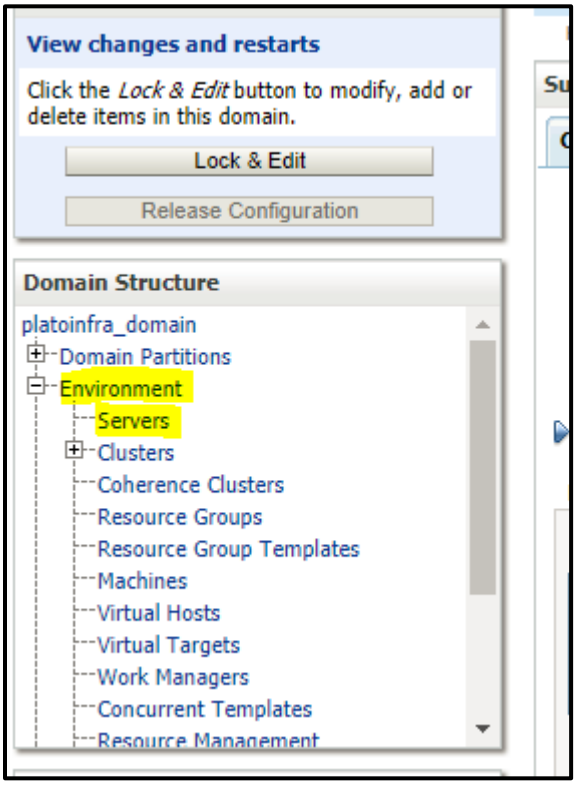
    http://HostName:PortNo/obremo-app-shell-14.4.0.0.0/

10.Restarts and Refresh

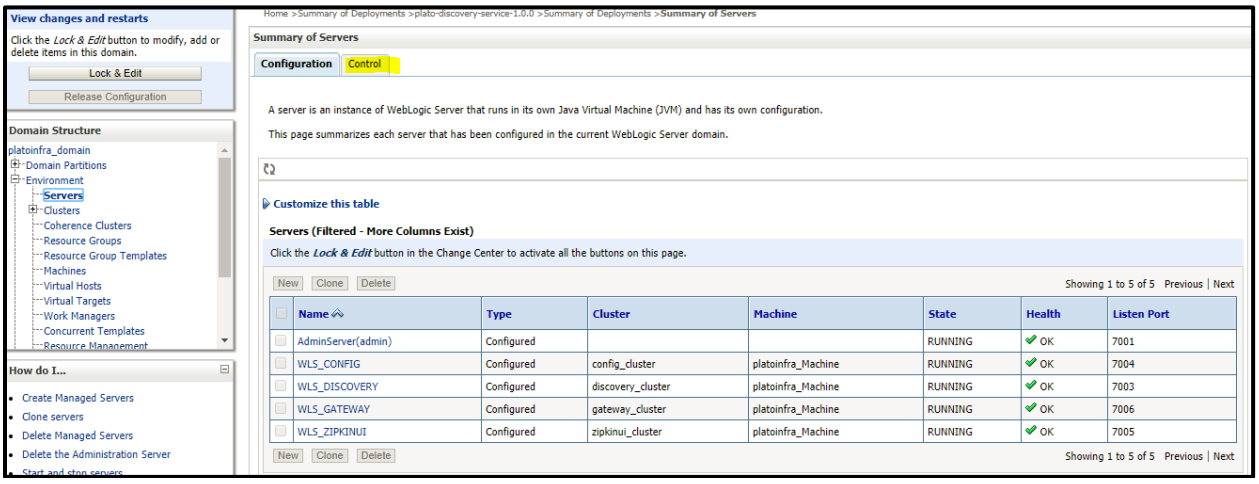
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

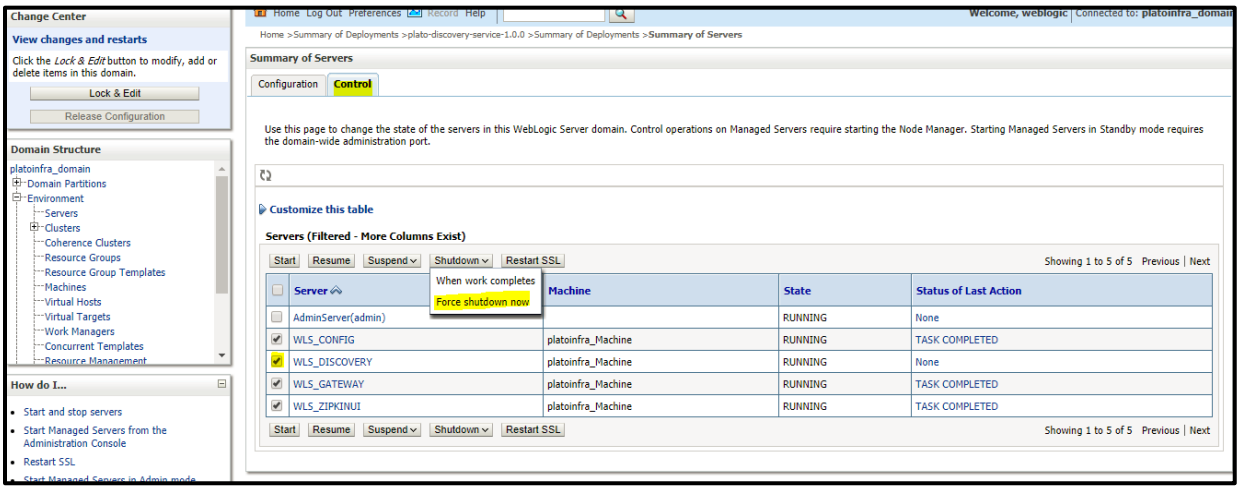
10.1 Restarting Servers

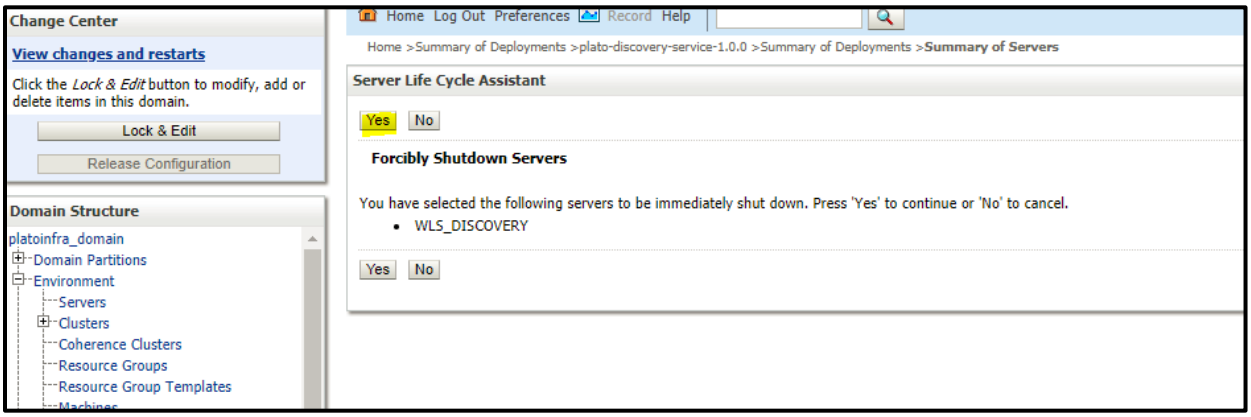
1. Navigate to **Environment** and then click **Servers**.

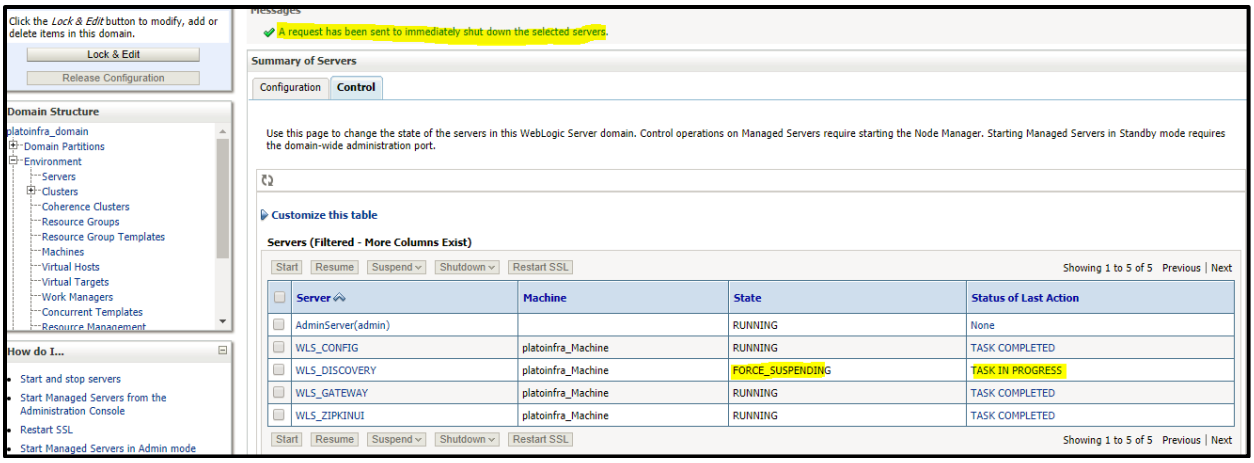


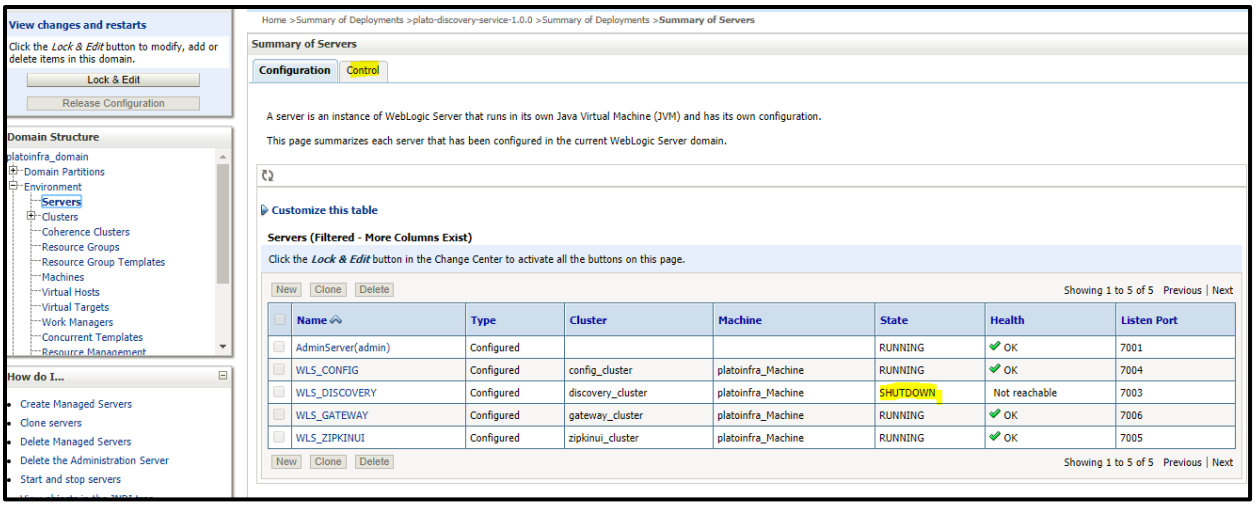
2. Click **Control** tab and select servers to shut down, and click **Yes** to confirm shutdown.



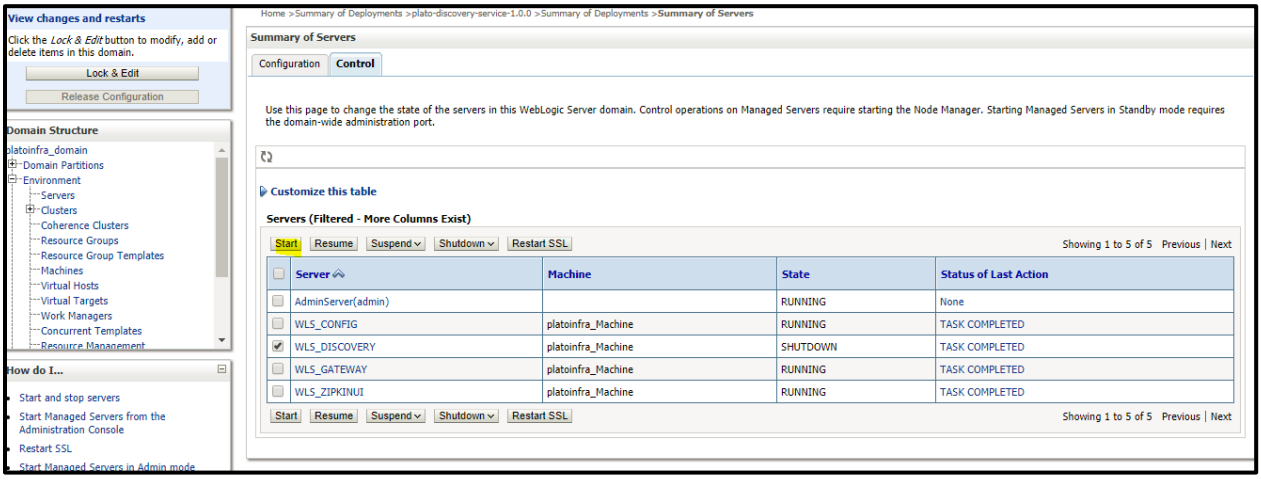

Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
How do I...
Start and stop servers
Start Managed Servers from the Administration Console
Restart SSL
Home Log Out Preferences Record Help
Welcome, weblogic | Connected to: platoinfra_domain
Home >Summary of Deployments >plato-discovery-service-1.0.0 >Summary of Deployments >Summary of Servers
Summary of Servers
Configuration
Control
Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.
Customize this table
Servers (Filtered - More Columns Exist)
Start
Resume
Suspend
Shutdown
Restart SSL
When work completes
Force shutdown now
Showing 1 to 5 of 5 Previous | Next
Server
Machine
State
Status of Last Action
AdminServer(admin)
RUNNING
None
WLS_CONFIG
platoinfra_Machine
RUNNING
TASK COMPLETED
WLS_DISCOVERY
platoinfra_Machine
RUNNING
None
WLS_GATEWAY
platoinfra_Machine
RUNNING
TASK COMPLETED
WLS_ZIPKINUI
platoinfra_Machine
RUNNING
TASK COMPLETED

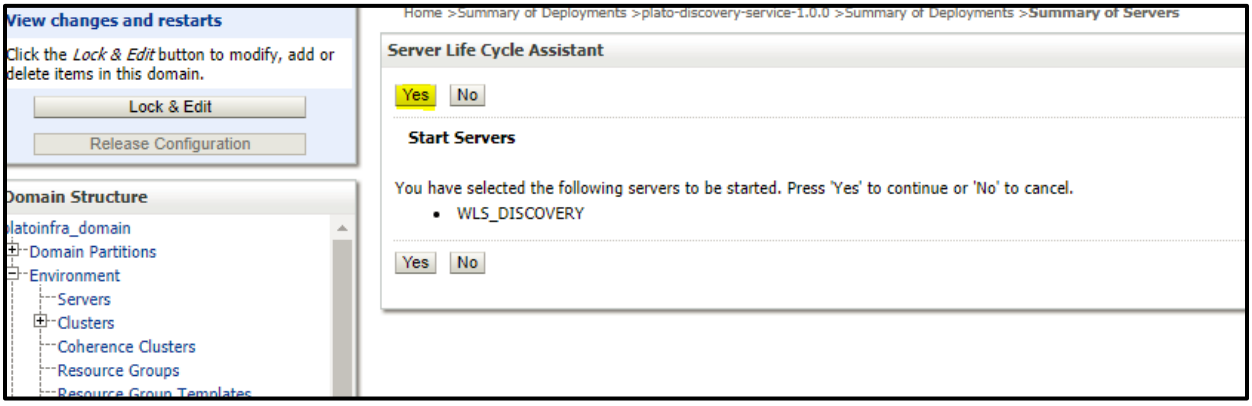

Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Home Log Out Preferences Record Help
Home >Summary of Deployments >plato-discovery-service-1.0.0 >Summary of Deployments >Summary of Servers
Server Life Cycle Assistant
Yes
No
Forcibly Shutdown Servers
You have selected the following servers to be immediately shut down. Press 'Yes' to continue or 'No' to cancel.
WLS_DISCOVERY
Yes
No

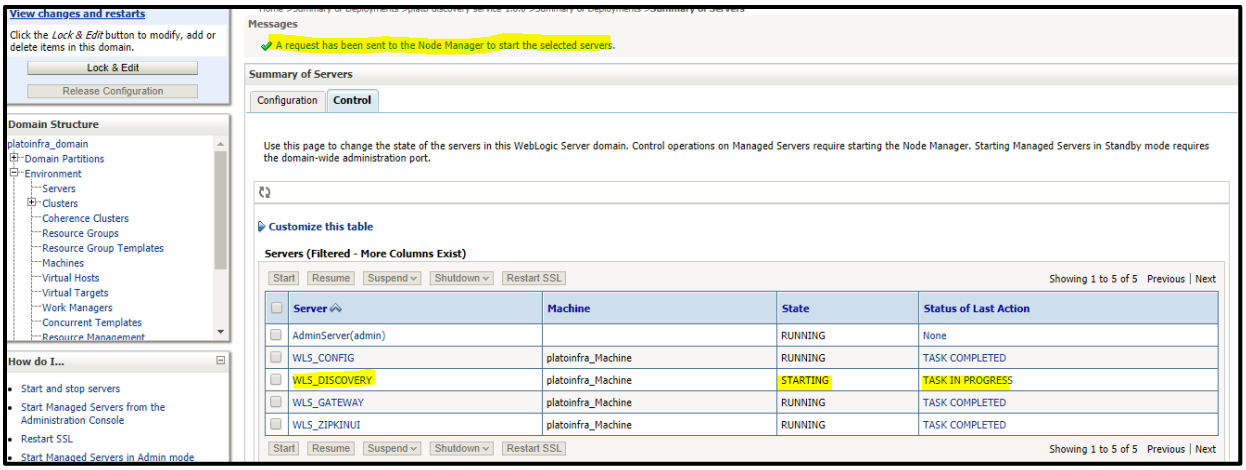

Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
How do I...
Start and stop servers
Start Managed Servers from the Administration Console
Restart SSL
Start Managed Servers in Admin mode
Messages
A request has been sent to immediately shut down the selected servers.
Summary of Servers
Configuration
Control
Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.
Customize this table
Servers (Filtered - More Columns Exist)
Start
Resume
Suspend
Shutdown
Restart SSL
Showing 1 to 5 of 5 Previous | Next
Server
Machine
State
Status of Last Action
AdminServer(admin)
RUNNING
None
WLS_CONFIG
platoinfra_Machine
RUNNING
TASK COMPLETED
WLS_DISCOVERY
platoinfra_Machine
FORCE_SUSPENDING
TASK IN PROGRESS
WLS_GATEWAY
platoinfra_Machine
RUNNING
TASK COMPLETED
WLS_ZIPKINUI
platoinfra_Machine
RUNNING
TASK COMPLETED



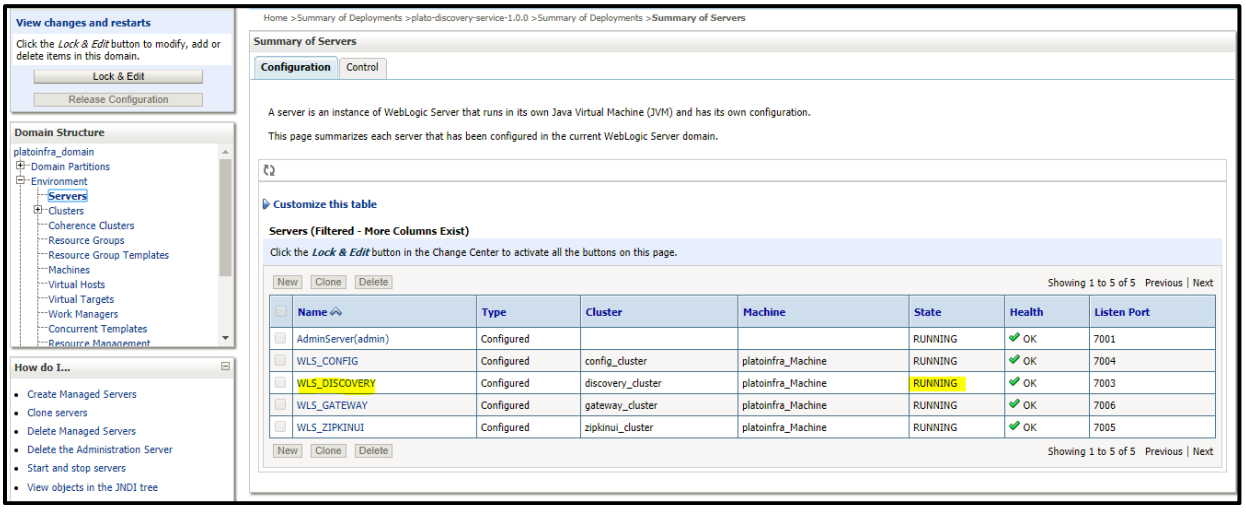
3. Once shutdown is completed, navigate to **Control** and select the servers to start and confirm action.

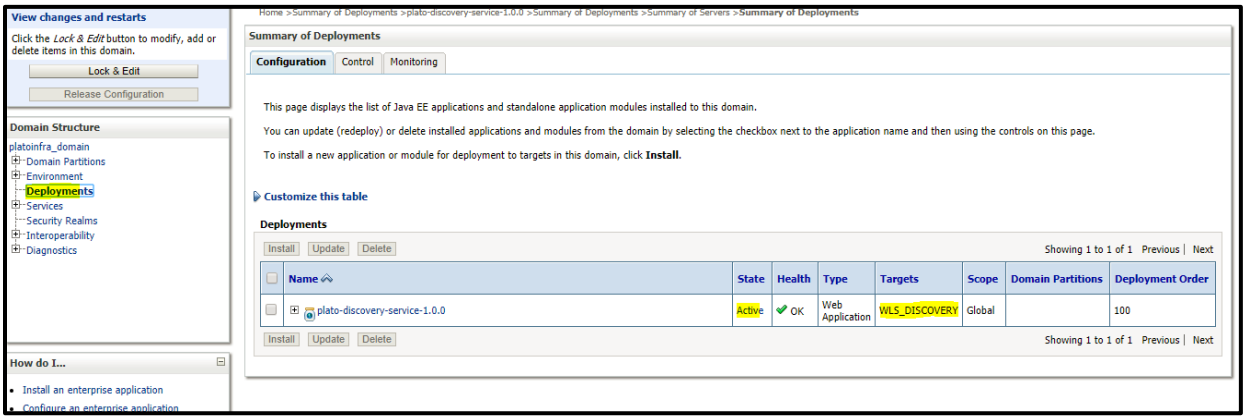






4. When all requested servers are running, navigate to **Deployments** and check if deployments are in active state.





11.Deployments

11.1 Retail Operations Processes

Below are the list of Conductor based processes which have to be deployed for the Retail Operations.

Serial Number	Process Name	Dependent process
1	OBPY-PARTY-ONBOARDING-PROCESSFLOW	None
2	CURRENTACCOUNT	None
3	EDUCATIONLOAN	None
4	HOMELOAN	None
5	INITIATION	None
6	PERSONALLOAN	None
7	SAVINGSACCOUNT	None
8	VEHICLELOAN	None

11.2 Updating the process

Before deploying the process the following section to be updated with the server ip/port for the end points used in the process.

For each process, open the process to find for “http_request” and modify the following in the uri.

```
"uri": "http://{{PROCESS_SERVER_HOST}}:{{PROCESS_SERVER_PORT}}/
```

{{PROCESS_SERVER_HOST}} - IP of the Conductor server.

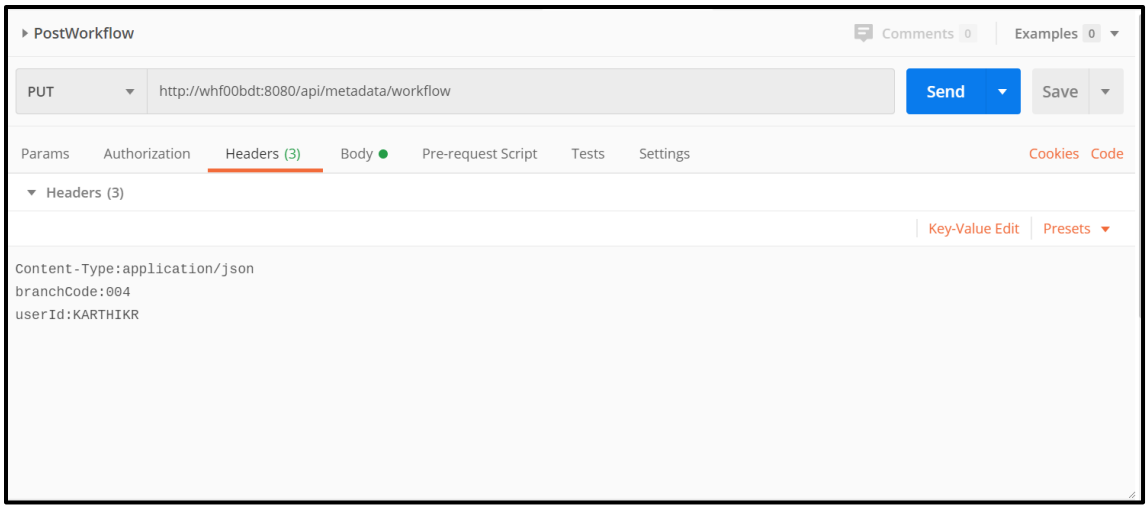
{{PROCESS_SERVER_PORT}} - Port of the Conductor server

11.3 Steps to Deploy Conductor Process

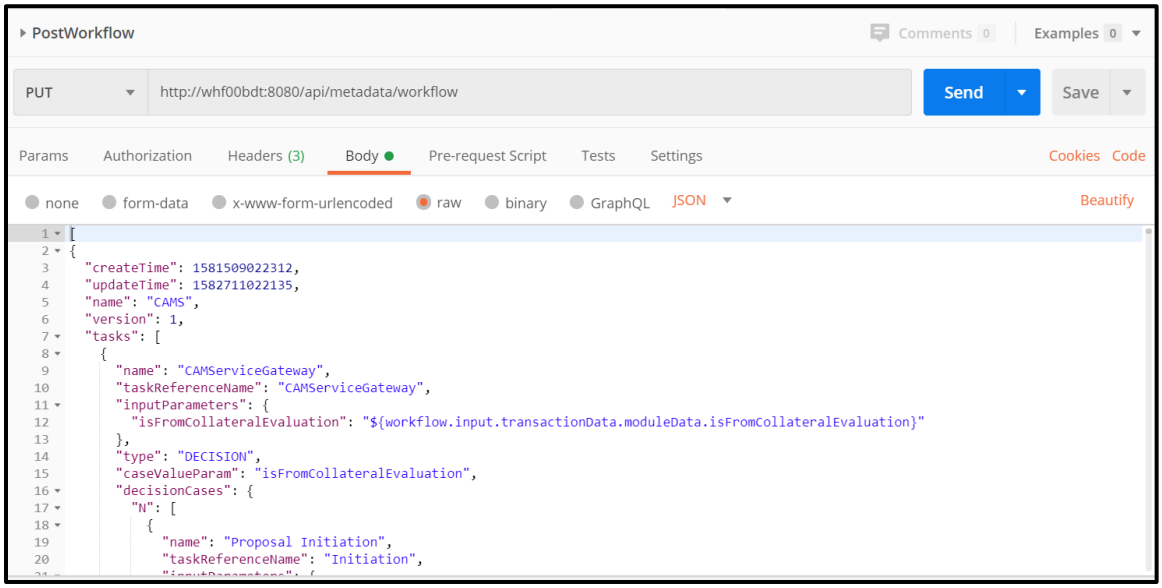

Note the following:
Server names, Domain names need not to be same as this doc provides.

Steps to Deploy a process remains the same for all the process files.

1. Launch Postman.
2. Create a new Request (if not done already) and select **POST** method. If the process flow is already deployed and if you want to update it, then the method should be “PUT”.
3. Input the header params as shown below:



4. Paste the body of the message with the content from the process file.



5. Click **Send**. Response status **204** returned from server.

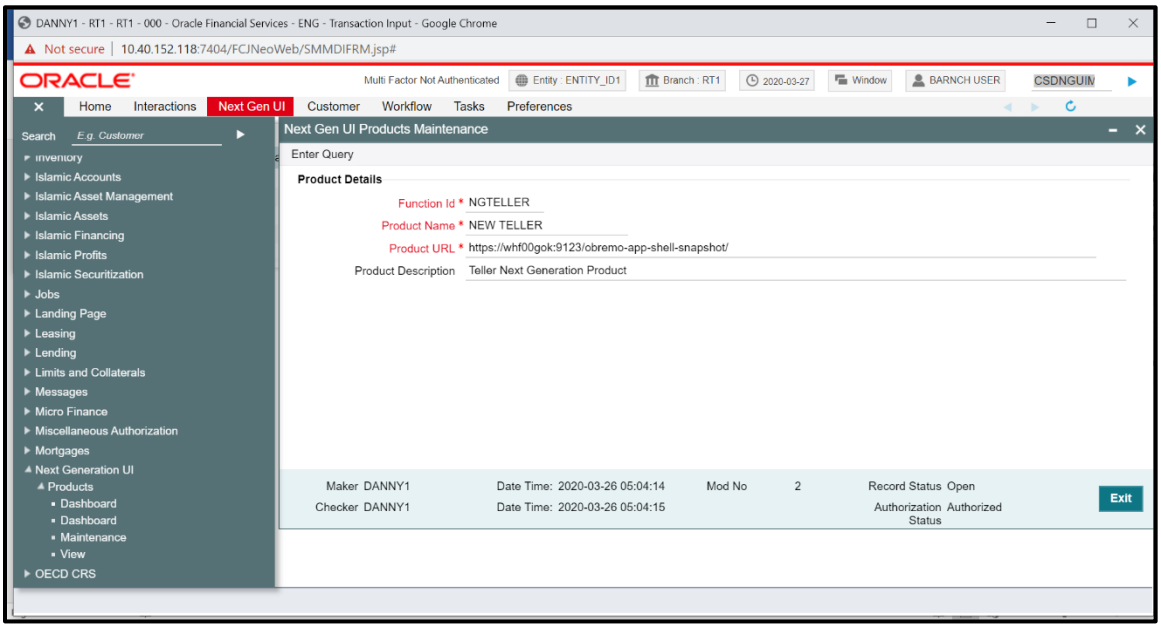
12.Launching Retail Operations from UBS

12.1 Introduction

In this section you are going to setup database related configuration for OBREMO Installation. It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

12.2 FCUBS Configurations

After Login to FCUBS environment click on **Next Generation UI** Menu and launch the maintenance screen **CSDNGUIM**. Ensure that user has roles for the screen. Update the Plato Product URL



A new Function id **NGTELLER** is released as Static Data and Ensure user roles has been maintained for the same. Once the roles are maintained Click **Next Gen UI** on tool bar. **Next Gen UI Dashboard** will be displayed with the list of products. Click **Retail** product, which will Launch **Plato Teller Dash Board**. Ensure the same user id is maintained in for the retail product and it has necessary roles.

12.3 PLATO Configurations

SECURITY_CONFIG table in PLATO_SECURITY schema should have the following entries.

Key	Value
INTEGRATION_ENABLED	True
INTEGRATION_CALLBACK_URL	https://*FCUBShostname:FCUBSport*/FCJNeoWeb/ValidationService/FCNonceValidation/validate

Please update the FCUBS hostname and port number in the above URL.

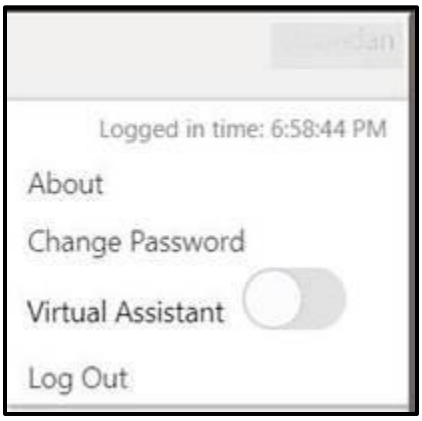
13.Oracle Digital Assistant Configuration

13.1 Introduction

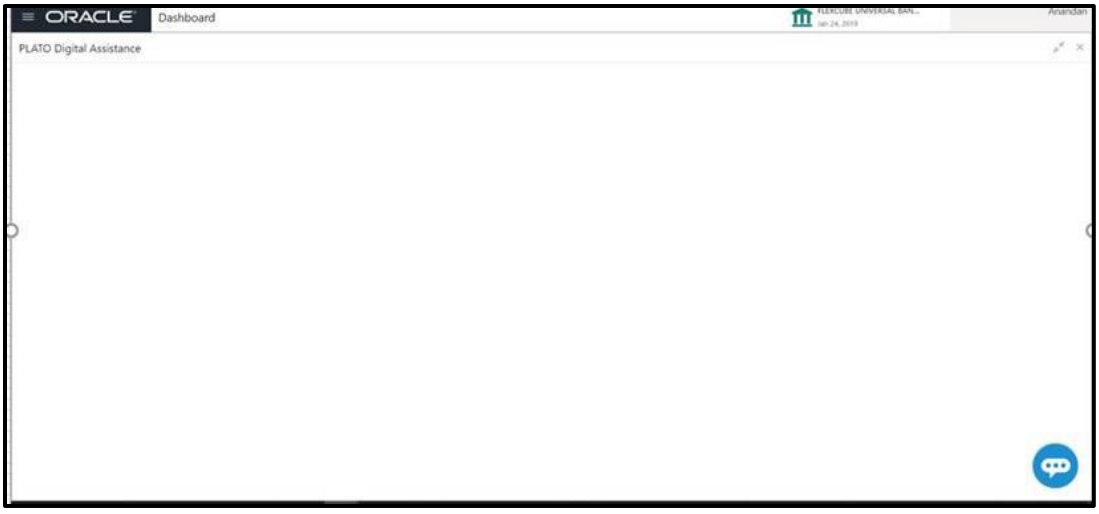
Retail Operations has to interface with Oracle Digital Assistance(ODA) for Chatbot use cases. To address above requirement, the Plato Digital Assistant wizard CCA is having configuration to connect to ODA. This wizard contain enabling of Oracle Digital Assistant's Client SDK for JavaScript to add live messaging to web application.

13.2 Plato Setup

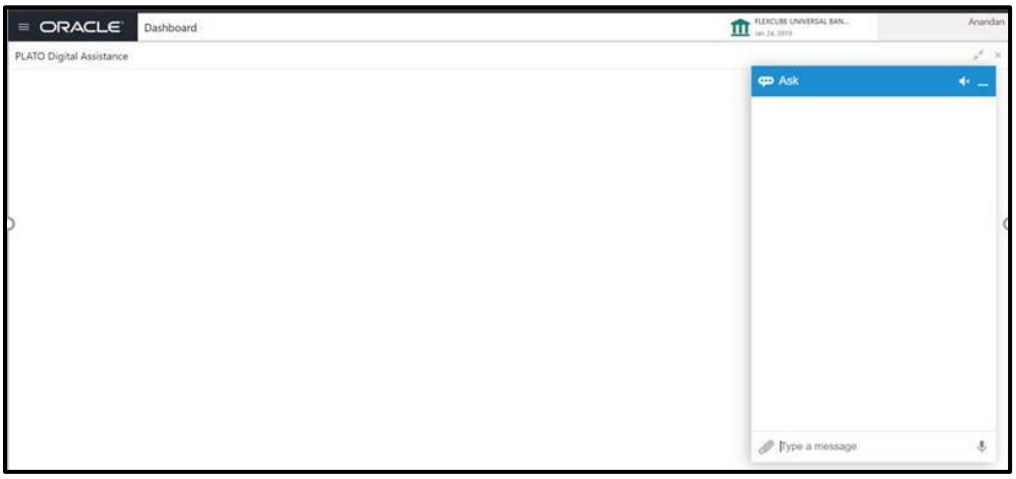
A switch is added in user info panel, to enable/disable Digital Assistance.



A new wizard will be launched with initialization of web-sdk.



Web-sdk will display chat bot icon, which can be used for communication with Oracle Digital Assistant's Server.



13.3 PLATO Configurations

PRODUCT_SERVICES_CTX_LEDGER table in PLATOUI schema should have the following entries.

Key	Value
Product Name	ODA
Service Name	odaservice
Service Context Path	/api-gateway/
Header App Id	URI,ChannelId and SECRET values to be fetched from ODA server configured to communicate with ODA client i.e web-sdk. values to be fetched from ODA server configured to communicate with ODA client i.e web-sdk. isODA flag needs to be set to “Y” in order to enable chatbot wizard.

PRODUCT_SERVICES_ENV_LEDGER table in PLATO schema should have the following entries.

Key	Value
Product Name	ODA
URL	https://*hostname:platodiscoveryport*/

Please update the hostname and port number in the above URL.

Retail Operations Installation Guide

[May] [2020]

Version 14.4.0.0.0

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