

Retail Operations Installation Guide  
Oracle FLEXCUBE Universal Banking  
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## 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. obpy-party-maintenance-service
2. obpy-stage-services
3. obpy-party-services
4. obpy-party-kyc-services
5. obpy-businessprocess-services
6. obpy-party-handoff-services
7. obpy-party-publisher-services
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. obremo-srv-cmn-utils-service
19. obbrn-srv-biz-businessprocess-services

20. cmc-fc-ai-ml-services
21. obremo-rpm-maintenance-services
22. obremo-rpm-process-driver-services
23. obremo-rpm-businessprocess-services
24. obremo-rpm-businessproductdetails-services
25. obremo-rpm-cmn-applicantservices
26. obremo-rpm-cmn-hostservices
27. obremo-rpm-cmn-scorecardservices
28. obremo-rpm-lo-loanapplications
29. obremo-rpm-sav-account-service
30. obremo-rpm-term-deposit-service
31. obremo-rpm-projection-services
32. obremo-rpm-batch-services
33. obremo-batch-cancelmavbatch-extended-services
34. obremo-batch-futuremavprocess-extended-services
35. obremo-blockmavnos-service
36. obremo-cirularchq-service
37. obremo-enttellerlargedenom-service
38. obremo-issuemav-service
39. obremo-mavbatchprocess-service
40. obremo-mrfparams-service
41. obremo-mrfpaymenttxn-service
42. obremo-statictype-service

### **User Interface**

Follow the below steps to migrate from existing app-shell build to Foundation app-shell. With Foundation app-shell, UI war is split into individual component server war files. All the component server war files should be deployed in the same managed server.

For Common Core war files, deploy the war files mentioned below:

1. app-shell
2. cmc-component-server
3. moc-component-server
4. sms-component-server

For Domain Specific war files, deploy the individual component server war files mentioned below:

1. obbrn-component-server
2. obpy-component-server
3. oboflo-component-server

### **ITALY Specific Application**

Along with the above war files, only if it is a ITALY localisation implementation please deploy additional application 'extended-cluster.war' (name as appropriate) provided with the shipped sources.

### **Process Workflow**

1. OBPY-PARTY-ONBOARDING-PROCESSFLOW
2. OBPY-PARTY-AMENDMENT-PROCESSFLOW
3. OBPY-PARTY-CORP-ONBOARDING-PROCESSFLOW
4. CURRENTACCOUNT
5. EDUCATIONLOAN
6. HOMELOAN
7. INITIATION
8. PERSONALLOAN
9. SAVINGSACCOUNT
10. CASAHOSTORCH
11. VEHICLELOAN
12. HOSTORCHESTRATOR
13. TDACCOUNT

## **1.5 Related documents**

For more information, refer to the following documents:

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

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## 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
obpy-stage-services	Yes (obpy-party-service schema)
obpy-party-services	Yes
obpy-party-kyc-services	Yes (obpy-party-service schema)
obpy-businessprocess-services	Yes (New Schema to be created for obpy-businessprocess-services for the JNDI jdbc/OBPYTCM)
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

<b>Service Name</b>	<b>Schema Required</b>
obremo-srv-cus-customer-services	Yes
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)
obremo-rpm-term-deposit-service	Yes (obremo-rpm-term-deposit-service schema)
obremo-rpm-projection-services	Yes (obremo-rpm-projection-services schema)
obremo-rpm-batch-services	No (uses the plato batch server schema)
obremo-srv-cmn-utils-services	No (obremo-srv-bcn-branchcommon-services schema)
obbrn-srv-biz-businessprocess-services	Yes (obbrn-srv-biz-businessprocess-services schema)

## **2.4 Database Link Creation**

Projection services from Retail Operations has to interface with Transaction and Payment service. To address above requirement, a database link has to be created in Transaction and Payment schema with the name PROJECTIONDBLINK pointing to Projection service's schema.

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## 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:** 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
obpy-stage-services	Retail Operations Domain
obpy-party-services	Retail Operations Domain
obpy-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
obremo-rpm-cmn-applicantservices	Retail Operations Domain



Service Name	Domain Name
obremo-rpm-cmn-hostservices	Retail Operations Domain
obremo-rpm-cmn-scorecardservices	Retail Operations Domain
obremo-rpm-lo-loanapplications	Retail Operations Domain
obremo-rpm-term-deposit-service	Retail Operations Domain
obremo-rpm-batch-services	Retail Operations Domain
obremo-rpm-projection-services	Retail Operations Domain
obremo-rpm-sav-account-service	Retail Operations Domain
obremo-srv-cmn-utils-services	Retail Operations Domain
obbrn-srv-biz-businessprocess-services	Retail Operations Domain
obremo-batch-cancelmavbatch-extended-services*	Retail Operations Domain
obremo-batch-futuremavprocess-extended-services*	Retail Operations Domain
obremo-blockmavnos-service*	Retail Operations Domain
obremo-circularchq-service*	Retail Operations Domain
obremo-enttellerlargedenom-service*	Retail Operations Domain
obremo-issuemav-service*	Retail Operations Domain
obremo-mavbatchprocess-service*	Retail Operations Domain
obremo-mrfparams-service*	Retail Operations Domain
obremo-mrfpaymenttxn-service*	Retail Operations Domain
obremo-statictype-service*	Retail Operations Domain

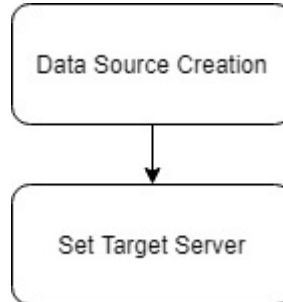
**NOTE:** ITALY localization specific service should be considered only if it is an ITALY localization implementation.

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## 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
obpy-stage-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-kyc-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-businessprocess-services	PARTY	jdbc/OBPYTCM	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/SRVCMTXN	Servicing Managed Server

Service Name	Data source Name	Data source JNDI	Targets
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	RPMMMAINTENANCE	jdbc/OBREMOMAI NTCE	Retail Process Managed Server
obremo-rpm-process-driver-services	RPMProcessDriver	jdbc/RPMPROCES SDRIVER	Retail Process Managed Server
obremo-rpm-businessprocess-services	RPMBusinessProcesses	jdbc/OBREMOBUS SPRC	Retail Process Managed Server
obremo-rpm-businessproductdetails-services	RPMBusinessProduct	jdbc/OBREMOBPD ETAILS	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-term-deposit-service	RPMTD	Jdbc/TDACC	Retail Process Managed Server
obremo-rpm-projection-services	RPMPROJECTION	jdbc/RPMPROJECTION	Retail Process Managed Server
obremo-rpm-sav-account-service	RPMSaving	jdbc/SAVACC	Retail Process Managed Server
obremo-srv-cmn-utils-services	BRANCHCOMMON	jdbc/SRVBRANCHCOMMON	Servicing Managed Server
obbrn-srv-biz-businessprocess-services	BIZPROCESS	jdbc/BIZPRC	Servicing Managed Server
obremo-batch-cancelmavbatch-extended-services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-batch-futuremavprocess-extended-services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-blockmavnos-service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server
obremo-cirularchq-service	CASH	jdbc/SRVCASH	Servicing Managed Server

Service Name	Data source Name	Data source JNDI	Targets
obremo-endtellerlargedenom-service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-issuemav-service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-mavbatchprocess-service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-mrfparams-service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server
obremo-mrfpaymenttxn-service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-statictype-service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server

### 4.3 Steps to Create Datasource

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

## 4.4 Additional Datasource Mapping

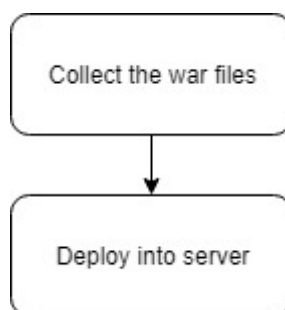
As part of OBREMO 14.4 Patch set, flyway jndi changes are incorporated. In order to deploy the services successfully, map the following data source to all the newly created managed servers for OBREMO.

Data source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Servicing Managed Server,Retail Process Managed Server,Party Managed Server
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	Servicing Managed Server,Retail Process Managed Server,Party Managed Server
SMS	jdbc/sms	Servicing Managed Server,Retail Process Managed Server,Party Managed Server
PLATOBATCH	jdbc/PLATOBATCH	Retail Process Managed Server
COMMON CORE	jdbc/CMNCORE	Servicing Managed Server,Retail Process Managed Server,Party Managed Server

## 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. The provided archive names are for reference purpose. Refer to the exact archive names available as a part of release.

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

Application	Archive name	OSDC path	Targets
Branch Common Service	obremo-srv-bcn-branchcommon-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-bcn-branchcommon-services\APP	Servicing Managed Server
Adapter Service	obremo-srv-adp-adapter-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-adp-adapter-services\APP	Servicing Managed Server
Cash Services	obremo-srv-cas-cash-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-cas-cash-services\APP	Servicing Managed Server
Machine Learning Processing	obremo-srv-cmn-ml-processing-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-cmn-ml-processing\APP	Servicing Managed Server
Common Transaction Service	obremo-srv-cmn-transaction-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-cmn-transaction-services\APP	Servicing Managed Server
Customer Service	obremo-srv-cus-customer-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-cus-customer-services\APP	Servicing Managed Server
Payment Service	obremo-srv-pay-payment-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-pay-payment-services\APP	Servicing Managed Server
Projection Services	obremo-srv-prj-projection-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-prj-projection-services\APP	Servicing Managed Server
Term Deposit Service	obremo-srv-tds-term-deposit-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-srv-tds-term-deposit-services\APP	Servicing Managed Server
Mail Poller Service	cmc-fc-ai-ml-services-5.0.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\cmc-fc-ai-ml-services\APP	Common Core Server
RPM Maintenance Services	obremo-rpm-maintenance-services-5.2.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-rpm-maintenance-services\APP	Retail Process Managed Server
RPM Process Driver	obremo-rpm-process-driver-services-5.3.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-rpm-process-driver-services\APP	Retail Process Managed Server
RPM Business Process	obremo-rpm-businessprocess-services-5.3.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-rpm-businessprocess-services\APP	Retail Process Managed Server
RPM Business Product details	obremo-rpm-businessproductdetails-services-5.3.0.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-rpm-businessproductdetails-services\APP	Retail Process Managed Server
RPM Common Applicant	obremo-rpm-cmn-applicantservices-5.30.war	{ <b>unzip the file</b> }OBREMO_SERVICES\obremo-rpm-cmn-applicantservices\APP	Retail Process Managed Server

Application	Archive name	OSDC path	Targets
RPM Host Services	obremo-rpm-cmn-hostservices-5.3.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\ obremo-rpm-cmn-hostservices\APP	Retail Process Managed Server
RPM ScoreCard	obremo-rpm-cmn-scorecardservices-5.3.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\ obremo-rpm-cmn-scorecardservices\APP	Retail Process Managed Server
RPM Loan Applicant Services	obremo-rpm-lo-loanapplications-5.3.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\obremo-rpm-lo-loanapplications\APP	Retail Process Managed Server
RPM Savings (CASA) Services	obremo-rpm-sav-account-service-5.3.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\obremo-rpm-sav-account-service\APP	Retail Process Managed Server
RPM TD Services	obremo-rpm-term-deposit-service-5.0.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\obremo-rpm-term-deposit-service\APP	Retail Process Managed Server
RPM Batch Service	obremo-rpm-batch-services-5.0.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\ obremo-rpm-batch-services\APP	Retail Process Managed Server
RPM PROJECTION Service	obremo-rpm-projection-services-5.0.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\ obremo-rpm-projection-services\APP	Retail Process Managed Server
SRV Common Utils Services	obremo-srv-cmn-utils-services-5.3.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\obremo-srv-cmn-utils-services\APP	Servicing Managed Server
SRV Business Process Service	obbrn-srv-biz-businessprocess-services-5.6.0.war	{ <b>unzip the file</b> } OBREMO_SERVICES\obbrn-srv-biz-businessprocess-services\APP	Servicing Managed Server
ITALY Localisation Cancel MAV batch Service*	obremo-batch-cancelmavbatch-extended-services-14.0.1.war	{ <b>unzip the file</b> } OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of6.zip\APP	Servicing Managed Server
ITALY Localisation Future MAV batch Service*	obremo-batch-futuremavprocess-extended-services-14.0.1	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of6.zip\APP	Servicing Managed Server
ITALY Localisation Block MAV Service*	obremo-blockmavnos-service-5.1.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of6.zip\APP	Servicing Managed Server
ITALY Localisation Circular Cheque Service*	obremo-circularchq-service-5.6.0*	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of6.zip\APP	Servicing Managed Server



Application	Archive name	OSDC path	Targets
ITALY Localisation End Teller Large Denom Service*	obremo- endtellerlargedenom- service-1.0.3	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server
ITALY Localisation Issue MAV Service*	obremo-issuemav- service-5.4.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server
ITALY Localisation MAV batch Process Service*	obremo- mavbatchprocess- service-5.4.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server
ITALY Localisation MRF parameter maintenance Service*	obremo-mrfparams- service-5.4.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server
ITALY Localisation MRFA/MRFC transaction Service*	obremo-mrfpaymenttxn- service-5.4.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server
ITALY Localisation Static Type LOV Service*	obremo-statictype- service-5.6.0	OBREMO_SERVICES\ 31831379_ITALY_14.4.0.0.4_6of 6.zip\APP	Servicing Managed Server

**NOTE:** ITALY localization specific service war should be deployed only if it is a ITALY localization implementation.

### 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**.

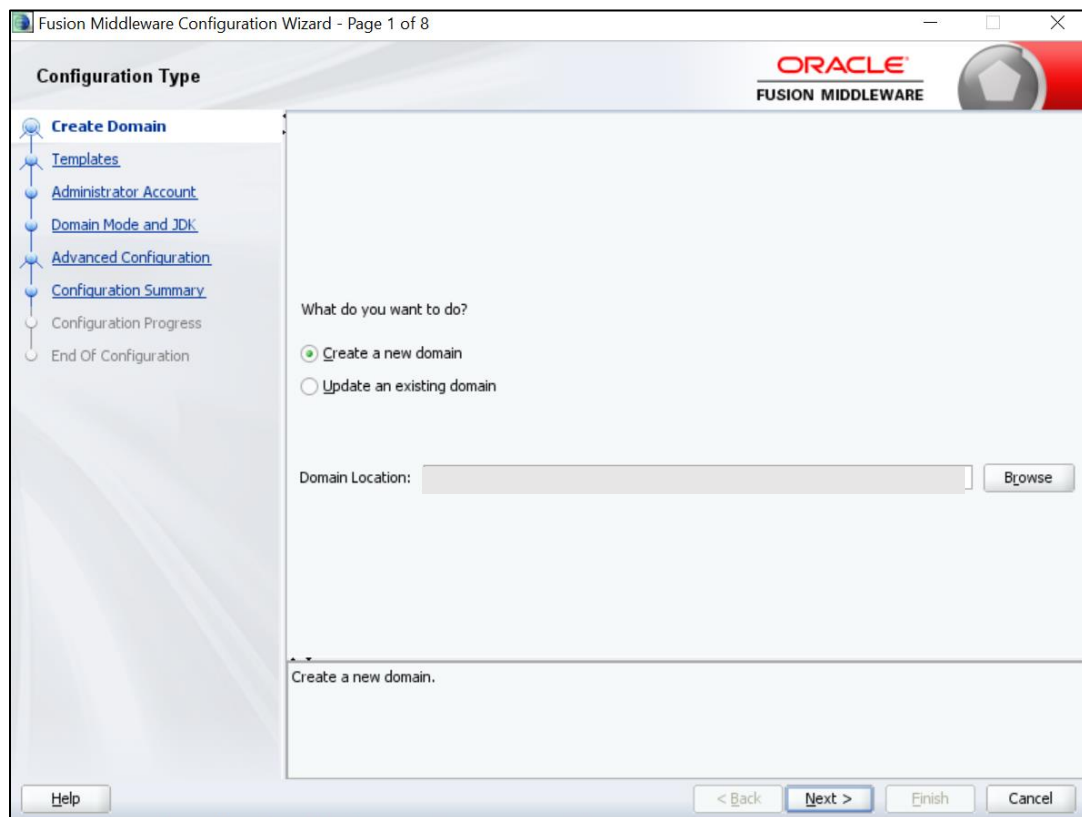
# 8. Retail Operations UI Domain and Cluster Configuration

## 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)

1. Click **Create Domain** tab, and select **Create a new domain** option. Specify the domain location.



2. On **Administration Server** screen, specify the server details, and click **Next**.

The screenshot shows the Oracle Fusion Middleware Configuration Wizard, Page 6 of 16, titled "Administration Server". The interface includes a navigation pane on the left with the following steps: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, **Administration Server** (selected), Node Manager, Managed Servers, Clusters, Server Templates, Machines, Virtual Targets, Partitions, Configuration Summary, Configuration Progress, and End Of Configuration. The main configuration area contains the following fields:

- Server Name: AdminServer
- Listen Address: All Local Addresses
- Listen Port: 9900
- Enable SSL:
- SSL Listen Port:

At the bottom of the configuration area, a note states: "Port number must be between 1 and 65535, and different from SSL listen port and coherence port." The bottom of the window features a "Help" button on the left and "< Back", "Next >", "Finish", and "Cancel" buttons on the right.

3. On **Managed Servers** screen, add entry for managed server, and click **Next**.

**Managed Servers**

ORACLE  
FUSION MIDDLEWARE

+ Add Clone Delete Discard Changes

Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port
ManagedServer_1	All Local Addresses	9903	<input checked="" type="checkbox"/>	Disabled

Help < Back Next > Finish Cancel

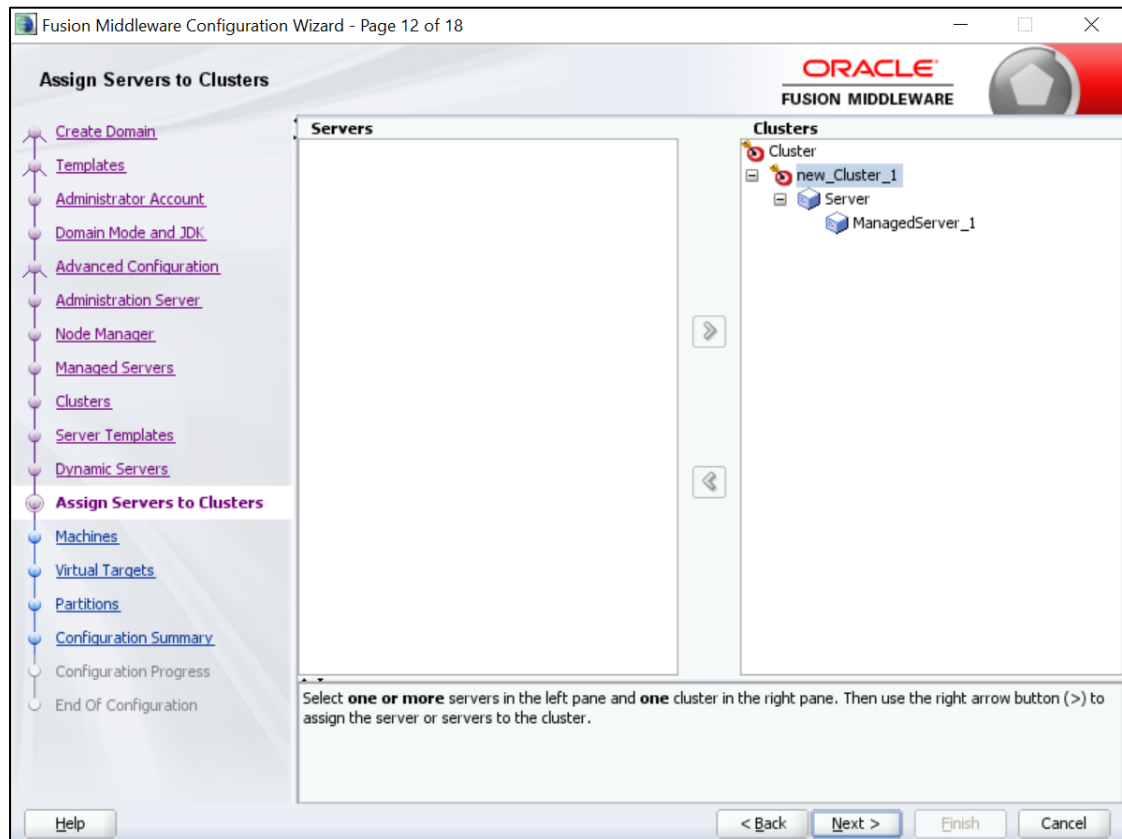
4. On **Clusters** screen, add entry for cluster, and click **Next**.

The screenshot shows the 'Clusters' configuration screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a navigation tree with the following items: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, Administration Server, Node Manager, Managed Servers, **Clusters** (selected), Server Templates, Dynamic Servers, Assign Servers to Clusters, Machines, Virtual Targets, Partitions, Configuration Summary, Configuration Progress, and End Of Configuration. The main area displays a table with the following data:

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
new_Cluster_1			0	0

Buttons at the top of the table area include '+ Add', 'X Delete', and 'Discard Changes'. At the bottom of the wizard window are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. The Oracle logo and 'FUSION MIDDLEWARE' text are visible in the top right corner.

5. On **Assign Server to Cluster** screen, assign the required servers, and click **Next**.





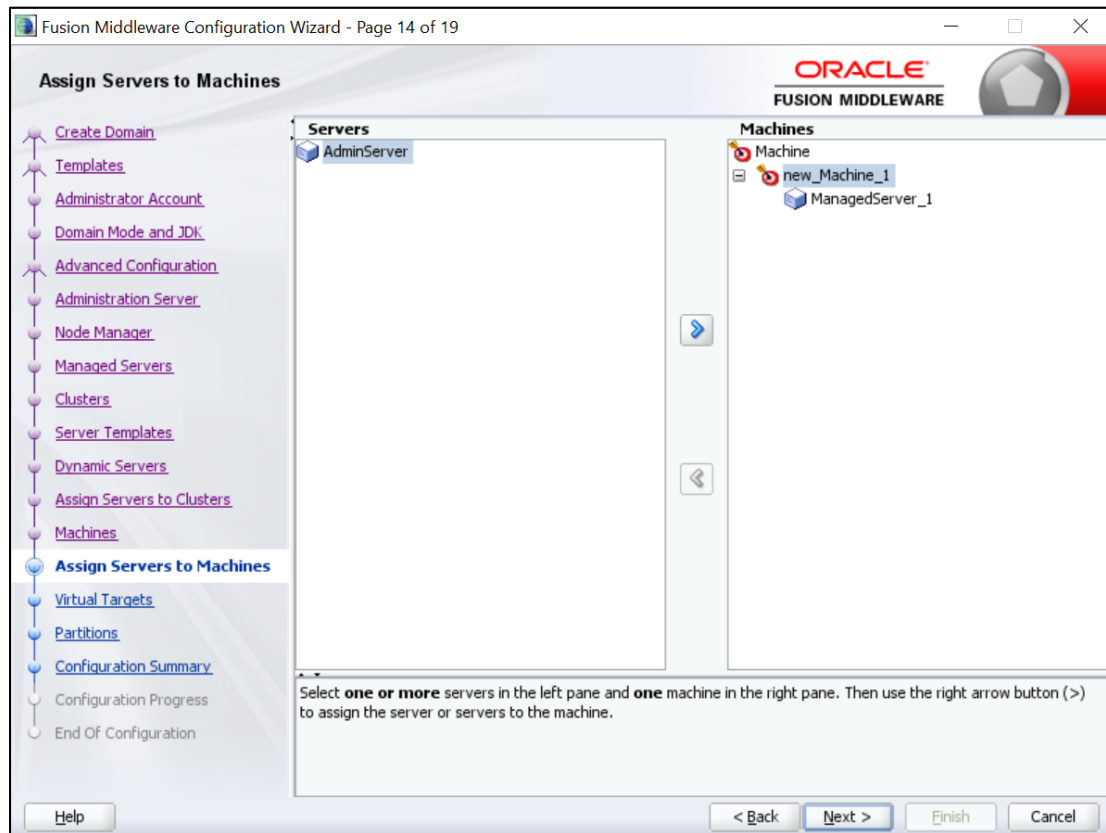
6. On **Machines** screen, add entry for the machine, and click **Next**.

The screenshot shows the 'Machines' screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a navigation tree with the following items: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, Administration Server, Node Manager, Managed Servers, Clusters, Server Templates, Dynamic Servers, Assign Servers to Clusters, **Machines** (selected), Assign Servers to Machines, Virtual Targets, Partitions, Configuration Summary, Configuration Progress, and End Of Configuration. The main area shows a 'Machine' tab with 'Unix Machine' selected. There are '+ Add' and 'X Delete' buttons, and a 'Discard Changes' button. A table lists the machine entries:

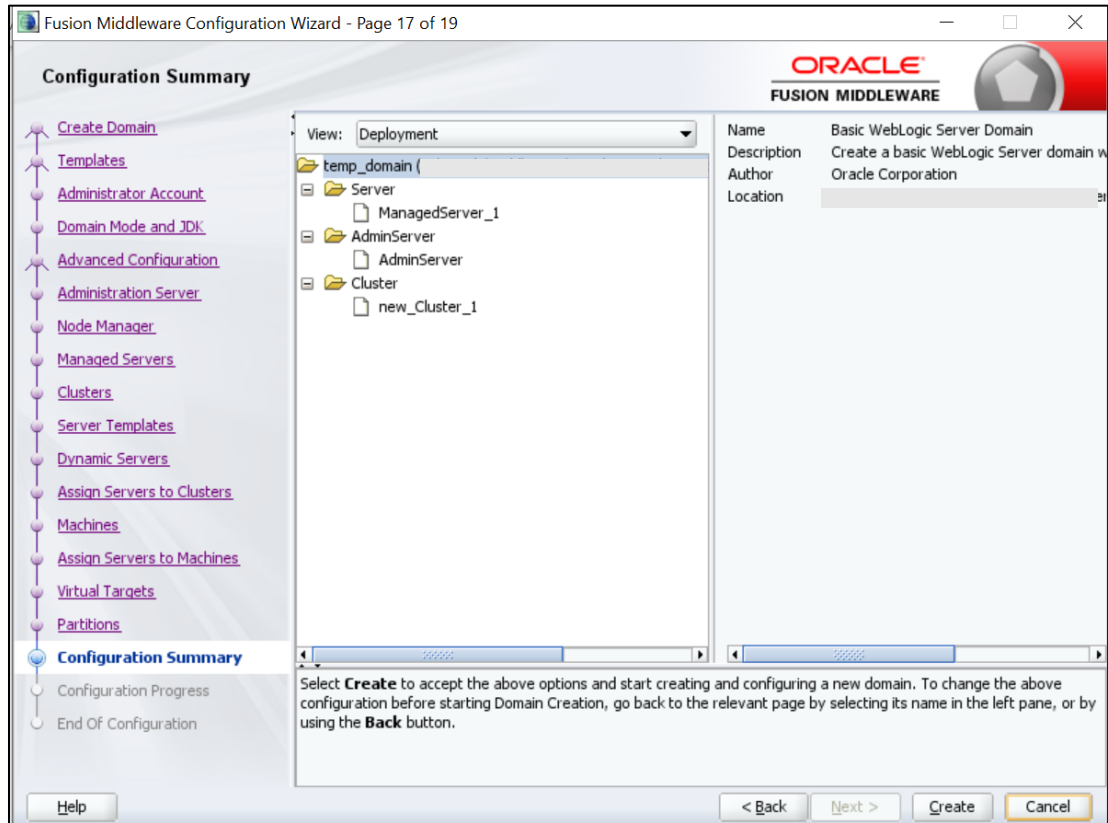
Name	Node Manager Listen Address	Node Manager Listen Port
new_Machine_1	localhost	5556

At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. A 'Help' button is located at the bottom left.

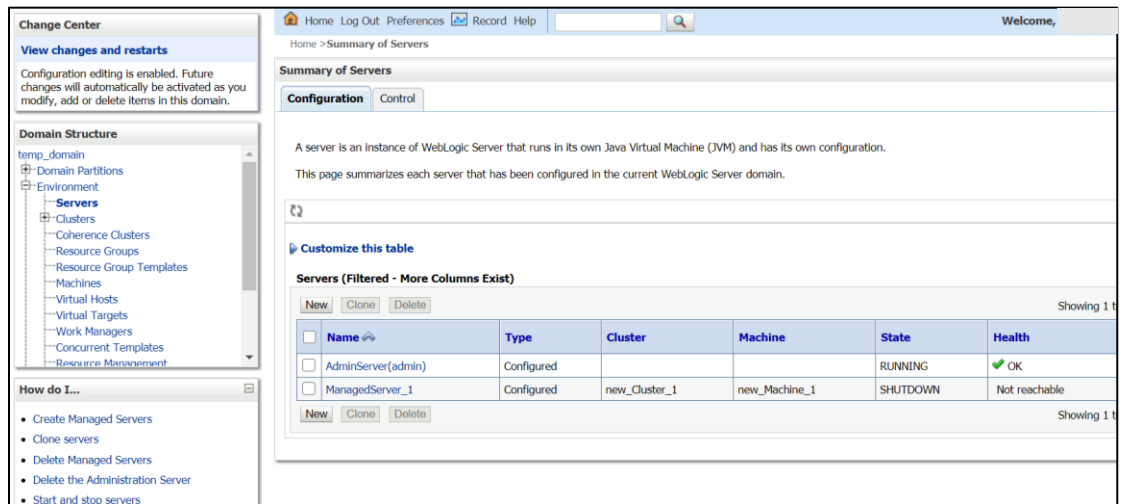
7. On **Assign Server to Machines** screen, assign the required machine, and click **Next**.



- On **Configuration Summary** screen, and click **Create** to configure a new domain.



- Click **Servers** tab, select **Configuration**, and verify the configuration details of server.



- Click **Clusters** tab, and verify the configuration details of cluster.

The screenshot shows the Oracle WebLogic Administration Console interface. On the left, the 'Domain Structure' tree is visible with 'Clusters' selected. The main content area is titled 'Summary of Clusters' and contains a table of clusters. The table has the following columns: Name, Cluster Address, Cluster Messaging Mode, Migration Basis, Default Load Algorithm, Replication Type, and Cluster Broadcast Channel. A single cluster named 'new\_Cluster\_1' is listed with a 'Unicast' messaging mode and 'Database' migration basis.

- Click **Machines** tab, and verify the configuration details of machine.

The screenshot shows the Oracle WebLogic Administration Console interface. On the left, the 'Domain Structure' tree is visible with 'Machines' selected. The main content area is titled 'Summary of Machines' and contains a table of machines. The table has the following columns: Name and Type. A single machine named 'new\_Machine\_1' is listed with a 'Machine' type.

## 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.

Home > Summary of Servers > Summary of Clusters > Summary of Servers > Summary of Machines > Summary of Servers

**View changes and restarts**  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
│ └─ Servers  
│ └─ Clusters  
│ └─ Coherence Clusters  
│ └─ Resource Groups  
│ └─ Resource Group Templates  
│ └─ Machines  
│ └─ Virtual Hosts  
│ └─ Virtual Targets  
│ └─ Work Managers  
│ └─ Concurrent Templates  
└─ Resource Management

**How do I...**

- Create Managed Servers
- Clone servers
- Delete Managed 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)

New Clone Delete Showing 1 to 2 of 2 Previous | Next

<input type="checkbox"/>	Name ↕	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured			RUNNING	OK	9900
<input type="checkbox"/>	ManagedServer_1	Configured	new_Cluster_1	new_Machine_1	SHUTDOWN	Not reachable	9903

New Clone Delete Showing 1 to 2 of 2 Previous | Next

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
│ └─ Servers  
│ └─ Clusters  
│ └─ Coherence Clusters  
│ └─ Resource Groups  
│ └─ Resource Group Templates  
│ └─ Machines  
│ └─ Virtual Hosts  
│ └─ Virtual Targets  
│ └─ Work Managers  
│ └─ Concurrent Templates  
└─ Resource Management

**Summary of Clusters**

This page summarizes the clusters that have been configured in the current WebLogic Server domain. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability.

**Customize this table**

Clusters (Filtered - More Columns Exist)

New Clone Delete Showing 1 to 1 of 1 Previous | Next

<input type="checkbox"/>	Name ↕	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers
<input type="checkbox"/>	new_Cluster_1		Unicast	Database	Round Robin	(None)		ManagedServer_1

New Clone Delete Showing 1 to 1 of 1 Previous | Next

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
│ └─ Servers  
│ └─ Clusters  
│ └─ Coherence Clusters  
│ └─ Resource Groups  
│ └─ Resource Group Templates  
└─ Machines  
└─ Virtual Hosts  
└─ Virtual Targets  
└─ Work Managers  
└─ Concurrent Templates  
└─ Resource Management

**Summary of Machines**

A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers. This page displays key information about each machine that has been configured in the current WebLogic Server domain.

**Customize this table**

Machines

New Clone Delete Showing 1 to 1 of 1 Previous | Next

<input type="checkbox"/>	Name ↕	Type
<input type="checkbox"/>	new_Machine_1	Machine

New Clone Delete Showing 1 to 1 of 1 Previous | Next

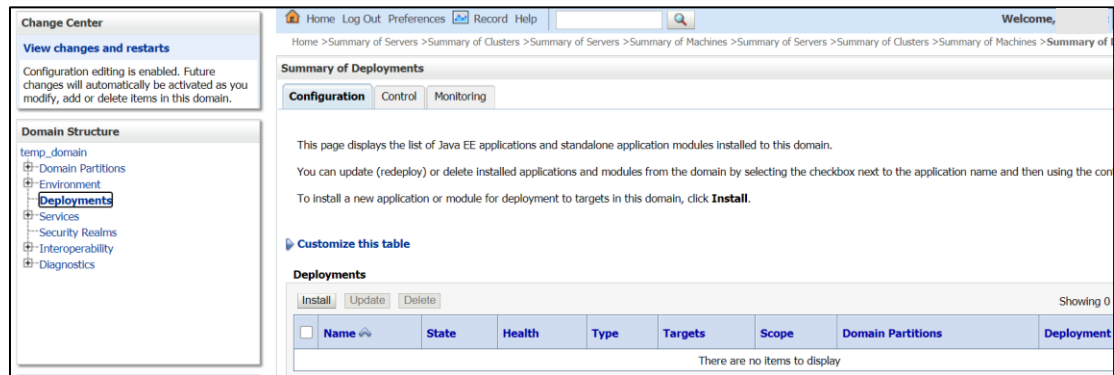
# 9. Retail Operation User Interface Deployments

## 9.1 Steps to deploy as application

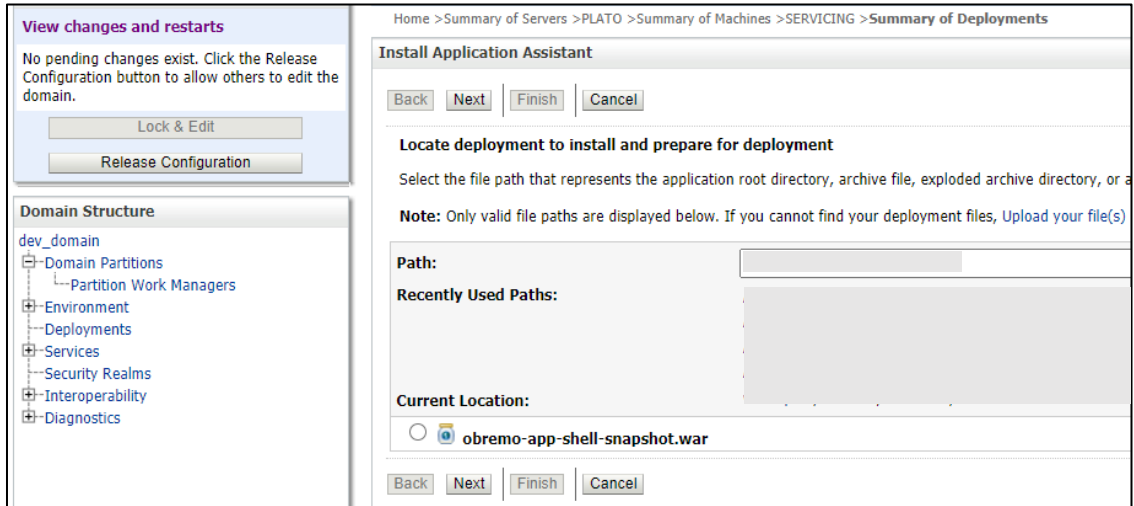
**NOTE:** Server names, Domain names need not to be same as this doc provides.

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:

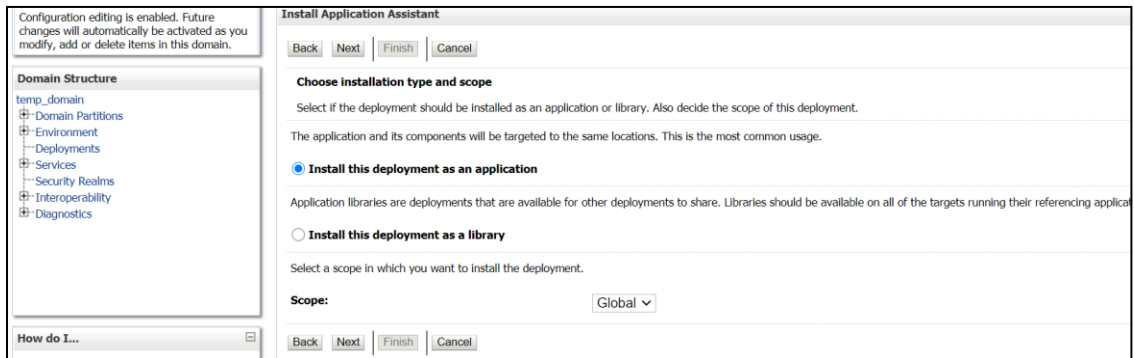
1. Extract the zip file under **UI** folder.
2. Open **app-shell\common\js\util\config\config.json** file change **apiGatewayURL** to point plato-api-gateway URL.
3. Copy app-shell folder and paste it to your server. E.g. scratch/deployment.
4. Open Weblogic console and navigate to the **Deployments**.



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

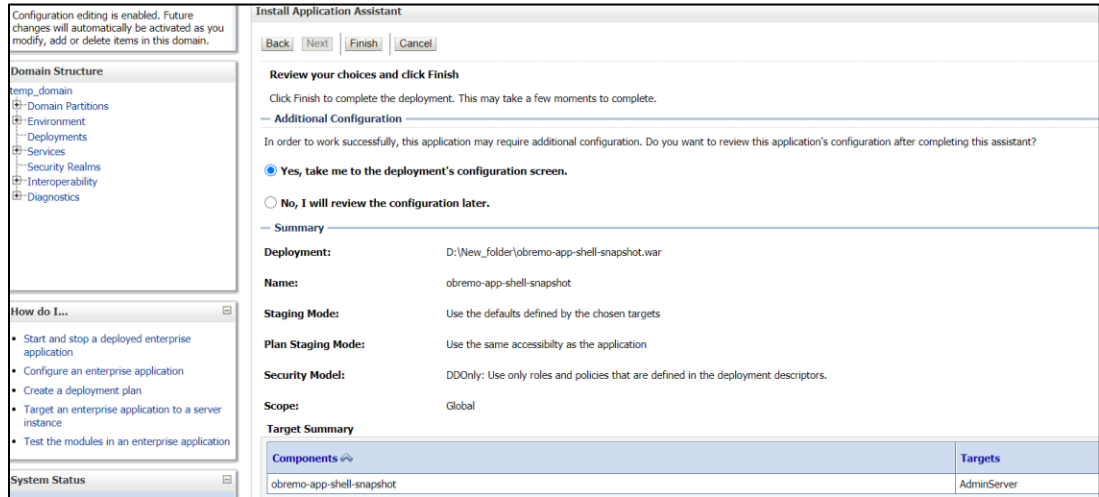


6. Check the option install this deployment as an application option and click **Next**.

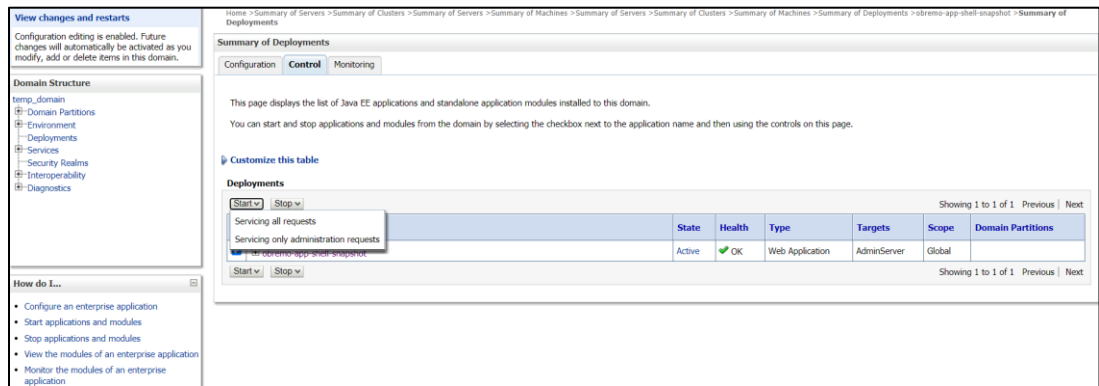


7. Name the deployment as app\_shell and click **Next**.

- Check the option **Yes, take me to the deployment's configuration screen** and click **Finish**.



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



- Verify state is Active. If yes, open the URL in this format:  
<http://HostName:PortNo/obremo-app-shell-14.4.0.0/>

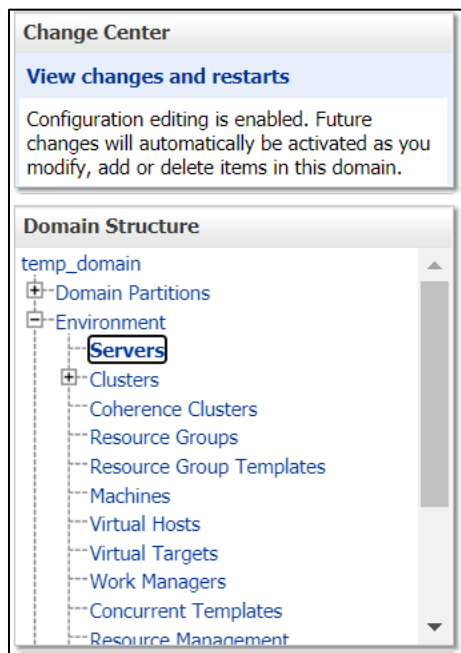


## 10.Restarts and Refresh

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.

The screenshot shows the 'Summary of Servers' page in the 'Control' tab. The page title is 'Summary of Servers'. Below the title, there is a message: '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.' Below this message is a search bar. The main content area is titled 'Servers (Filtered - More Columns Exist)' and contains a table with the following data:

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)		RUNNING	None
<input type="checkbox"/> ManagedServer_1	new_Machine_1	RUNNING	TASK COMPLETED

At the bottom of the table, there are buttons for 'Start', 'Resume', 'Suspend', 'Shutdown', and 'Restart SSL'. The page also shows 'Showing 1 to 2 of 2' and 'Previous | Next' navigation links.

View changes and restarts  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure  
temp\_domain  
- Domain Partitions  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Resource Groups  
- Resource Group Templates  
- Machines  
- Virtual Hosts  
- Virtual Targets  
- Work Managers  
- Concurrent Templates  
- Resource Management

How do I...  
- Start and stop servers  
- Start Managed Servers from the Administration Console

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 2 of 2 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
ManagedServer_1	new_Machine_1	RUNNING	TASK COMPLETED

Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

View changes and restarts  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure  
temp\_domain  
- Domain Partitions  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Resource Groups  
- Resource Group Templates  
- Machines  
- Virtual Hosts  
- Virtual Targets  
- Work Managers  
- Concurrent Templates  
- Resource Management

How do I...  
- Start and stop servers  
- Start Managed Servers from the Administration Console

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 2 of 2 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
ManagedServer_1	new_Machine_1	SHUTDOWN	TASK COMPLETED

Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

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

View changes and restarts  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure  
temp\_domain  
- Domain Partitions  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Resource Groups  
- Resource Group Templates  
- Machines  
- Virtual Hosts  
- Virtual Targets  
- Work Managers  
- Concurrent Templates  
- Resource Management

How do I...  
- Start and stop servers  
- Start Managed Servers from the Administration Console

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 2 of 2 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
ManagedServer_1	new_Machine_1	STARTING	TASK IN PROGRESS(7 seconds)

Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

View changes and restarts  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure  
temp\_domain  
- Domain Partitions  
- Environment  
- Servers  
- Clusters  
- Coherence Clusters  
- Resource Groups  
- Resource Group Templates  
- Machines  
- Virtual Hosts  
- Virtual Targets  
- Work Managers  
- Concurrent Templates  
- Resource Management

How do I...  
- Start and stop servers  
- Start Managed Servers from the Administration Console

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 2 of 2 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
ManagedServer_1	new_Machine_1	RUNNING	TASK COMPLETED

Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

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

**View changes and restarts**

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**

- temp\_domain
- [-] Domain Partitions
- [-] Environment
- [-] **Deployments**
- [-] Services
- [-] Security Realms
- [-] Interoperability
- [-] Diagnostics

**How do I...**

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application

Home > Summary of Deployments > obremo-app-shell-snapshot > Summary of Deployments > Summary of Servers > Summary of Machines > new\_Machine\_1 > Summary of Servers > Summary of Deployments > obremo-app-shell-snapshot > Summary of Deployments

**Summary of Deployments**

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Install Update Delete

	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	obremo-app-shell-snapshot	Active	OK	Web Application	ManagedServer_1	Global		100

Showing 1 to 1 of 1 Previous Next

Install Update Delete

Showing 1 to 1 of 1 Previous Next

---

# 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	OBPY-PARTY-AMENDMENT-PROCESSFLOW	None
3	OBPY-PARTY-CORP-ONBOARDING-PROCESSFLOW	None
4	CURRENTACCOUNT	None
5	EDUCATIONLOAN	None
6	HOMELOAN	None
7	INITIATION	None
8	PERSONALLOAN	None
9	SAVINGSACCOUNT	None
10	VEHICLELOAN	None
11	HOSTORCHESTRATOR	None
12	CASAHOSTORCH	None
13	TDACCOUNT	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

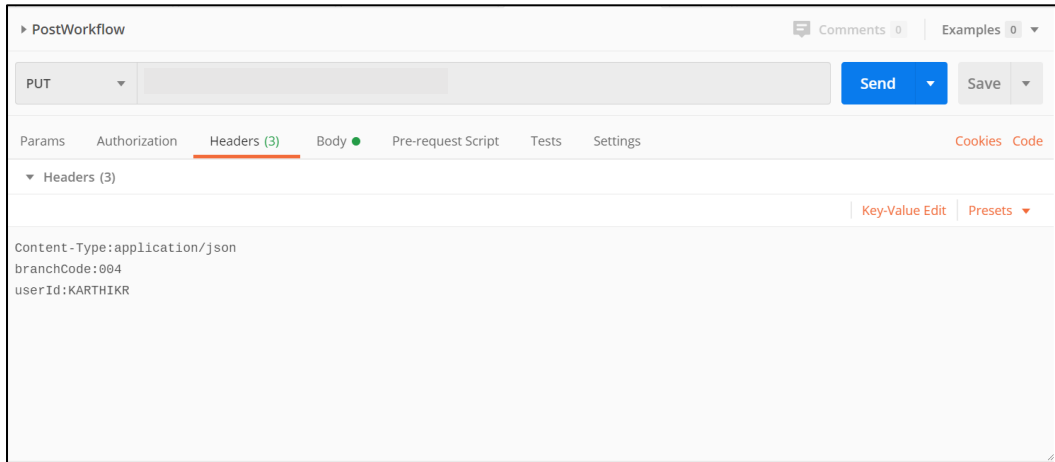
## 11.3 Steps to Deploy Conductor Process

**NOTE:** Server names, Domain names need not to be same as this doc provides.

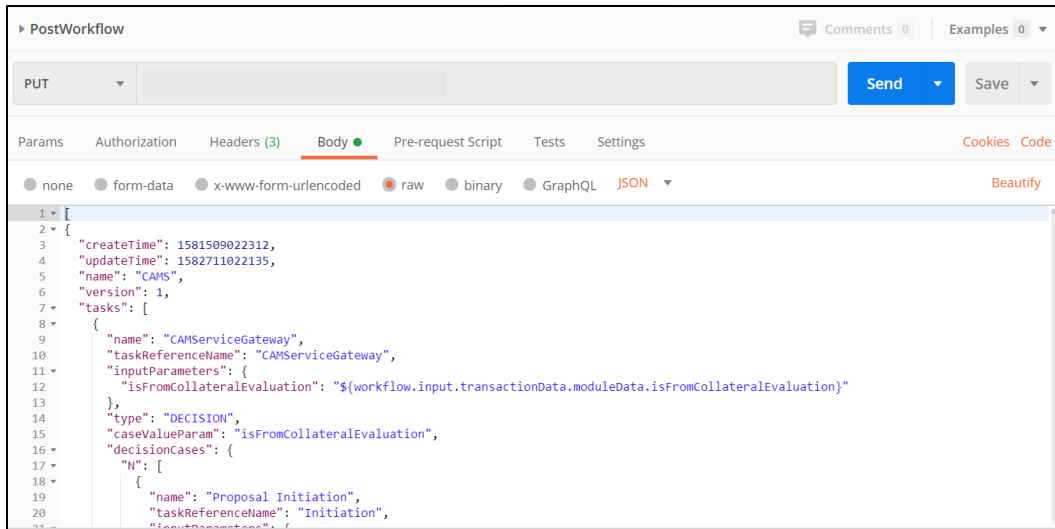
Steps to Deploy a process remains the same for all the process files:

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.

The screenshot displays an API client interface. At the top, a dropdown menu is set to 'PUT'. To the right are 'Send' and 'Save' buttons. The main area shows a JSON request body with the following structure:

```
1022  {"inputParameters": [  
1023    "partyId",  
1024    "applicationNumber",  
1025    "customerName"  
1026  ],  
1027  "outputParameters": {  
1028    "rejectionRemarks": "${humantask_apprv_corp_loan.output.rejectionRemarks}",  
1029    "loanGrantStatus": "${humantask_apprv_corp_loan.output.loanGrantStatus}",  
1030    "emailStatus": "${CNFRM_CORP_LOAN.output.emailStatus}"  
1031  },  
1032  "schemaVersion": 2,  
1033  "restartable": true,  
1034  "workflowStatusListenerEnabled": false  
1035  }  
1036  ]
```

Below the request body, the response status is '204 No Content', with a time of '309ms' and a size of '281 B'. A 'Save Response' button is visible. The response body is currently empty, and the interface shows tabs for 'Pretty', 'Raw', 'Preview', and 'Visualize', with 'JSON' selected.

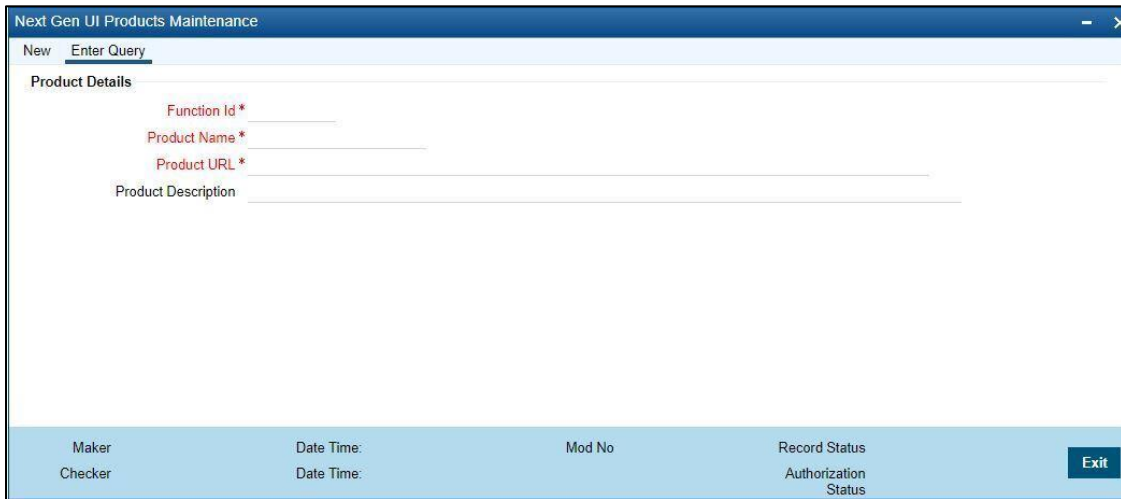
# 12.Launching Retail Operations from UBS

## 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	<a href="https://FCUBShostname:FCUBSport/FCJNeoWeb/ValidationService/FCNonceValidation/validate">https://FCUBShostname:FCUBSport/FCJNeoWeb/ValidationService/FCNonceValidation/validate</a>

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

---

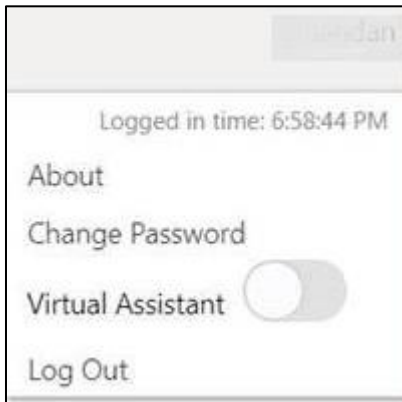
## 13.Oracle Digital Assistant Configuration

### 13.1 Introduction

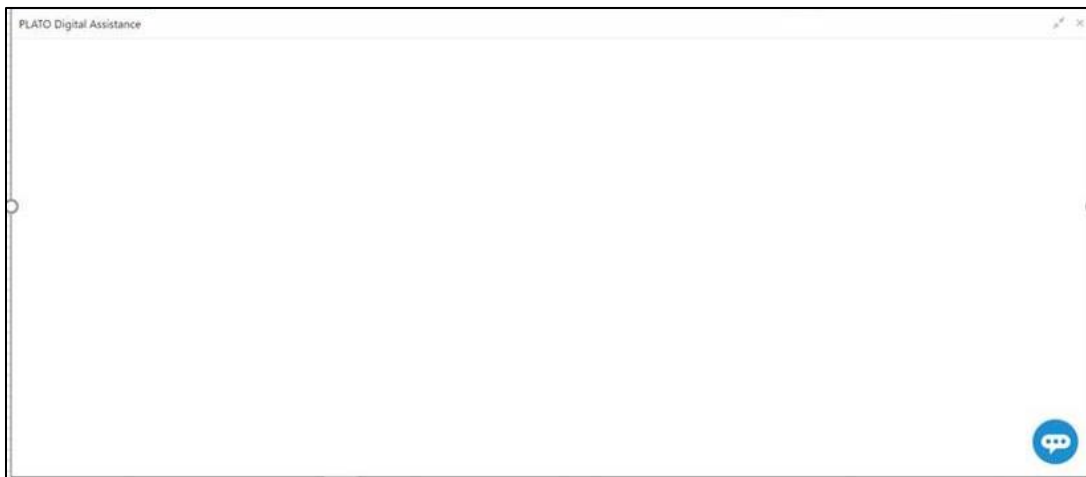
Retail Operations has to interface with Oracle Digital Assistance(ODA) for Chatbot use cases. To address above requirement, the Plato Digital Assistant wizard CCA is having configuration to connect to ODA. This wizard contain enabling of Oracle Digital Assistant's Client SDK for JavaScript to add live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

### 13.2 Plato Setup

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

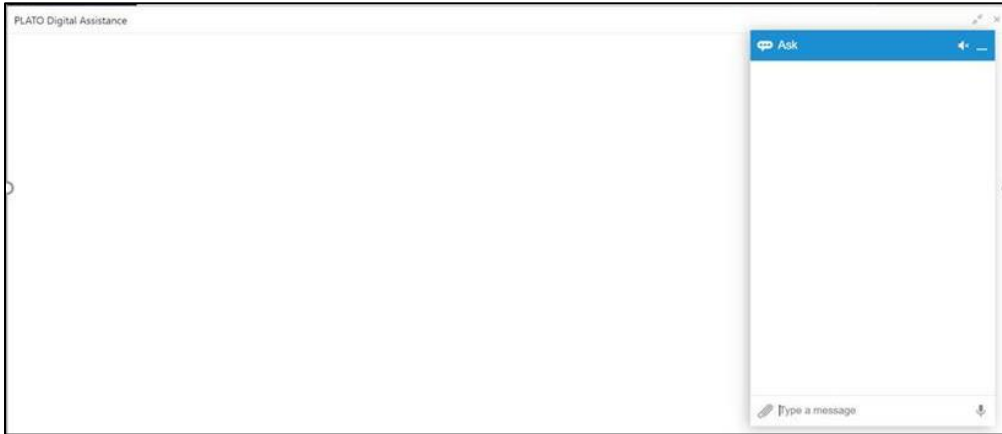


A new wizard will be launched with initialization of web-sdk.





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	<a href="https://hostname:platodiscoveryport/">https://hostname:platodiscoveryport/</a>

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



## Retail Operations Installation Guide

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