Installation Guide

Oracle Banking Branch

Release 14.5.0.1.0

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Table of Contents

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1. Preface

1.1 Introduction

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

1.2 Audience

This document is intended for WebLogic admin or ops-web team who are responsible for installing the banking products of Oracle Financial Services Software Limited.

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 Oracle Banking Branch services, UI, process flow in same order:

Oracle Banking Branch Services

1. obremo-srv-bcn-branchcommon-services

2. obremo-srv-adp-adapter-services

3. obremo-srv-cas-cash-services

4. obremo-srv-cmn-ml-processing

5. obremo-srv-ext-common-txn

6. obremo-srv-cmn-transaction-services

7. obremo-srv-cus-customer-services

8. obremo-srv-pay-payment-services

9. obremo-srv-prj-projection-services

10. obremo-srv-tds-term-deposit-services

11. obremo-srv-cmn-utils-service

12. obbrn-srv-biz-businessprocess-services

13. obbrn-cmn-businessproductdetails-services

14. obbrn-cmn-process-driver-services

15. obremo-csr-cus-customer-services

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Along with the above war files, only if it is an ITALY localization implementation, deploy the war files mentioned below:

1. obremo-batch-cancelmavbatch-extended-services
2. obremo-batch-futuremavprocess-extended-services
3. obremo-blockmavnos-service
4. obremo-cirularchq-service
5. obremo-endtellerlargedenom-service
6. obremo-issuemav-service
7. obremo-mavbatchprocess-service
8. obremo-mrfparams-service
9. obremo-mrfpaymenttxn-service
10. obremo-statictype-service
11. obremo-srv-batch-event-publisher
12. obremo-srv-batch-event-consumer

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 file mentioned below:

1. obbrn-component-server

ITALY Specific Application

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

Process Workflow

1. ACCOUNTADDRESSUPDATE
2. CUSTOMERADDRESSUPDATE
3. CUSTOMERCONTACTUPDATE
4. CMC_CHARGES_Consumer
5. PLATOCORE_Consumer
6. Branch Transfer
7. Card Status
8. CASA Statement
9. CASA Status
10. JointHolder

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11. Modify SI

12. Nominee Update

13. SI Transfer

14. Stop Cheque

15. Sweep In to CASA

16. Sweep Out CASA

17. TD Instruction

18. TemporaryOverdraft

19. Account Statement Frequency

20. Activate Dormant

21. Address Update

22. Amount Block

23. Cheque Book Request

1.5 <u>Related documents</u>

For more information, refer to the following documents:

- Getting Started User Guide
- 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 Oracle Banking Branch 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 Oracle Banking Branch 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.

2.2.1 Placeholder Update

The placeholders need to be configured in the **setUserOverrides.sh** file for Oracle Banking Branch installation. This topic provides the keys and their respective placeholder values for various services. To update the placeholders for Oracle Banking Microservices Architecture services, refer to **Placeholder Update for Oracle Banking Microservices Architecture Services** section in ANNEXURE-1.

The keys and placeholder values for obremo-srv-prj-projection-services are as follows:

Key	Placeholder
spring.cloud.stream.kafka.binder.txn.zkNodes	plato.eventhub.txn.zookeper.hosts
spring.cloud.stream.kafka.binder.txn.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.tilltot.zkNodes	plato.eventhub.tilltot.zookeper.hosts
spring.cloud.stream.kafka.binder.tilltotDenom.brokers	plato.eventhub.tilltotDenom.broker.host
spring.cloud.stream.kafka.binder.tilltot.brokers	plato.eventhub.tilltot.broker.hosts
spring.cloud.stream.kafka.binder.tilltotDenom.zkNodes	plato.eventhub.tilltotDenom.zookeper.hosts
spring.cloud.stream.kafka.binder.casaBinder.brokers	plato.eventhub.casaBinder.broker.hosts
spring.cloud.stream.kafka.binder.casaBinder.zkNodes	plato.eventhub.casaBinder.zookeper.hosts

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The keys and placeholder values for obremo-srv-cmn-utils-services are as follows:

Key	Placeholder
plato.eventhub.kafka.brokers	plato.eventhub.broker.hosts
plato.eventhub.zk.nodes	plato.eventhub.zookeper.hosts
poller.fixedRate	obremo-srv-cmn-utils-services.poller.fixedRate
poller.initialDelay	obremo-srv-cmn-utils-services.poller.initialDelay
pollingEmail	obremo-srv-cmn-utils-services.pollingEmail
emailServerPort	obremo-srv-cmn-utils-services.emailServerPort
emailServerHost	obremo-srv-cmn-utils-services.emailServerHost
pollingFrequency	obremo-srv-cmn-utils-services.pollingFrequency
emailPassword	obremo-srv-cmn-utils-services.emailPassword
plato.eventhub.oflo.zk.nodes	plato.eventhub.oflo.zookeper.hosts
plato.eventhub.oflo.kafka.brokers	plato.eventhub.oflo.broker.hosts
spring.cloud.stream.kafka.binder.txn.zkNodes	plato.eventhub.txn.zookeper.hosts
spring.cloud.stream.kafka.binder.txn.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.tilltot.zkNodes	plato.eventhub.tilltot.zookeper.hosts
spring.cloud.stream.kafka.binder.tilltotDenom.brokers	plato.eventhub.tilltotDenom.broker.host
spring.cloud.stream.kafka.binder.tilltot.brokers	plato.eventhub.tilltot.broker.hosts
spring.cloud.stream.kafka.binder.tilltotDenom.zkNodes	plato.eventhub.tilltotDenom.zookeper.hosts

The keys and placeholder values for Plato-alerts-management-services are as follows. This setup is necessary to enable e-mail alerts.

Key	Placeholder
plato.eventhub.kafka.brokers	plato.eventhub.broker.hosts
plato.eventhub.zk.nodes	plato.eventhub.zookeper.hosts
server.port	cmc-deprecation-service.server.port

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Key	Placeholder
batchServer.protocol	apigateway.protocol
EMAIL.SMTP_HOST	plato.alerts.email.smtp.host
EMAIL.SMTP_OUT_PORT	plato.alerts.email.smtp.out.port
EMAIL.AUTH	plato.alerts.email.auth
EMAIL.SOCKETFACTORY_PORT	plato.alerts.email.socketfactory.port

The keys and placeholder values for plato-feed-services are as follows:

Key	Placeholder
EMAIL.PASSWORD	plato.feed.email.password
EMAIL.USER_ID	plato.feed.email.userId
SMS.userId	plato.feed.sms.userId
SMS.branchCode	plato.feed.sms.branchCode
SMS.appId	plato.feed.sms.appId
SMS.multiEntityAdmin	plato.feed.sms.multiEntityAdmin
EMAIL.SMTP_HOST	plato.feed.email.smtp.host
EMAIL.SMTP_OUT_PORT	plato.feed.email.smtp.out.port
EMAIL.AUTH	plato.feed.email.auth
EMAIL.SOCKETFACTORY_PORT	plato.feed.email.socketfactory.port

The keys and placeholder values for cmc-fc-ai-ml-services are as follows:

Key	Placeholder
pollingEmail	cmc-fc-ai-ml-services.pollingEmail
emailServerPort	cmc-fc-ai-ml-services.emailServerPort
emailServerHost	cmc-fc-ai-ml-services.emailServerHost
pollingFrequency	cmc-fc-ai-ml-services.pollingFrequency
pollerInitialDelay	cmc-fc-ai-ml-services.pollerInitialDelay
emailPassword	cmc-fc-ai-ml-services.emailPassword
pollingPath	cmc-fc-ai-ml-services.pollingPath

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Key	Placeholder
postingPath	cmc-fc-ai-ml-services.postingPath

The keys and placeholder values for obremo-csr-cus-customer-services are as follows:

Key	Placeholder
server.port	obremo-csr-cus-customer-services.server.port
flyway.domain.schemas	obremo-csr-cus-customer-services.schemas
flyway.domain.db.jndi	obremo-csr-cus-customer-services.jndi

The keys and placeholder values for obbrn-cmn-process-driver-services are as follows:

Key	Placeholder
server.port	obremo-csr-cus-customer-services.server.port
flyway.domain.schemas	obbrn-cmn-process-driver-services.schemas
flyway.domain.db.jndi	obbrn-cmn-process-driver-services.jndi
plato.kafka.server.url	obbrn-cmn-process-driver-services.plato.kafka.server.url

The keys and placeholder values for obbrn-cmn-businessproductdetails-services are as follows:

Key	Placeholder
server.port	obbrn-cmn-businessproductdetails-services.server.port
flyway.domain.schemas	obbrn-cmn-businessproductdetails-services.schemas
flyway.domain.db.jndi	obbrn-cmn-businessproductdetails-services.jndi
plato.service.logging.path	LOG_PATH

2.3 <u>Database Setup</u>

To setup DB for Oracle Banking Branch schema's to be created:

Service Name	Schema Required
obremo-srv-bcn-branchcommon-services	Yes (obremo-srv-bcn-branchcommon-services schema)
obremo-srv-adp-adapter-services	Yes (obremo-srv-adp-adapter-services schema)
obremo-srv-cas-cash-services	Yes (obremo-srv-cas-cash-services schema)
obremo-srv-cmn-ml-processing	No (obremo-srv-bcn-branchcommon-services schema)

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Service Name	Schema Required
obremo-srv-cmn-transaction-services	Yes (obremo-srv-cmn-transaction-services schema)
obremo-srv-cus-customer-services	Yes (obremo-srv-cus-customer-services schema)
obremo-srv-pay-payment-services	Yes (obremo-srv-pay-payment-services schema)
obremo-srv-prj-projection-services	Yes (obremo-srv-prj-projection-services schema)
obremo-srv-tds-term-deposit-services	Yes (obremo-srv-tds-term-deposit-services 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)
obbrn-cmn-businessproductdetails-services	Yes (CMNBUSPROD schema)
obbrn-cmn-process-driver-services	Yes (CMNPRODRV schema)
obremo-csr-cus-customer-services	Yes (CSRCASA schema)

2.4 Database Link Creation

Projection services from Oracle Banking Branch 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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2.5 <u>User Grants</u>

2.5.1 <u>Common Grants</u>

The following common grants are provided to the user in the Oracle Banking Branch schema:

- grant create session to PLATO;
- grant create table to PLATO;
- grant create sequence to PLATO;

2.5.2 <u>Common Core Grants</u>

The following grants are provided additionally in the COMMON CORE schema:

- grant create procedure to CMNCORE;
- grant create synonym to CMNCORE;

2.5.3 <u>Security Management System (SMS) Grants</u>

The following grants are provided additionally in the SMS schema:

- grant create synonym to SMS;
- grant create procedure to SMS;

2.5.4 <u>Transaction and Payment Grants</u>

2.5.4.1 <u>Grants</u>

Execute the following grants in TRANSACTION & PAYMENT schema by replacing the schema name:

- grant create TRIGGER to TRANSACTION;
- grant create TRIGGER to PAYMENT;

Execute the following grants in PROJECTION schema by replacing the schema name:

- grant select, insert, update on SRV_TB_BC_EJ_LOG to TRANSACTION;
- grant select, insert, update on SRV_TB_CH_TILL_TOT to TRANSACTION;
- grant select, insert, update on SRV_TB_CH_TILL_TOT_DENM to TRANSACTION;
- grant select, insert, update on SRV_TB_PJ_INSTR_DTLS to PAYMENT;

2.5.4.2 <u>Synonyms Creation</u>

Once the grants are provided, create the synonyms in TRANSACTION and PAYMENT schemas.

Transaction Schema:

- create synonym SRVS_TB_CH_TILL_TOT for PROJECTION.SRV_TB_CH_TILL_TOT;
- create synonym SRVS_TB_CH_TILL_TOT_DENM for PROJECTION.SRV_TB_CH_TILL_TOT_DENM;
- create synonym SRVS_TB_BC_EJ_LOG for PROJECTION.SRV_TB_BC_EJ_LOG;

Payment Schema:

- create synonym SRVS_TB_PJ_INSTR_DTLS for PROJECTION.SRV_TB_PJ_INSTR_DTLS;

If the schema is present in different database, create the synonyms in TRANSACTION and PAYMENT schemas.

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Transaction Schema:

- create synonym SRVS_TB_CH_TILL_TOT for SRV_TB_CH_TILL_TOT@dblink;
- create synonym SRVS_TB_CH_TILL_TOT_DENM for SRV_TB_CH_TILL_TOT_DENM@dblink;
- create synonym SRVS_TB_BC_EJ_LOG for SRV_TB_BC_EJ_LOG@dblink;

Payment Schema:

- create synonym SRVS_TB_PJ_INSTR_DTLS for SRV_TB_PJ_INSTR_DTLS@dblink;

NOTE: Once the synonyms are created, triggers need to be re-compiled.

2.5.5 View Creation Grants

In addition to the above grants provided to the user, you can add view creation grant in the PROJECTION schema as follows:

- grant create mining model to PROJECTION;
- grant create any mining model to PROJECTION;
- grant alter any mining model to PROJECTION;
- grant drop any mining model to PROJECTION;
- grant select any mining model to PROJECTION;
- grant comment any mining model to PROJECTION;
- grant audit any to PROJECTION;
- grant execute on DBMS_DATA_MINING to PROJECTION;
- grant create view to PROJECTION;
- grant create table to PROJECTION;
- grant drop table to PROJECTION;

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3. Oracle Banking Branch Services Domains Configuration

3.1 Prerequisites

1. Machine should have Java JDK has installed.
2. Oracle Fusion Middleware Infrastructure has to be installed on the machine.

   NOTE: Before proceeding with below steps, complete Oracle Banking Microservices Platform Foundation Installation Guide.

3. Steps for creating all Oracle Banking Branch domains, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

   NOTE: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide**.

3.2 Oracle Banking Branch Service Domain Creation

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

Service Name	Domain Name
obremo-srv-bcn-branchcommon-services	Oracle Banking Branch Domain
obremo-srv-cas-cash-services	Oracle Banking Branch Domain
obremo-srv-cmn-transaction-services	Oracle Banking Branch Domain
obremo-srv-pay-payment-services	Oracle Banking Branch Domain
obremo-srv-tds-term-deposit-services	Oracle Banking Branch Domain
obremo-srv-adp-adapter-services	Oracle Banking Branch Domain
obremo-srv-cmn-ml-processing	Oracle Banking Branch Domain
obremo-srv-cus-customer-services	Oracle Banking Branch Domain
obremo-srv-prj-projection-services	Oracle Banking Branch Domain
obremo-srv-cmn-utils-services	Oracle Banking Branch Domain
obbrn-srv-biz-businessprocess-services	Oracle Banking Branch Domain
obbrn-cmn-businessproductdetails-services	Oracle Banking Branch Domain
obbrn-cmn-process-driver-services	Oracle Banking Branch Domain
obremo-csr-cus-customer-services	Oracle Banking Branch Domain
obremo-batch-cancelmavbatch-extended-services*	Oracle Banking Branch Domain
obremo-batch-futuremavprocess-extended-services*	Oracle Banking Branch Domain
obremo-blockmavnos-service*	Oracle Banking Branch Domain
obremo-cirularchq-service*	Oracle Banking Branch Domain
obremo-endtellerlargedenom-service*	Oracle Banking Branch Domain

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Service Name	Domain Name
obremo-issuemav-service*	Oracle Banking Branch Domain
obremo-mavbatchprocess-service*	Oracle Banking Branch Domain
obremo-mrfparams-service*	Oracle Banking Branch Domain
obremo-mrfpaymenttxn-service*	Oracle Banking Branch Domain
obremo-statictype-service*	Oracle Banking Branch Domain
obremo-srv-batch-event-publisher*	Oracle Banking Branch Domain
obremo-srv-batch-event-consumer*	Oracle Banking Branch 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 Oracle Banking Branch 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 Oracle Banking Branch services and the steps to configure them in the server.
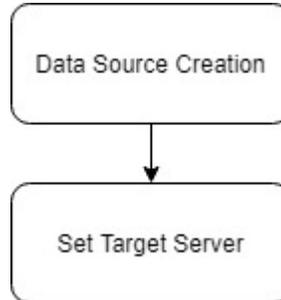
4.2 Data sources List

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
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
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-srv-cmn-utils-services	BRANCHCOMMON	jdbc/SRVBRANCHCOMMON	Servicing Managed Server
obbrn-srv-biz-businessprocess-services	BIZPROCESS	jdbc/BIZPRC	Servicing Managed Server

ORACLE

Service Name	Data source Name	Data source JNDI	Targets
obbrn-cmn-businessproductdetails-services	CMNBUSPROD	jdbc/CMNBUSPROD	Servicing Managed Server
obbrn-cmn-process-driver-services	CMNPRODRV	Jdbc/CMNPRODRV	Servicing Managed Server
obremo-csr-cus-customer-services	CSRCASA	Jdbc/CSRCASA	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
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
obremo-srv-batch-event-publisher	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-srv-batch-event-consumer	CASH	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.

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4.4 <u>Additional Datasource Mapping</u>

As part of Oracle Banking Branch, 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 Oracle Banking Branch.

Data source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Servicing Managed Server
PLATO_UI	jdbc/PLATO_UI_CONFIG	Servicing Managed Server
PLATOFEED	jdbc/PLATOFEED	Servicing Managed Server
SMS	jdbc/sms	Servicing Managed Server
COMMON CORE	jdbc/CMNCORE	Servicing Managed Server
PLATO-O	jdbc/PLATO-O	Servicing Managed Server

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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 Oracle Banking Branch application and the steps to deploy them into the server.
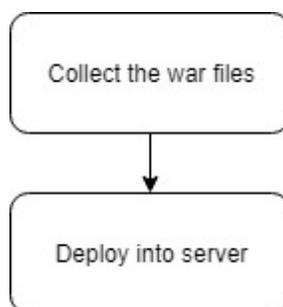
5.2 Deployments List

Below table give details of the deployments required on each domain for the Oracle Banking Branch 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
Branch Common Service	obremo-srv-bcn-branchcommon-services-{version}.war	{**unzip the file**}OBBRN\obremo-srv-bcn-branchcommon-services	Servicing Managed Server
Adapter Service	obremo-srv-adp-adapter-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-adp-adapter-services	Servicing Managed Server
Cash Services	obremo-srv-cas-cash-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-cas-cash-services	Servicing Managed Server
Machine Learning Processing	obremo-srv-cmn-ml-processing-{version}.war	{**unzip the file**} OBBRN\obremo-srv-cmn-ml-processing	Servicing Managed Server
Dependencies	obremo-srv-ext-common-txn.jar	{**unzip the file**} OBBRN\obremo-srv-dependencies	Servicing Managed Server
Common Transaction Service	obremo-srv-cmn-transaction-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-cmn-transaction-services	Servicing Managed Server
Customer Service	obremo-srv-cus-customer-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-cus-customer-services	Servicing Managed Server
Payment Service	obremo-srv-pay-payment-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-pay-payment-services	Servicing Managed Server

ORACLE

Application	Archive name	OSDC path	Targets
Projection Services	obremo-srv-prj-projection-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-prj-projection-services	Servicing Managed Server
Term Deposit Service	obremo-srv-tds-term-deposit-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-tds-term-deposit-services	Servicing Managed Server
SRV Common Utils Services	obremo-srv-cmn-utils-services-{version}.war	{**unzip the file**} OBBRN\obremo-srv-cmn-utils-services	Servicing Managed Server
SRV Business Process Service	obbrn-srv-biz-businessprocess-services-{version}.war	{**unzip the file**} OBBRN\obbrn-srv-biz-businessprocess-services	Servicing Managed Server
Business Product Service	obbrn-cmn-businessproductdetails-services-{version}.war	{**unzip the file**} OBBRN\CASA\obbrn-cmn-businessproductdetails-services	Servicing Managed Server
Process Driver Service	obbrn-cmn-process-driver-services-{version}.war	{**unzip the file**} OBBRN\CASA\obbrn-cmn-process-driver-services	Servicing Managed Server
CASA Customer Service	obremo-csr-cus-customer-services-{version}.war	{**unzip the file**} OBBRN\CASA\obremo-csr-cus-customer-services	Servicing Managed Server
ITALY Localisation Cancel MAV batch Service*	obremo-batch-cancelmavbatch-extended-services-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation MAV batch Service*	obremo-batch-futuremavprocess-extended-services-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation Block MAV Service*	obremo-blockmavnos-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation Circular Cheque Service*	obremo-cirularchq-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation End Teller Large Denom Service*	obremo-endtellerlargedenom-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation Issue MAV Service*	obremo-issuemav-extended-services-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server
ITALY Localisation MAV batch Process Service*	obremo-mavbatchprocess-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION\SERVICES	Servicing Managed Server

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Application	Archive name	OSDC path	Targets
ITALY Localisation MRF parameter maintenance Service*	obremo-mrfparams-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation MRFA/MRFC transaction Service*	obremo-mrfpaymenttxn-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation SRV Batch Event Publisher Service*	obremo-srv-batch-event-publisher-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Static Type LOV Service*	obremo-statictype-service-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation SRV Batch Event Consumer Service*	obremo-srv-batch-event-consumer-{version}.war	{**unzip the file**} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server

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

5.3 <u>Steps to Deploy as Application</u>

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

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6. Oracle Banking Branch Kafka Setup

The topics needs to be created after the installation of Kafka. For installation of Kafka, refer to **Oracle Banking Microservices Architecture Software Deployment** chapter in Oracle Banking Microservices Platform Foundation Installation Guide.

To configure the Dashboard, create the following topics:

- EJLogMessage
- TillTotMessage
- TillTotDenomMessage
- InstDtlsMessage
- obbrnMyTransactions

For e-mail approval and Customer notification, create below topic:

- AlertMessage

To integrate Oracle FLEXCUBE Onboarding with Oracle Banking Branch, create below topic:

- InitialFundingAck

To enable the e-mail approval and Customer notifications, verify the below properties after the installation of Kafka. For information on placeholder update, refer to .

APPLICATION	PROFILE	LABEL	KEY	VALUE
obremo-srv-cmn-utils-services	jdbc	jdbc	plato.eventhub.kafka.brokers	brokerserver:brokerport
obremo-srv-cmn-utils-services	jdbc	jdbc	plato.eventhub.zk.nodes	zookeeperserver:zookeeperport
obremo-srv-cmn-utils-services	jdbc	jdbc	pollingEmail	pollingEmailId
obremo-srv-cmn-utils-services	jdbc	jdbc	emailServerPort	smtp_port
obremo-srv-cmn-utils-services	jdbc	jdbc	emailServerHost	smtp_host@server.com
obremo-srv-cmn-utils-services	jdbc	jdbc	emailPassword	base64Password
obremo-srv-cmn-utils-services	jdbc	jdbc	poller.fixedRate	pollingFrequencyInNumeric
obremo-srv-cmn-utils-services	jdbc	jdbc	poller.initialDelay	initialDelayInNumeric

APPLICATION	PROFILE	LABEL	KEY	VALUE
obremo-srv-cmn-utils-services	jdbc	jdbc	plato.eventhub.kafka.brokers	brokerserver:brokerport
obremo-srv-cmn-utils-services	jdbc	jdbc	plato.eventhub.zk.nodes	zookeeperserver:zookeeperport

APPLICATION	PROFILE	LABEL	KEY	VALUE
plato-alerts-management-services	jdbc	jdbc	EMAIL.AUTH	false
plato-alerts-management-services	jdbc	jdbc	EMAIL.PASSWORD	Base64Password
plato-alerts-management-services	jdbc	jdbc	EMAIL.SMTP_HOST	smtp_host@server.com
plato-alerts-management-services	jdbc	jdbc	EMAIL.SMTP_OUT_PORT	25
plato-alerts-management-services	jdbc	jdbc	EMAIL.SOCKETFACTORY_PORT	25
plato-alerts-management-services	jdbc	jdbc	EMAIL.USER_ID	fullemaiid@server.com

APPLICATION	PROFILE	LABEL	KEY	VALUE
plato-alerts-management-services	jdbc	jdbc	plato.eventhub.kafka.brokers	brokerserver:brokerport
plato-alerts-management-services	jdbc	jdbc	plato.eventhub.zk.nodes	zookeeperserver:zookeeperport

NOTE: SMTP server must be available for sending email.

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7. OAS/OWCC Server Configuration

7.1 Introduction

This section describes the Oracle Analytics Server (OAS) and Oracle Webcenter Content (OWCC) server related configuration for Oracle Banking Branch Installation.

7.2 Prerequisite

1. Machine should have Java JDK has installed.
2. Oracle Analytics Server (OAS) and Oracle Webcenter Content (OWCC) has to be installed on the machine.

NOTE: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide**.

7.3 Configurations for OWCC Server

Configure the OWC server as follows:

1. Execute the query **select * from properties where key like '%dms%';**
2. Update the keys to the value of DMS server. The sample key values are provided below:

Key	Value
dmsServiceUrl	http://hostname:port/_dav/cs/idcplg
dmsServiceUsrname	admin
dmsServicePwd	admin123

7.4 Configurations for OAS

Configure the analytics server as follows:

1. Execute the query **select * from properties where application like '%cmc-report%';**
2. Update the following values of analytics server. The sample key values are provided below:

Key	Value
BIPublisherUrl	http://hostname:port/xmlpserver/services/v2/ReportService
userID	admin
password	admin123
runReportTemplate	templates/12.3/RunReport.vm

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Key	Value
BIReportPublisherUrl	http://hostname:port/xmlpserver/services/v2/ReportService
emailTemplate	emailTemplate

8. SSL Configuration

8.1 Introduction

This section describes the SSL configuration for Oracle Banking Branch Installation.

8.2 Prerequisite

Oracle Weblogic domain with managed servers needs to be created.

8.3 Configurations for SSL

To configure SSL in Oracle Banking Branch, perform the following steps:

1. Enable SSL in *plato-api-gateway service* deployed managed server and appshell deployed managed server.

2. Update the SSL URL in PLATOUI schema's table *PRODUCT_SERVICES_ENV_LEDGER* For example, https://<localhost>:<SSL_PORT>.

3. Update the placeholder -Dapigateway.url value in setUseroverride.sh file to the SSL link. For example,

   JAVA_OPTIONS="${JAVA_OPTIONS} -Dapigateway.url=https://<localhost>:<SSL_PORT>" export JAVA_OPTIONS;

4. Restart all the managed servers.

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9. Restarts and Refresh

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

9.1 Restarting Servers

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

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10.Logging Area

10.1 Introduction

This part of the document will talk about the logs area where after deployment of Oracle Banking Branch Applications in WebLogic server.

10.1.1 Logging Area

Oracle Banking Branch Application writes logs in the below area of the server-

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

For example, 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 Oracle Banking Branch applications would be **~/middleware/user_projects/domains/party_domain/servers/PARTYAPP/logs/ PARTYAPP.out.**

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11. Oracle Banking Branch UI Domain and Cluster Configuration

11.1 Prerequisites

1. Machine should have Java JDK has installed.
2. Oracle Fusion Middleware Infrastructure has to be installed on the machine.

NOTE: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide**.

11.2 Oracle Banking Branch UI Domain

1. Click **Create Domain** tab, and select **Create a new domain** option. Specify the domain location.
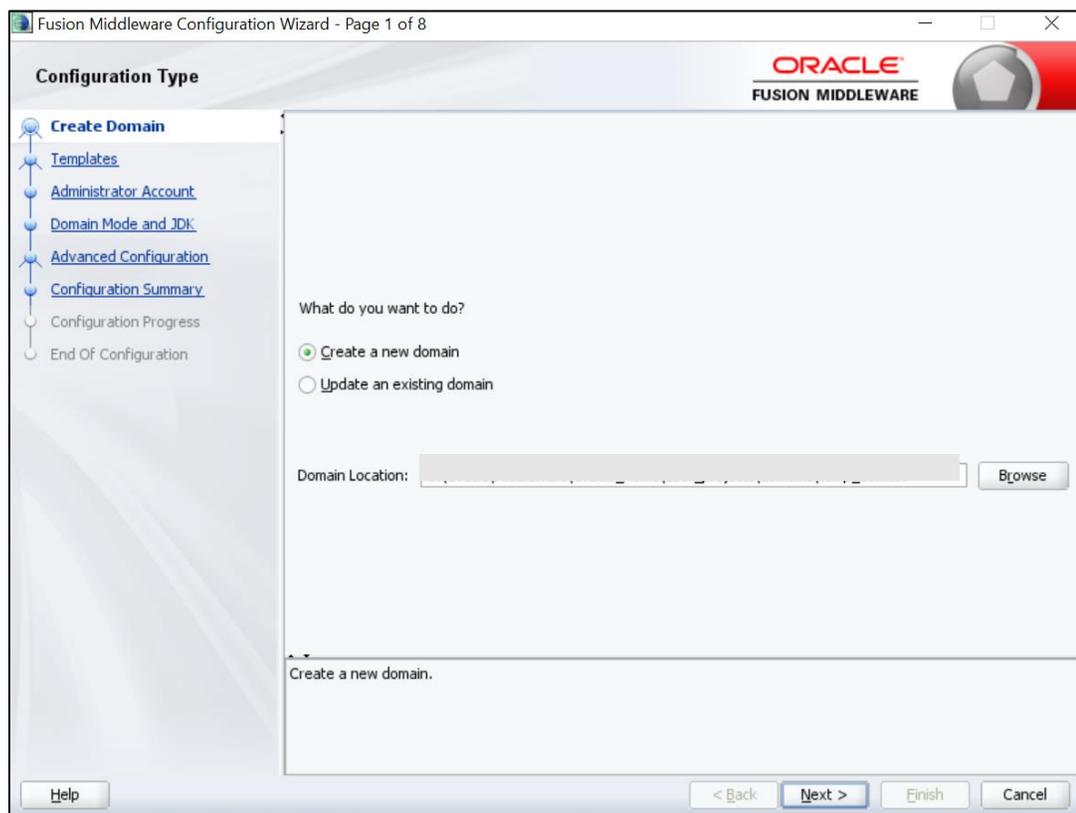
2. On **Administration Server** screen, specify the server details, and click **Next**.

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

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

5. On **Assign Server to Cluster** screen, assign the required servers, and click **Next**.
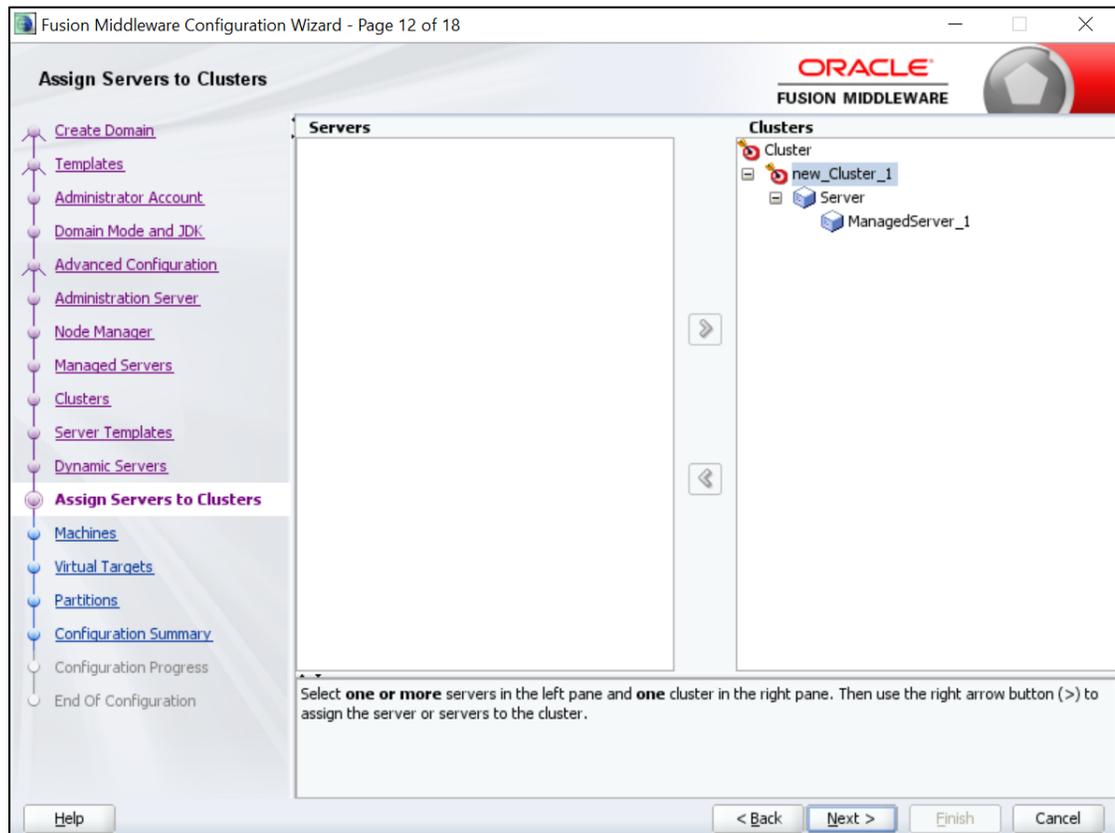
6. On **Machines** screen, add entry for the machine, and click **Next**.
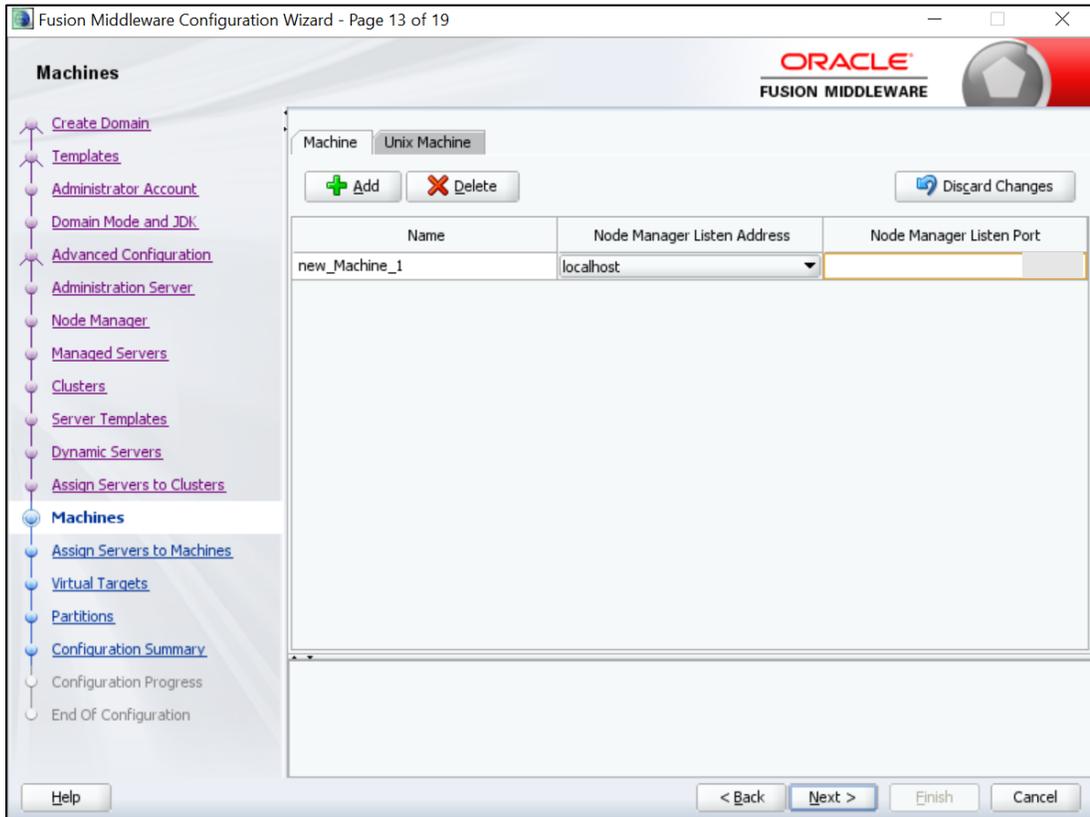
7. On **Assign Server to Machines** screen, assign the required machine, and click **Next**.
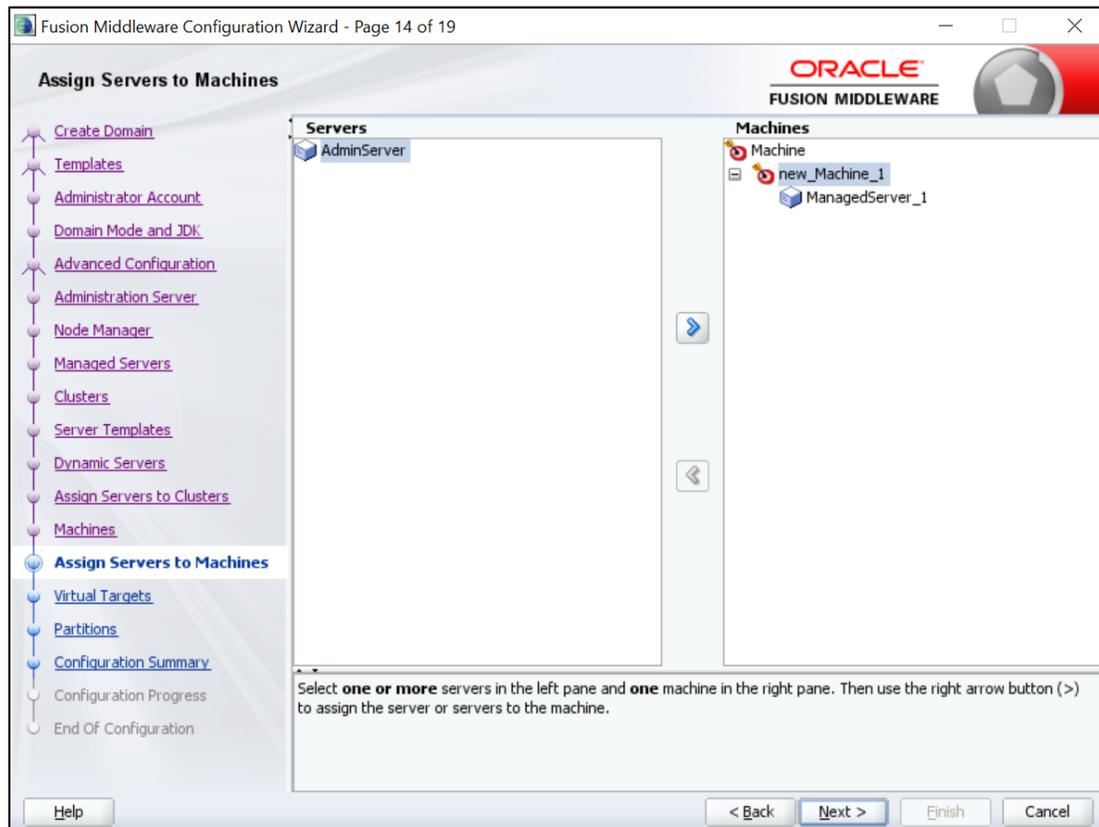
8. On **Configuration Summary** screen, and click **Create** to configure a new domain.

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

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

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

11.3 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.

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12. Login to console and verify servers and clusters.

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

	Name	Type	Cluster	Machine	State	Health	Listen Port
	AdminServer(admin)	Configured			RUNNING	✔ OK	9900
	ManagedServer_1	Configured	new_Cluster_1	new_Machine_1	SHUTDOWN	Not reachable	9903

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

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

	Name	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers
	new_Cluster_1		Unicast	Database	Round Robin	(None)		ManagedServer_1

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

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

	Name	Type
	new_Machine_1	Machine

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

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12. Oracle Banking Branch User Interface Deployments

12.1 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.
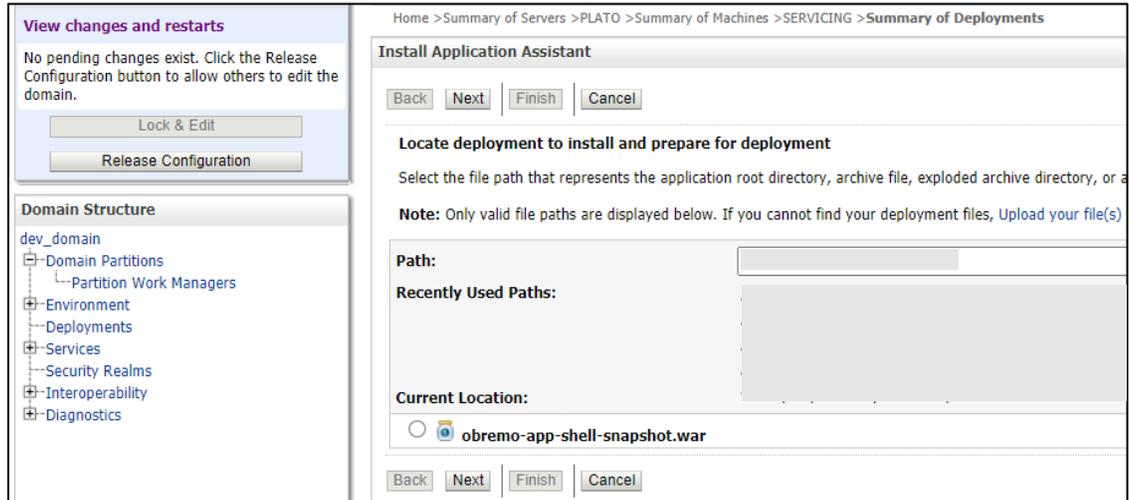
6. Check the option install this deployment as an application option and click **Next**.
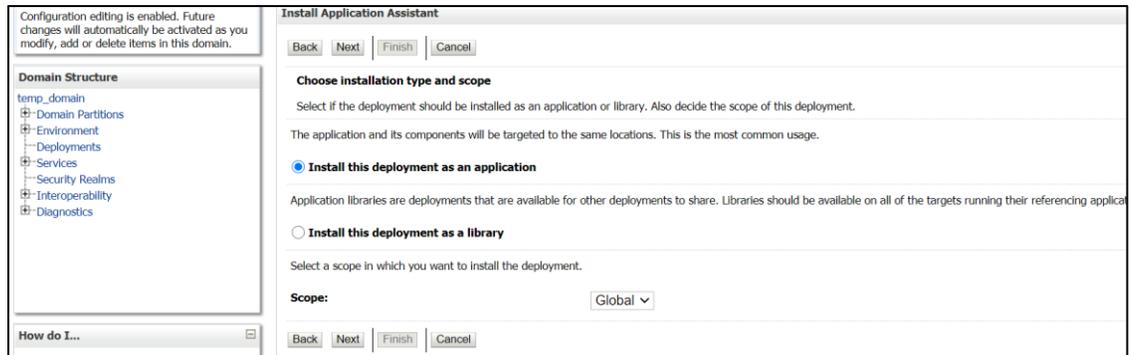
7. Name the deployment as app_shell and click **Next**.

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8. Check the option **Yes, take me to the deployment's configuration screen** and click **Finish**.
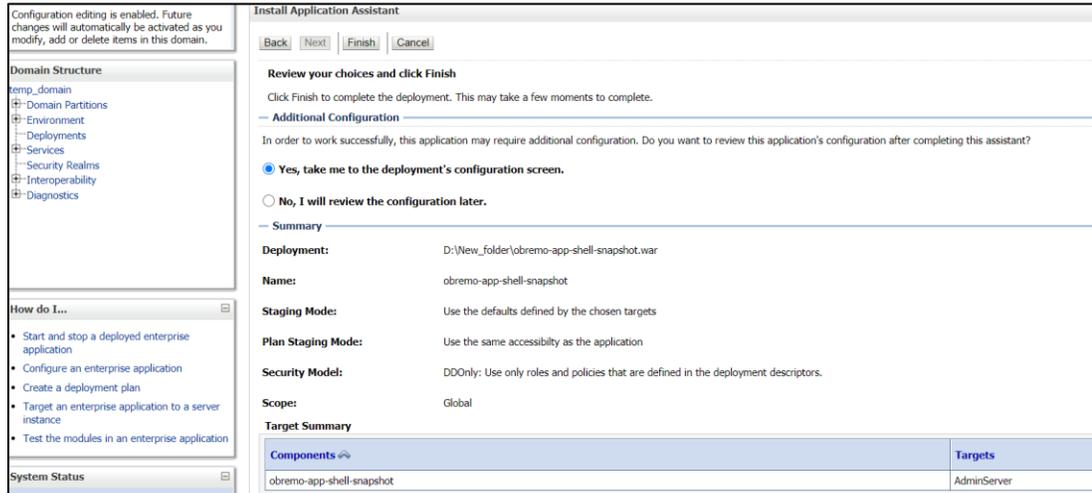
9. Navigate to the **Control** tab and click **start.** Select the option **Servicing all requests** and Click **Yes**.
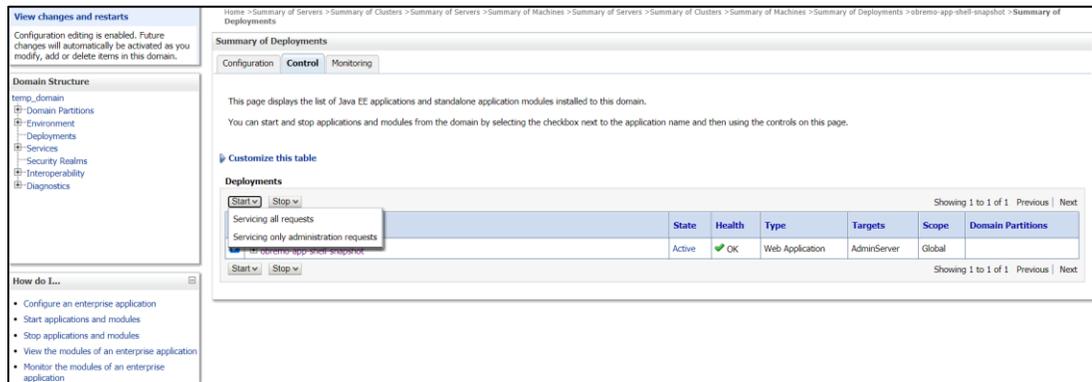
10. Verify state is Active. If yes, open the URL in this format:
   http://HostName:PortNo/app-shell/

   NOTE: In order to remove the options call from UI to service, user need to deploy *appshell* and other UI components in the same managed server, where *plato-api-gateway* was deployed. This will reduce the unnecessarily network calls to the backend. This step is optional.

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13.Restarts and Refresh

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

13.1 Restarting Servers

1. Navigate to **Environment** and then click **Servers**.
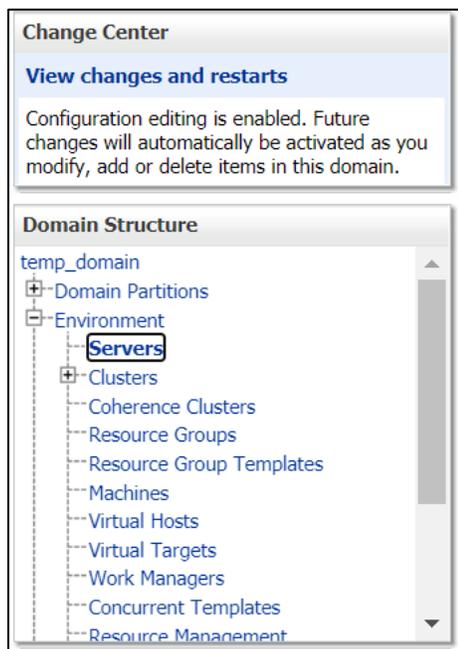
2. Click **Control** tab and select servers to shut down, and click **Yes** to confirm shutdown.

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.

14.Deployments

14.1 <u>Oracle Banking Branch Processes</u>

Below are the list of Conductor based processes which have to be deployed for the Oracle Banking Branch.

Serial Number	Process Name	Dependent process
1	ACCOUNTADDRESSUPDATE	None
2	CUSTOMERADDRESSUPDATE	None
3	CUSTOMERCONTACTUPDATE	None
4	CMC_CHARGES_Consumer (Oracle Banking Routing Hub json config for RP integration)	None
5	PLATOCORE_Consumer (Oracle Banking Routing Hub json config for Account Replication)	None
6	CASA Statement	None
7	CASA Status	None
8	JointHolder	None
9	Modify SI	None
10	Nominee Update	None
11	SI Transfer	None
12	Stop Cheque	None
13	Sweep In to CASA	None
14	Sweep Out CASA	None
15	TD Instruction	None
16	TemporaryOverdraft	None
17	Account Statement Frequency	None
18	Activate Dormant	None
19	Address Update	None
20	Amount Block	None
21	Branch Transfer	None
22	Card Status	None
23	Cheque Book Request	None

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NOTE: The json files for the CMC_CHARGES_Consumer and PLATOCORE_Consumer processes will be available in the folder COMMON_CORE_ROUTING_CONFIGURATION from the Oracle Banking Branch sources.

14.2 <u>Updating the process</u>

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

14.3 <u>Steps to Deploy Conductor Process</u>

NOTE: Server names, Domain names need not to be same as this document provides.
Steps to Deploy a process remains the same for all the workflow 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:
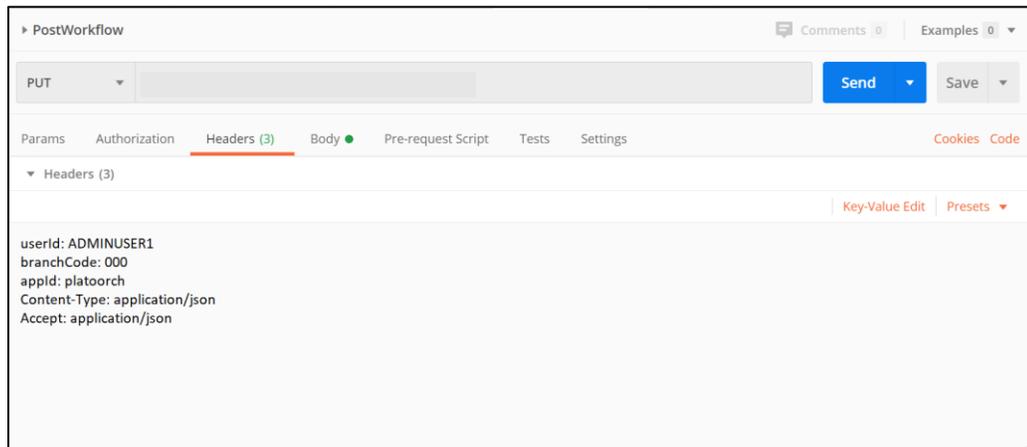
4. Paste the body of the message with the content from the process file.

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

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15. Launching Oracle Banking Branch from FLEXCUBE Universal Banking

15.1 Introduction

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

15.2 Configurations for FLEXCUBE Universal Banking

After log in to FLEXCUBE Universal Banking environment, click on **Next Generation UI** Menu and launch the maintenance screen **CSDNGUIM**. Ensure that user has roles for the screen. Update the Oracle Banking Microservices Architecture 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.

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15.3 Configurations for Oracle Banking Microservices Architecture

SECURITY_CONFIG table in PLATO_SECURITY schema should have the following entries. In addition, SSL should be enabled in Oracle Banking Branch application.

Key	Value
INTEGRATION_ENABLED	true
INTEGRATION_CALLBACK_URL	https://*FCUBShostname:FCUBSport*/FCJNeoWeb/ValidationService/FCNonceValidation/validate
IS_SSO_CONFIGURED	true
AUTO_TOKEN_REGENERATE_ MODE	true

Please update the hostname and port number of FLEXCUBE Universal Banking in the above URL.

16.Oracle Digital Assistant Configuration

16.1 Introduction

Oracle Banking Branch has to interface with Oracle Digital Assistance (ODA) for Chatbot use cases. To address above requirement, the Digital Assistant wizard CCA of Oracle Banking Microservices Architecture 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.

16.2 Setup for Oracle Banking Microservices Architecture

On User Profile menu, a switch is added in user info panel, to enable/disable Digital Assistance.
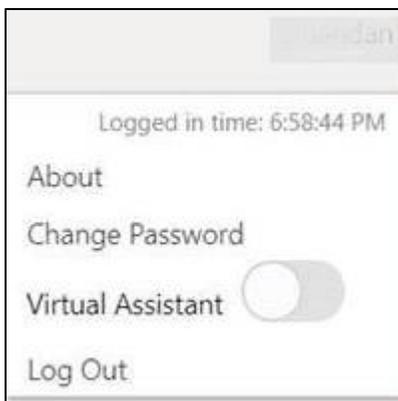
The web-sdk will display chat bot icon, which can be used for communication with Oracle Digital Assistant's Server.

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16.3 Configurations for Oracle Banking Microservices Architecture

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.

16.4 API Gateway Configuration Setup

The user need to configure the API Gateway and publish the skills. Perform the following steps to configure API Gateway:

1. Open Oracle ODA Deployment URL.

2. Specify the username and password, and log in to ODA Homepage.

3. Click **Skills** in the menu.

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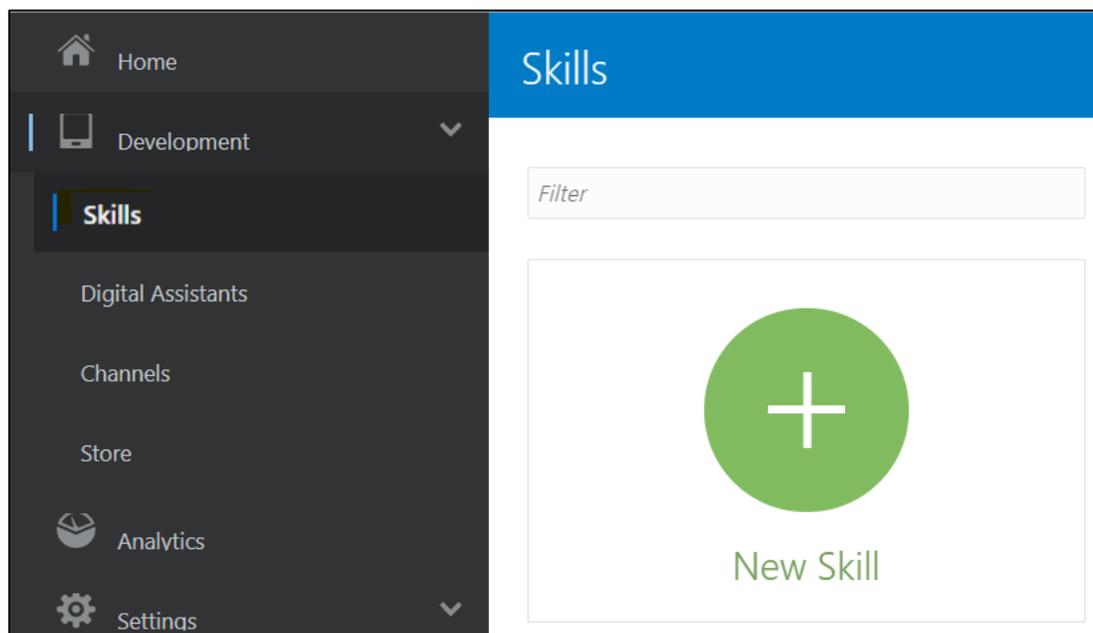
4. Import the skill, which you need to configure from OBBRN_ODA/BranchFunctions(version).zip file.

5. Click settings icon.

6. Click **Configuration** tab.
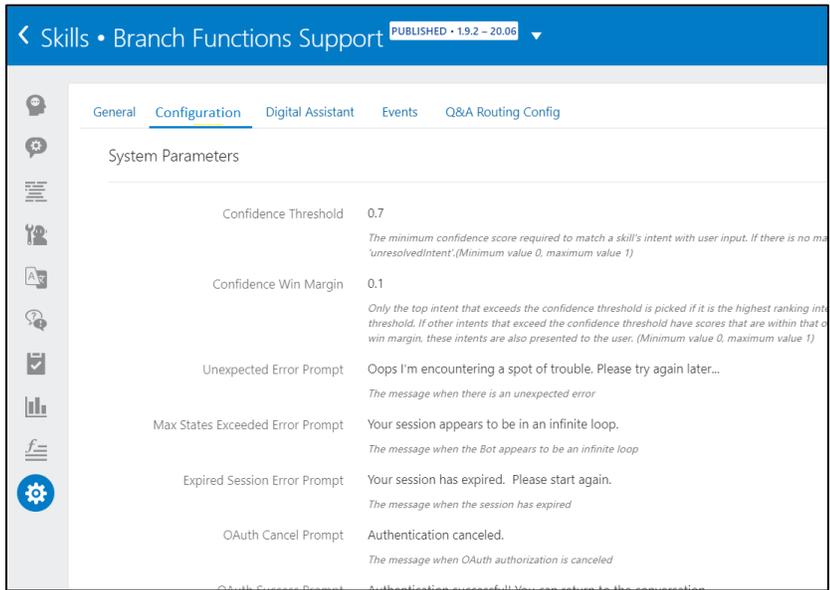
7. Add the Api-Gateway configuration parameters as shown below:

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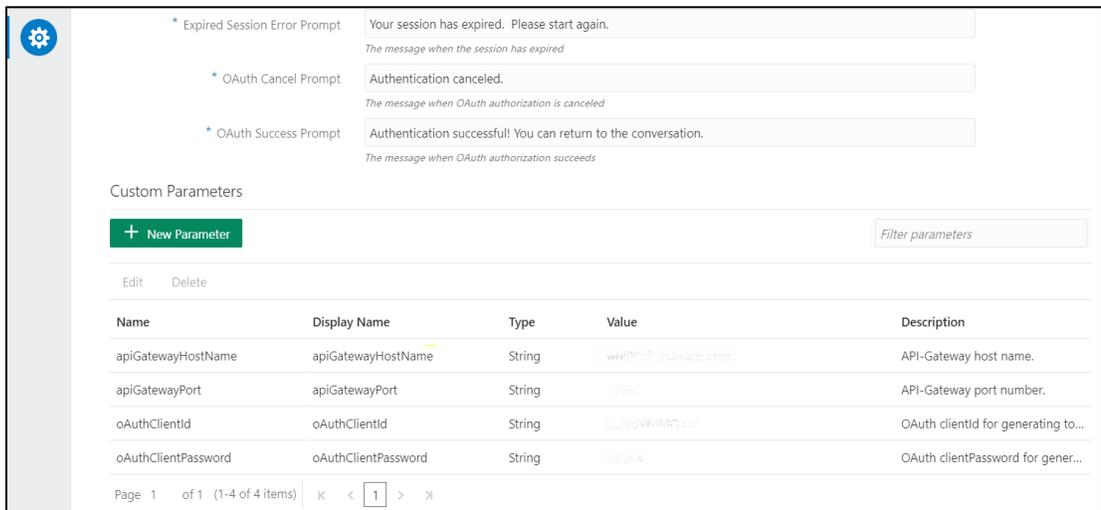
16.5 Map the Skill to Digital Assistant

Make sure that the setup is completed as described in *API Gateway Configuration Setup*.
Perform the following steps to map the skill to Digital Assistant:

1. Click **Digital Assistants** in the menu.
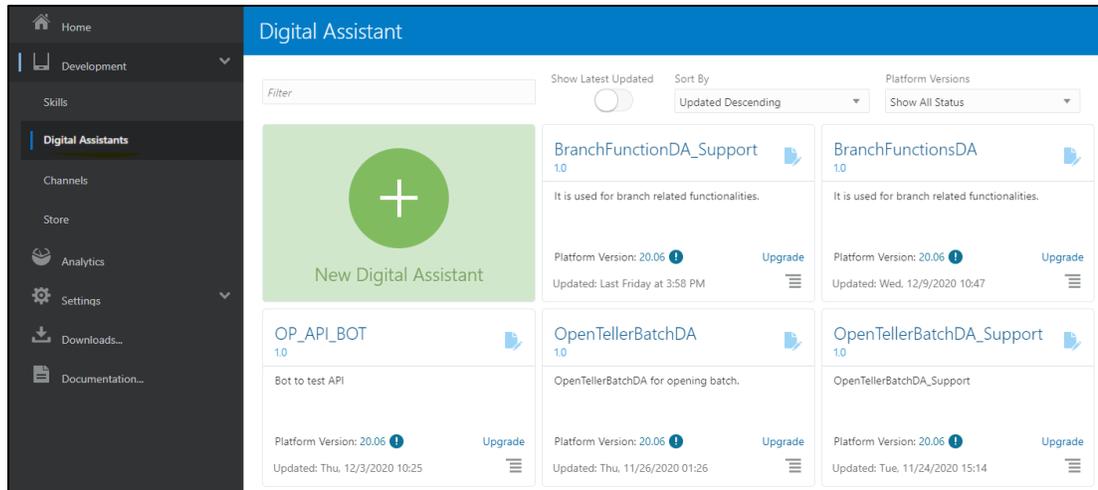
2. Map the skill, which you have created earlier with your Digital-Assistants.
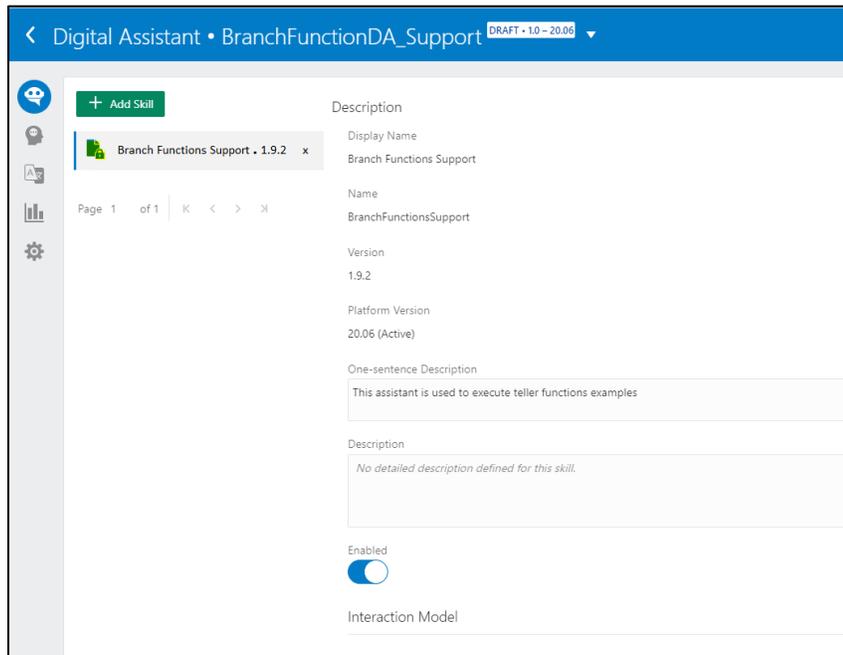
16.6 Map Digital Assistant to Channel

Make sure that the setup is completed as described in *API Gateway Configuration Setup* and *Map the Skill to Digital Assistant*. Perform the following steps to map the Digital Assistant to Channel:

1. Click **Channels** in the menu.
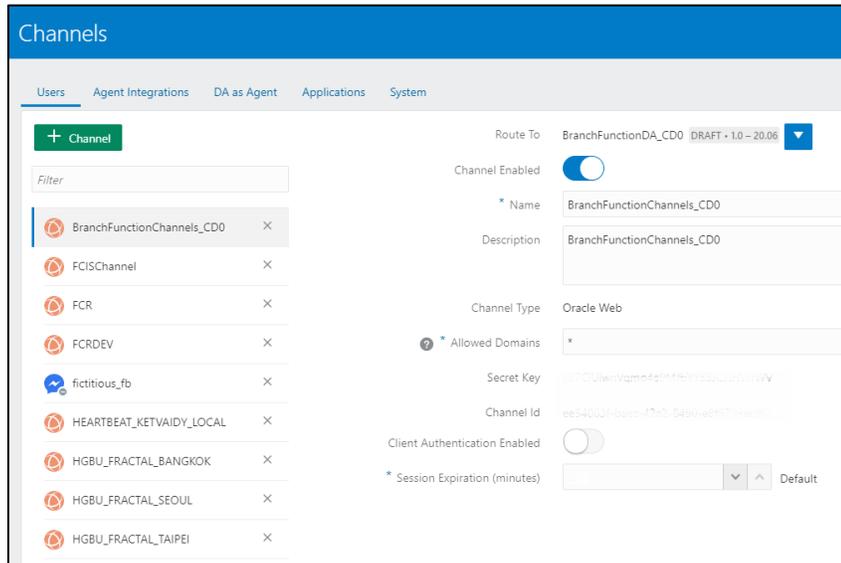
2. Map the Digital Assistant with the necessary channels. Specify the **Channel Type** as **Oracle Web** and the **Allowed Domains** as *****.
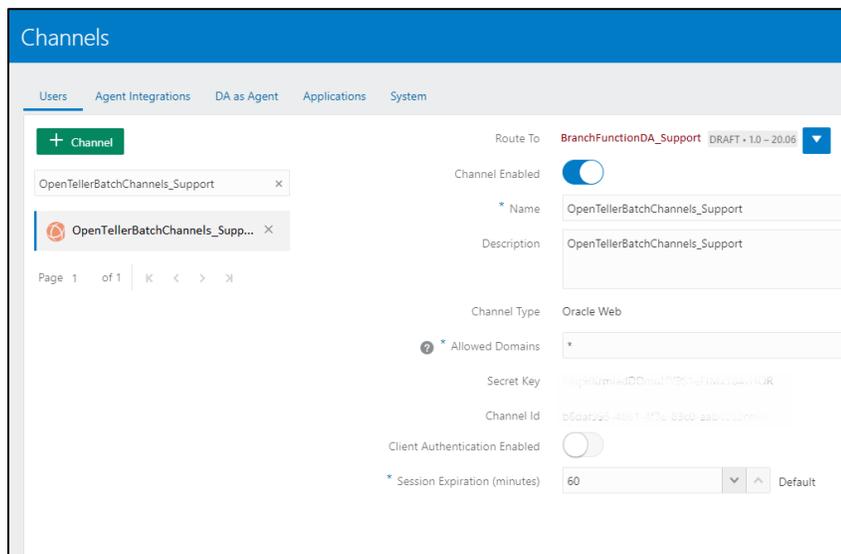
17.Known Issues – Resolutions

17.1 Issues in obremo-srv-bcn-branchcommon-services

This section describes the troubleshooting deployment failure in obremo-srv-bcn-branchcommon-services, and provides instructions to resolve the error. The deployment error is as follows:

<Warning> <Deployer> <BEA-149078> <Stack trace for message 149004
weblogic.application.ModuleException: Error : 1, Position : 0, Sql = insert into
SMS_TM_FUNC_ACTIVITY_DETAIL (ID, FUNCTIONAL_ACTIVITY_CODE,
SERVICE_ACTIVITY_CODE)
values ('CMC_FASA_MENU_DASHBOARD', 'CMC_MENU_FA_DASHBOARD',
'CMC_MENU_SA_DASHBOARD'), OriginalSql = insert into SMS_TM_FUNC_ACTIVITY_DETAIL
(ID, FUNCTIONAL_ACTIVITY_CODE, SERVICE_ACTIVITY_CODE)
values ('CMC_FASA_MENU_DASHBOARD', 'CMC_MENU_FA_DASHBOARD',
'CMC_MENU_SA_DASHBOARD'), Error Msg = ORA-00001: unique constraint
(SMS.PK_SMS_TM_SERVICE_ACTIVITY_DET) violated
:oracle.jdbc.OracleDatabaseException:ORA-00001: unique constraint
(SMS.PK_SMS_TM_SERVICE_ACTIVITY_DET) violated

To resolve the above mentioned deployment error, perform the following steps:

1. Execute the following script in SMS schema:
   * DELETE FROM SMS_TM_FUNCTIONAL_ACTIVITY where FUNCTIONAL_ACTIVITY_CODE='CMC_MENU_FA_DASHBOARD';
   * DELETE FROM SMS_TM_UI_ACTIVITY where UI_ACTIVITY_CODE='CMC_MENU_UA_DASHBOARD';
   * DELETE FROM SMS_TM_SERVICE_ACTIVITY where SERVICE_ACTIVITY_CODE='CMC_MENU_SA_DASHBOARD';
   * DELETE FROM SMS_TM_MENU where ID='CMC_MENU_DASHBOARD';
   * DELETE FROM SMS_TM_FUNC_ACTIVITY_DETAIL where SERVICE_ACTIVITY_CODE='CMC_MENU_SA_DASHBOARD';
   * DELETE FROM SMS_TM_FUNC_ACTIVITY_DETAIL WHERE FUNCTIONAL_ACTIVITY_CODE='CMC_FA_CHG_CALCULATE_CHARGES';
   * DELETE FROM SMS_TM_FUNC_ACTIVITY_DETAIL WHERE FUNCTIONAL_ACTIVITY_CODE='CMC_FA_GET_PRC_METHODS';
   * DELETE FROM SMS_TM_FUNCTIONAL_ACTIVITY WHERE FUNCTIONAL_ACTIVITY_CODE='CMC_FA_CHG_CALCULATE_CHARGES';
   * DELETE FROM SMS_TM_FUNCTIONAL_ACTIVITY WHERE FUNCTIONAL_ACTIVITY_CODE='CMC_FA_GET_PRC_METHODS';
   * DELETE FROM SMS_TM_SERVICE_ACTIVITY WHERE SERVICE_ACTIVITY_CODE='CMC_SA_CHG_CALCULATE_CHARGES';
   * DELETE FROM SMS_TM_SERVICE_ACTIVITY WHERE SERVICE_ACTIVITY_CODE='CMC_SA_GET_PRC_METHODS';

2. Execute the following script in SMS schema:
   DELETE FROM "flyway_schema_history" where "success"=0;

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Installation Guide

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