

Installation Guide

Oracle Banking Branch

Release 14.6.0.0.0

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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
16. obremo-dsr-tds-term-deposit-services
17. obremo-lsr-loan-services
18. obremo-dsr-tds-term-deposit-inquiry-services

19. obbrn-csr-casa-details-services
20. obbrn-cmn-branchservicing-services
21. obbrn-cmn-accountlimit-services

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-enttellerlargedenom-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
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
24. TD Payin by Other Modes
25. TD Rollover
26. TD Top Up
27. RD Account Opening
28. Account Sweep In
29. Card Limits
30. Close SI
31. Close Sweep In
32. Close Sweep Out
33. CIs Amount Block
34. Debit Card Request
35. Document Update
36. Modify Sweep In
37. Modify Sweep Out
38. Cheque Book Status
39. Mod Amount Block
40. Con Amount Block
41. Memo Maintenance
42. TD Redemption
43. Acc Lmt
44. Acc Lmt Unsec
45. TD Redemption

- 46. TD Amount Block
- 47. RD Amount Block
- 48. RD Payment
- 49. TD Payout Modification
- 50. RD Payout and Autopay Instructions
- 51. RD Redemption
- 52. TD Account Modification
- 53. RD Account Modification

1.5 **Related documents**

For more information, refer to the following documents:

- Getting Started User Guide
- Pre installation Guide
- ANNEXURE-1
- FLEXCUBE UBS Database Practices

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. For information on database best practices, refer to *FLEXCUBE UBS Database Practices* in the FLEXCUBE Universal Banking documentation library.

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
<code>management.endpoints.web.exposure.include</code>	<code>prometheus,health</code>

The Key and placeholder values for `plato-orch-service` are as follows;

Key	Placeholder
<code>plato.orchestrator.enableSubWfDynamicAllocation</code>	<code>false</code> (Property for enabling dynamic Allocation for subWorkflow)
<code>plato-orchestrator.protocol</code>	<code>http/https</code> (based on env)

The Key and placeholder values for `sms-core-services` is as follows;

Key	Placeholder
<code>user.disableInactiveUsers</code>	<code>N</code>
<code>user.closeDisabledUsers</code>	<code>N</code>
<code>user.disableInactiveUsers.days</code>	<code>0</code>
<code>user.closeDisabledUsers.days</code>	<code>0</code>
<code>user.sameDayLoginRequired</code>	<code>Y</code>

The Key and placeholder values for cmc-obrh-services is as follows;

Key	Placeholder
cmc-obrh-services.audit.retention.days	This property is used to specify the number of days for retention policy Example: cmc-obrh-services.audit.retention.days=7
cmc-obrh-services.audit.retention.archival	This property is used to specify whether purging or archiving is required Example: cmc-obrh-services.audit.retention.archival=N Note: N for purging and Y for archiving
cmc-obrh-services.oic.oauth.scope	This property is used to specify the OIC's oauth scope.
cmc-obrh-services.oic.secretStore.url	This property is used to specify the OIC's secretstore url.
cmc-obrh-services.oic.idcs.url	This property is used to specify the OIC's idcs url.

The Key and placeholder values for obbrn-cmn-accountlimit-services is as follows;

Key	Placeholder
obbrn-cmn-accountlimit-services.jndi	jdbc/CMNSCRV
obbrn-cmn-accountlimit-services.server.port	Port where the service is getting deployed
obbrn-cmn-accountlimit-services.schemas	Schema created for the service
obbrn-cmn-accountlimit-services.oflo.enabled	1.default – false 2. if oflo product is installed then it can be made true if required)
obremo-csr-customer-services.oflo.enabled	1.default – false 2. if oflo product is installed then it can be made true if required)

The Key and placeholder values for plato-alerts-management services are as follows;

Key	Placeholder
spring.cloud.stream.kafka.binder.configuration.security.protocol	PLAINTEXT (in case of non SSL setup)

Key	Placeholder
spring.cloud.stream.kafka.binder.txn.zkNodes	plato.eventhub.txn.zookeeper.hosts
spring.cloud.stream.kafka.binder.txn.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.tilltot.zkNodes	plato.eventhub.tilltot.zookeeper.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.zookeeper.hosts
spring.cloud.stream.kafka.binder.casaBinder.brokers	plato.eventhub.casaBinder.broker.hosts
spring.cloud.stream.kafka.binder.casaBinder.zkNodes	plato.eventhub.casaBinder.zookeeper.hosts
obremo.bulletin.interface.host	BULLETIN_INTERFACE

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.zookeeper.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.zookeeper.hosts

Key	Placeholder
plato.eventhub.oflo.kafka.brokers	plato.eventhub.oflo.broker.hosts
spring.cloud.stream.kafka.binder.txn.zkNodes	plato.eventhub.txn.zookeeper.hosts
spring.cloud.stream.kafka.binder.txn.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.tilltot.zkNodes	plato.eventhub.tilltot.zookeeper.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.zookeeper.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.zookeeper.hosts
server.port	cmc-deprecation-service.server.port
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

Key	Placeholder
SMS.appld	plato.feed.sms.appld
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
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
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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

The keys and placeholder values for obremo-dsr-tds-term-deposit-services are as follows:

Key	Placeholder
server.port	obremo-dsr-tds-term-deposit-services.server.port
flyway.domain.schemas	obremo-dsr-tds-term-deposit-services.schemas
flyway.domain.db.jndi	obremo-dsr-tds-term-deposit-services.jndi
obbrn.dsr.deposit.productProcessor	dsr.productProcessor

The keys and placeholder values for obremo-dsr-tds-term-deposit-inquiry-services are as follows:

Key	Placeholder
server.port	obremo-dsr-tds-term-deposit-inquiry-services.server.port
flyway.domain.schemas	obremo-dsr-tds-term-deposit-services.schemas
flyway.domain.db.jndi	obremo-dsr-tds-term-deposit-services.jndi
obbrn.dsr.deposit.productProcessor	dsr.productProcessor

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

Key	Placeholder
server.port	obbrn-cmn-branchservicing-services.server.port
flyway.domain.schemas	obbrn-cmn-branchservicing-services.schemas
flyway.domain.db.jndi	obbrn-cmn-branchservicing-services.jndi
plato.service.scheduler.userid	PLATO_DEBUG_USER_ID

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

Key	Placeholder
server.port	obbrn-cmn-accountlimit-services.server.port
flyway.domain.schemas	obbrn-cmn-accountlimit-services.schemas
flyway.domain.db.jndi	obbrn-cmn-accountlimit-services.jndi
oflo.enabled	obbrn-cmn-accountlimit-services.oflo.enabled

The keys and placeholder values for obbrn-csr-casa-details-services are as follows:

Key	Placeholder
server.port	obbrn-csr-casa-details-services.server.port
flyway.domain.schemas	obbrn-csr-casa-details-services.schemas
flyway.domain.db.jndi	obbrn-csr-casa-details-services.jndi

2.3 Database Setup

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)
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)

Service Name	Schema Required
obbrn-cmn-process-driver-services	Yes (CMNPRODRV schema)
obremo-csr-cus-customer-services	Yes (CSRCASA schema)
obbrn-cmn-branchservicing-services	Yes (CMNSCRV schema)
obbrn-csr-casa-details-services	No (CSRCASA schema)
obremo-dsr-tds-term-deposit-services	Yes (New schema to be created for obremo-dsr-tds-term-deposit-services - DSRDEPOSIT)
obremo-dsr-tds-term-deposit-inquiry-services	No (obremo-dsr-tds-term-deposit-services schema)
obremo-lsr-loan-services	Yes (LSRLOAN schema)
obbrn-cmn-accountlimit-services	No (CMNSCRV schema)

2.4 User Grants

2.4.1 Common Grants

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;

2.4.2 Common Core Grants

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

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

2.4.3 Security Management System (SMS) Grants

The following grants are provided additionally in the SMS schema:

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

2.4.4 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 execute on DBMS_DATA_MINING to PROJECTION;
- grant create view to PROJECTION;
- grant create table to PROJECTION;
- grant drop table to PROJECTION;

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
obbrn-cmn-branchservicing-services	Oracle Banking Branch Domain
obbrn-csr-casa-details-services	Oracle Banking Branch Domain
obremo-dsr-tds-term-deposit-services	Oracle Banking Branch Domain
obremo-dsr-tds-term-deposit-inquiry-services	Oracle Banking Branch Domain
obremo-lsr-loan-services	Oracle Banking Branch Domain

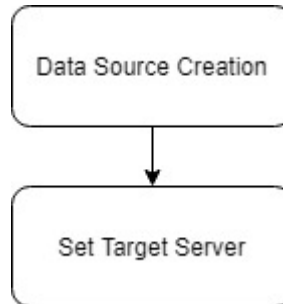
Service Name	Domain Name
obremo-batch-cancelmavbatch-extended-services*	Oracle Banking Branch Domain
obremo-batch-futuremavprocess-extended-services*	Oracle Banking Branch Domain
obremo-blockmavnos-service*	Oracle Banking Branch Domain
obremo-cirularchq-service*	Oracle Banking Branch Domain
obremo-enttellerlargedenom-service*	Oracle Banking Branch Domain
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
obbrn-cmn-accountlimit-services	Oracle Banking Branch Domain

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

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

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
obbrn-cmn-branchservicing-services	CMNSCRV	jdbc/CMNSCRV	Servicing Managed Server
obbrn-csr-casa-details-services	CSRCASA	Jdbc/CSRCASA	Servicing Managed Server
obremo-dsr-tds-term-deposit-services	DSRDEPOSIT	jdbc/DSRDEPOSIT	Servicing Managed Server
obremo-dsr-tds-term-deposit-inquiry-services	DSRDEPOSIT	jdbc/DSRDEPOSIT	Servicing Managed Server
obremo-lsr-loan-services	LOAN	jdbc/LSRLOAN	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-circularchq-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
obbrn-cmn-accountlimit-services	CMNSCRV	jdbc/CMNSCRV	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

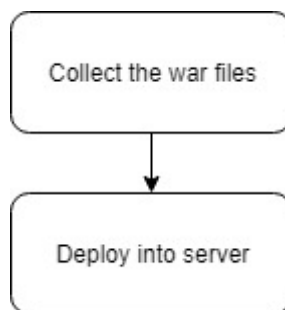
As part of Oracle Banking Branch, flyway jndi changes are incorporated. In order to deploy the services successfully, map the following data source to all the newly created managed servers for Oracle Banking Branch.

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
REPORTSERVICE	jdbc/REPORTSERVICE	Servicing 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 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

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
CASA 360	obbrn-csr-casa-details-services-{version}.war	{unzip the file} OBBRN\CASA\obbrn-csr-casa-details-services	Servicing Managed Server
Branch Servicing	obbrn-cmn-branchservicing-services-{version}.war	{unzip the file} OBBRN\CASA\obbrn-cmn-branchservicing-services	Servicing Managed Server
Deposit Service	obremo-dsr-tds-term-deposit-services-{version}.war	{unzip the file} OBBRN\obremo-dsr-tds-term-deposit-services	Servicing Managed Server
Deposit Inquiry Service	obremo-dsr-tds-term-deposit-inquiry-services-{version}.war	{unzip the file} OBBRN\obremo-dsr-tds-term-deposit-inquiry-services	Servicing Managed Server
Loan Service	obremo-lsr-loan-services-{version}.war	{unzip the file} OBBRN\obremo-lsr-loan-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

Application	Archive name	OSDC path	Targets
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
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
Customer Account Limit Service	obbrn-cmn-accountlimit- services-{version}.war	{unzip the file} OBBRN\obbrn- cmn-accountlimit-services	Servicing Managed Server

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

5.3 Steps to Deploy as Application

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

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.

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 DSR Advice generation on during processing, create below topic.

- dsrAdviceGeneration

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 [2.2.1 Placeholder Update](#).

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

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

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	fullemaid@server.com

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.

7. Configuration for FOP

As part of FOP adoption, follow the below steps to generate reports successfully.

1. Deploy plato-report-services.
2. Download the zip file from ARU Link [24814268](#)
3. Copy the template_metadata.7z folder from OBBRN_ADVICE_FORMATS/obbrn-advice-formats-release/TELLER/FOP and extract as per fop.destination.file-system.template-metadata-directory(PLATO schema against report-service) path on server.
4. Copy the template_metadata.7z folder from OBBRN_ADVICE_FORMATS/obbrn-advice-formats-release/DEPOSITS/FOP and extract as per fop.destination.file-system.template-metadata-directory(PLATO schema against report-service) path on server.
4. Create a directory /scratch/OBMA/report-service/output(can be any valid location in server) and provide it Read/Write access.
5. Copy the fop.xconf on /scratch/OBMA/report-service(can be any valid location in server) and provide Read/Write access.

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.

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.

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**.

11. Oracle Banking Branch UI Domain and Cluster Configuration

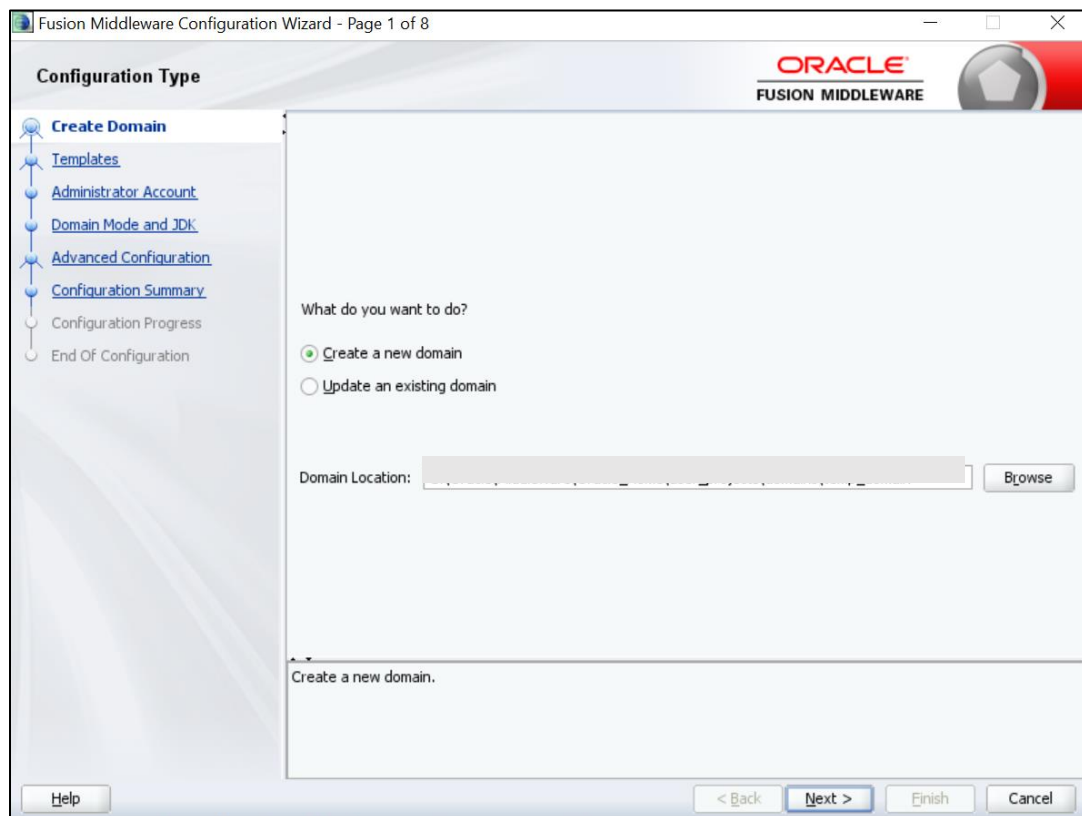
11.1 Prerequisites

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**.

The screenshot shows the 'Administration Server' configuration screen in the Oracle Fusion Middleware Configuration Wizard. The window title is 'Fusion Middleware Configuration Wizard - Page 6 of 16'. The Oracle logo and 'FUSION MIDDLEWARE' text are in the top right corner. A navigation pane on the left lists the following steps: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, **Administration Server** (highlighted), Node Manager, Managed Servers, Clusters, Server Templates, Machines, Virtual Targets, Partitions, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains the following fields:

- Server Name: AdminServer
- Listen Address: All Local Addresses
- Listen Port: [Empty text box]
- Enable SSL:
- SSL Listen Port: [Empty text box]

A note at the bottom of the main area states: 'Port number must be between 1 and 65535, and different from SSL listen port and coherence port.' At the bottom of the window, there are four buttons: Help, < Back, Next > (highlighted), Finish, and Cancel.

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		<input checked="" type="checkbox"/>	Disabled

Help < Back Next > Finish Cancel

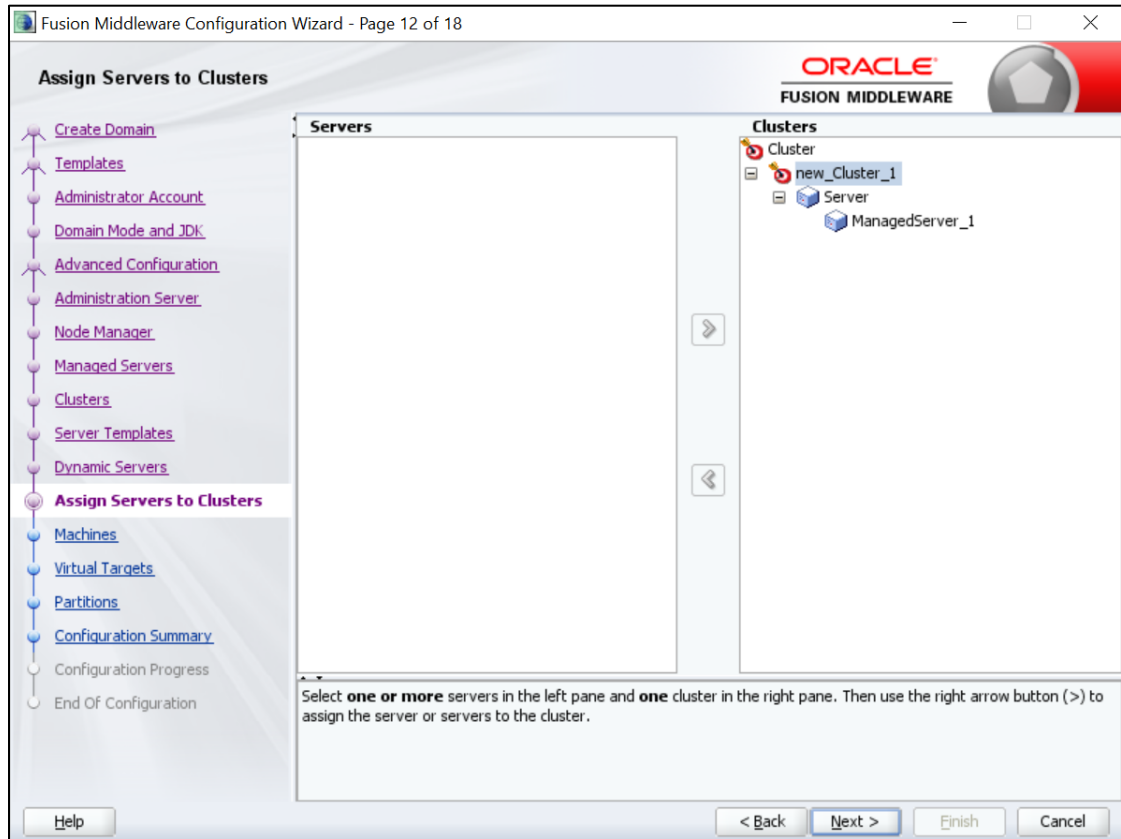
4. On **Clusters** screen, add entry for cluster, and click **Next**.

The screenshot shows the 'Clusters' configuration screen in the Fusion Middleware Configuration Wizard. The left sidebar contains a tree view 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:

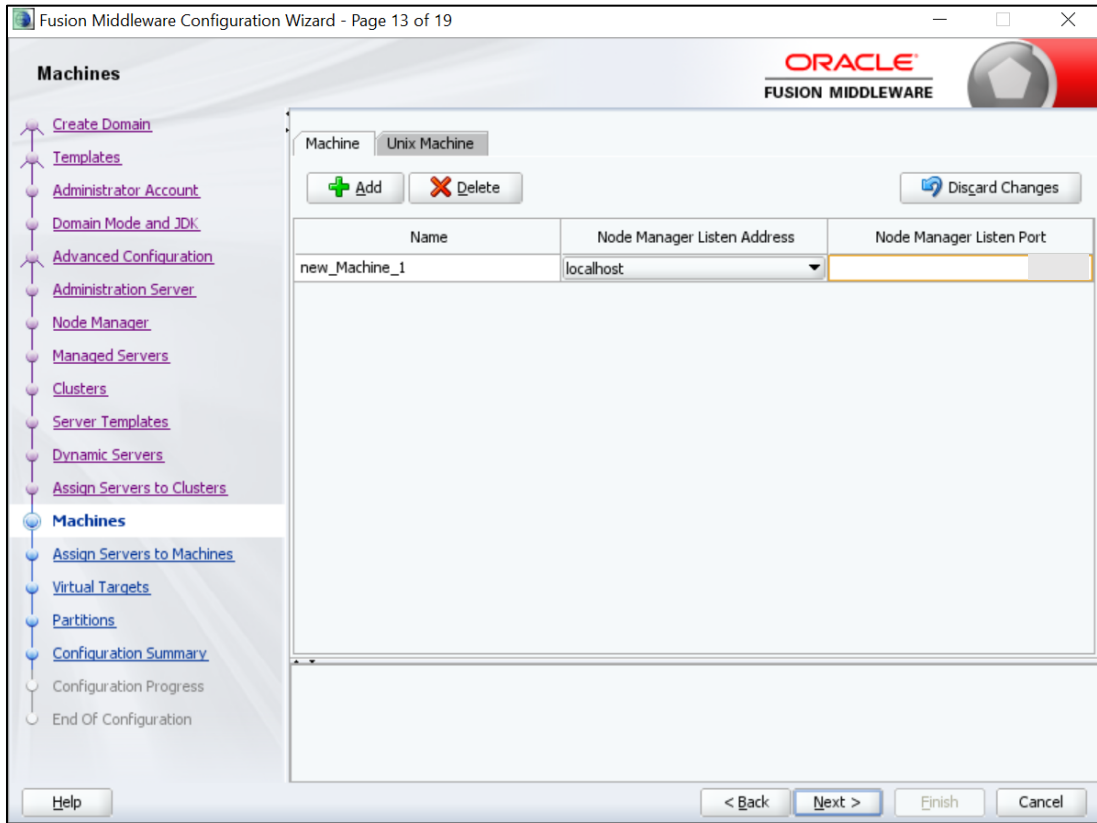
Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
new_Cluster_1			0	0

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

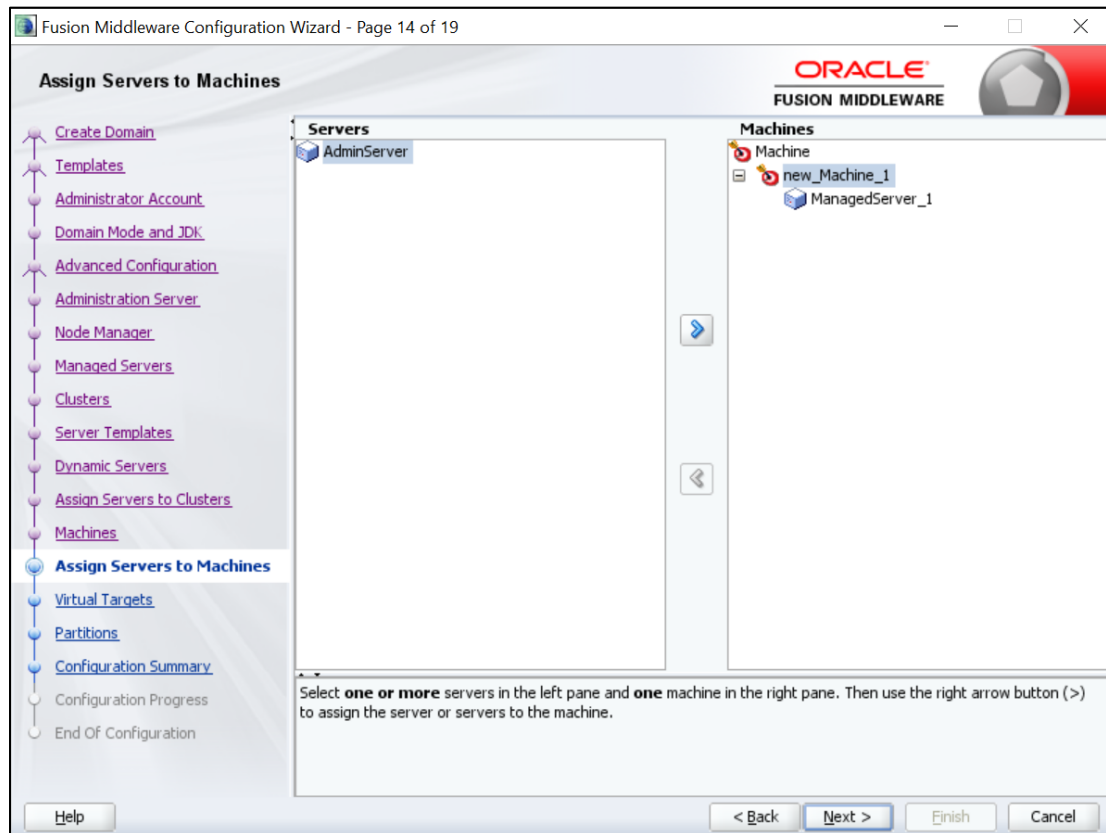
5. On **Assign Server to Cluster** screen, assign the required servers, and click **Next**.



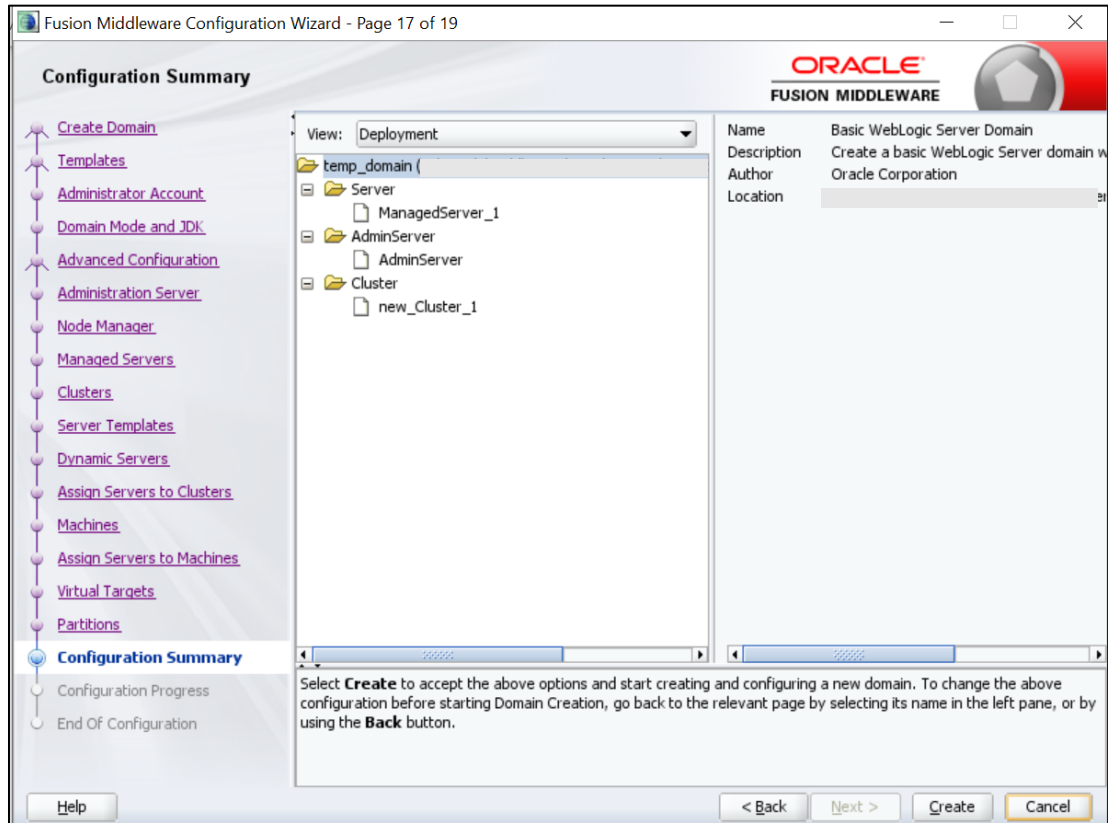
6. On **Machines** screen, add entry for the machine, and click **Next**.



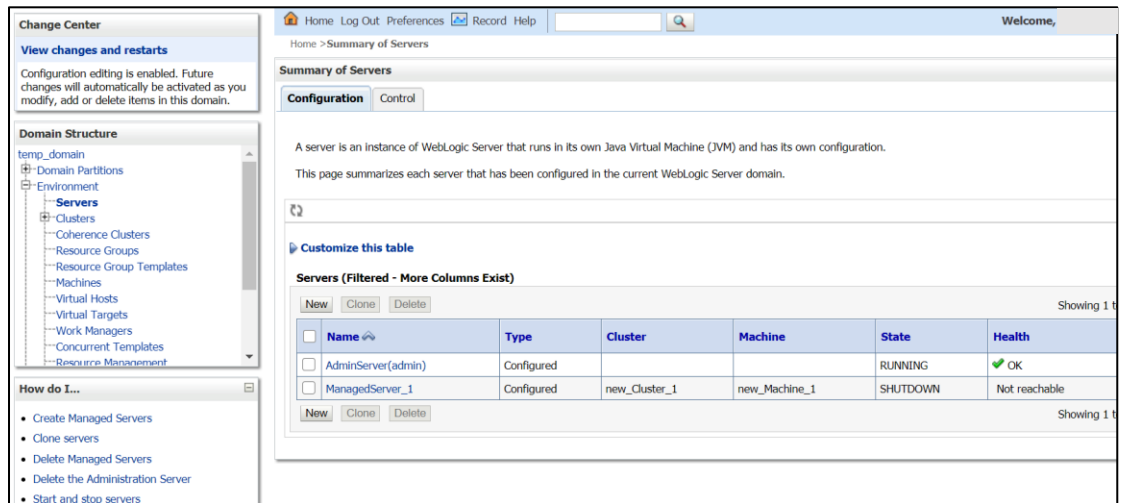
7. On **Assign Server to Machines** screen, assign the required machine, and click **Next**.



- 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.

- 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.

- Create **boot.properties** file under **/user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security**.
- Edit **boot.properties** and give username and password details.
- Goto **/user_projects/domain/sms_domain/bin**.
- Run **startWeblogic.cmd** (or **.sh** if operating system is linux).
- Goto **/user_projects/domains/ sms_domain/bin**.
- Run **setNMJavaHome.cmd** (**.sh**).
- Goto **/user_projects/domains/ sms_domain/nodemanager**.
- 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**.
- Navigate to **/user_projects/domains/ sms_domain/bin**.
- Run **startNodeManager.cmd** (or **.sh** if operating system is linux).
- Start all managed servers.

12. 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)
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

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)
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

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
Showing 1 to 1 of 1 Previous | Next

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

New Clone Delete

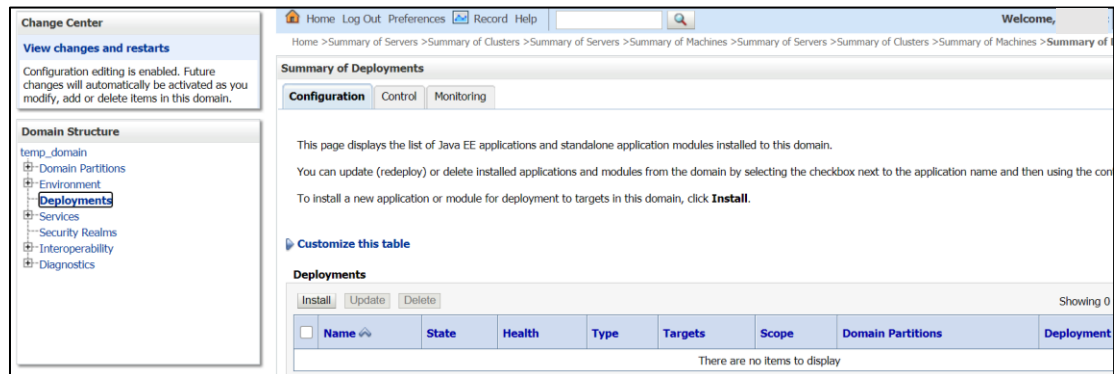
12. Oracle Banking Branch User Interface Deployments

12.1 Steps to deploy as application

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

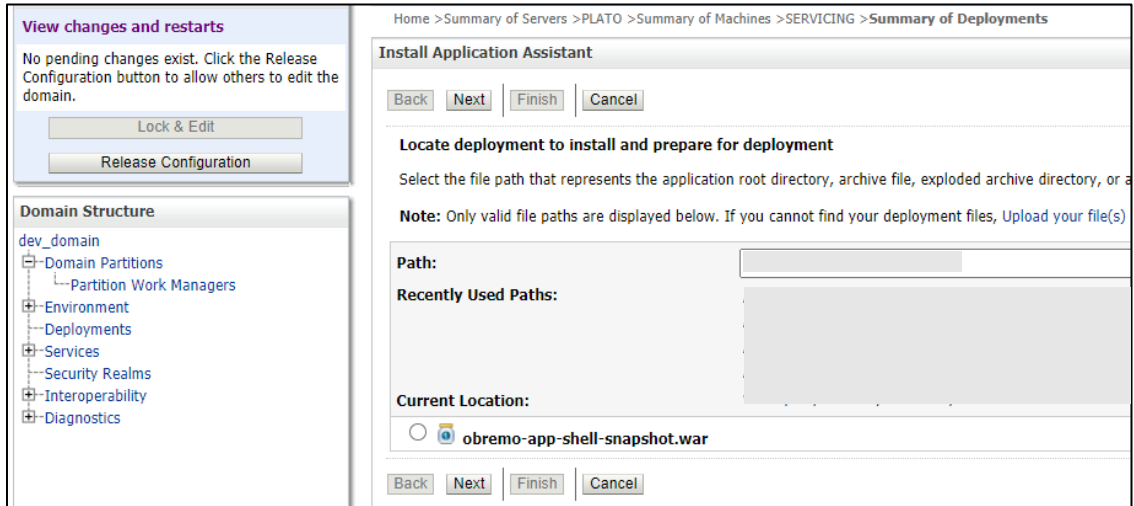
Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain where we deploy will differ. Find the below screenshots to see how deployment of archive as application is done on weblogic:

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**.

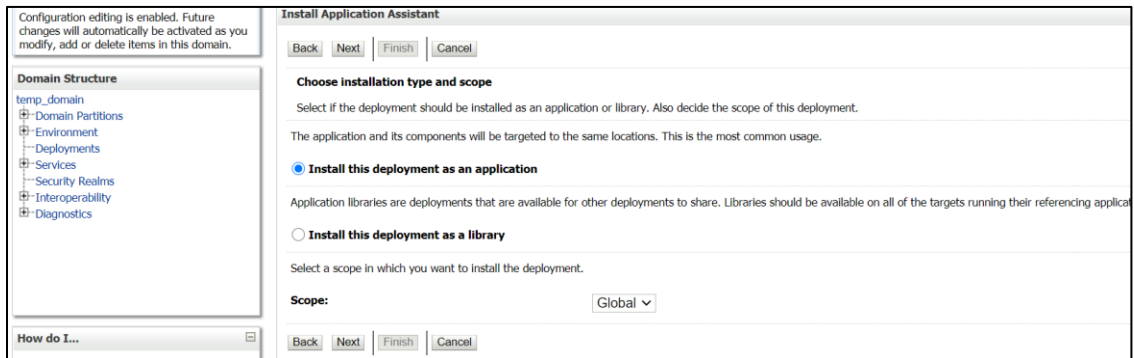


The screenshot displays the Oracle WebLogic Console interface. On the left, the 'Change Center' sidebar shows the 'Domain Structure' tree with 'Deployments' selected. The main content area is titled 'Summary of Deployments' and includes tabs for 'Configuration', 'Control', and 'Monitoring'. Below the tabs, there is explanatory text and an 'Install' button. At the bottom, a table with columns for Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment is shown, but it is currently empty with the message 'There are no items to display'.

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

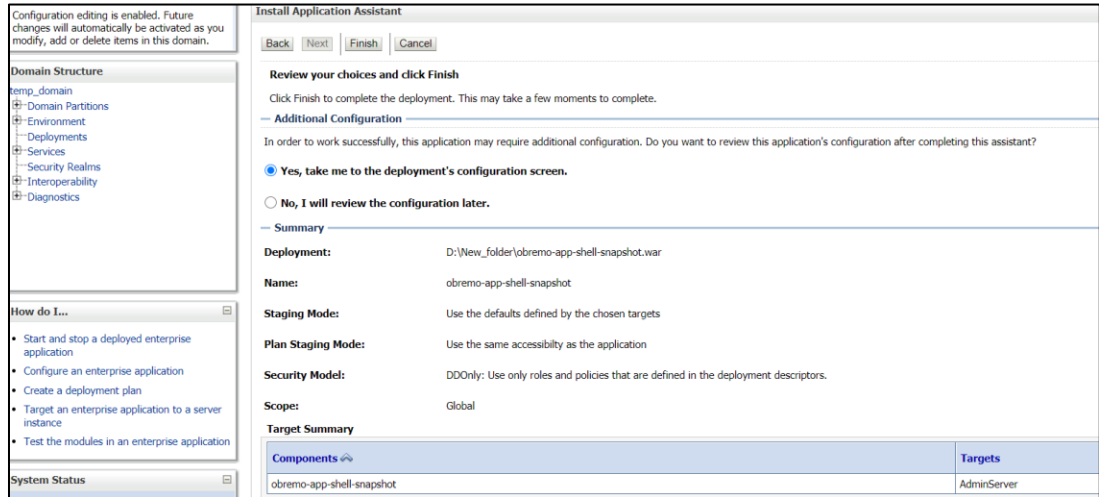


6. Check the option install this deployment as an application option and click **Next**.

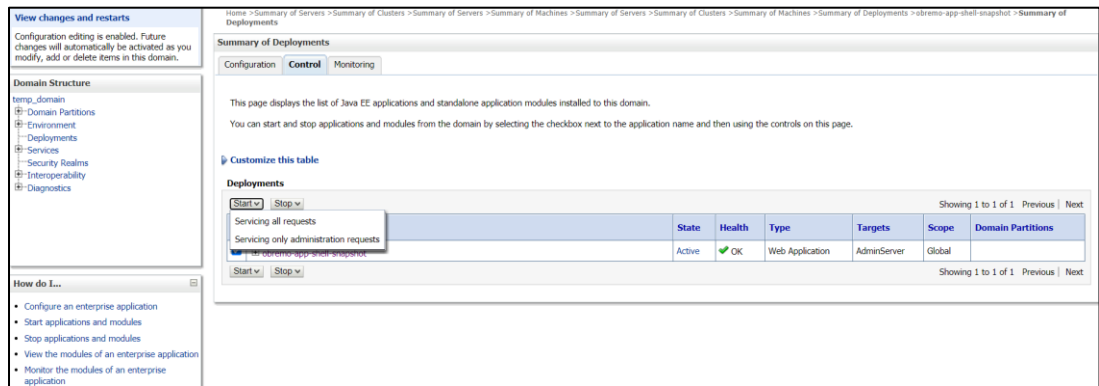


7. Name the deployment as app_shell and click **Next**.

- 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/app-shell/>

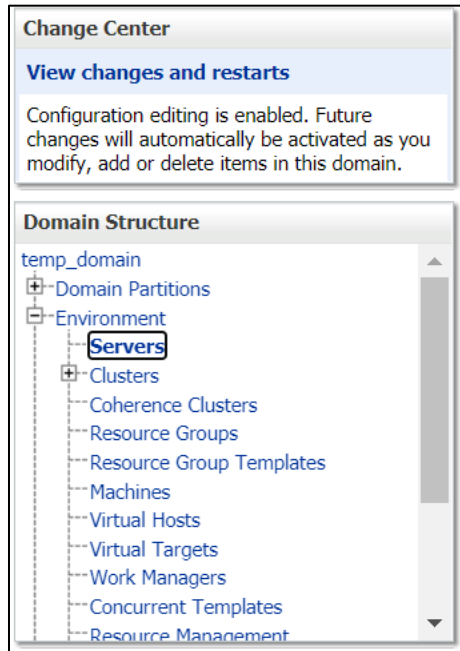
NOTE: In order to remove the options call from UI to service, user need to deploy *appshell* and other UI components in the same managed server, where *plato-api-gateway* was deployed. This will reduce the unnecessarily network calls to the backend. This step is optional.

13. Restarts and Refresh

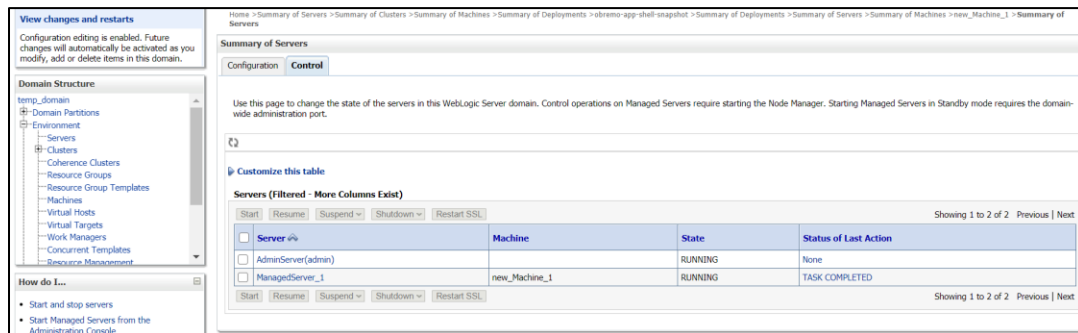
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

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.



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

- 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

Install Update Delete

Showing 1 to 1 of 1 Previous Next

14. Deployments

14.1 Oracle Banking Branch Processes

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

Serial Number	Process Name	Dependent process
24	TDPAYINOTHERMODES	None
25	TDROLLOVER	None
26	TDTOPUP	None
27	RDACCOPEN	None
28	Account Sweep In	None
29	Card Limits	None
30	Close SI	None
31	Close Sweep In	None
32	Close Sweep Out	None
33	Cls Amount Block	None
34	Debit Card Request	None
35	Document Update	None
36	Modify Sweep In	None
37	Modify Sweep Out	None
38	Cheque Book Status	None
39	Mod Amount Block	None
40	Con Amount Block	None
41	Memo Maintenance	None
42	TD Redemption	None
43	Acc Lmt	None
44	Act Lmt Unsec	None
45	TC-SALE	None
46	TC-PURCHASE	None
47	MMACCL	None
48	eodFlipDateBatch	None
49	TD Redemption	None
50	TD Amount Block	None
51	RD Amount Block	None
52	RD Payment	None
53	TD Payout Modification	None

Serial Number	Process Name	Dependent process
54	RD Payout and Autopay Instructions	None
55	RD Redemption	None
56	TD Account Modification	None
57	RD Account Modification	None

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 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}}/"
```

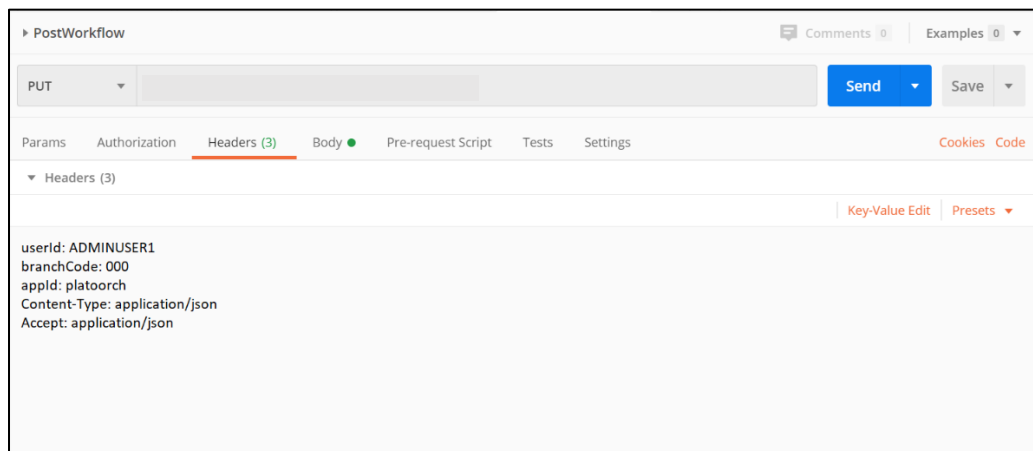
{{PROCESS_SERVER_HOST}} - IP of the Conductor server.

{{PROCESS_SERVER_PORT}} - Port of the Conductor server

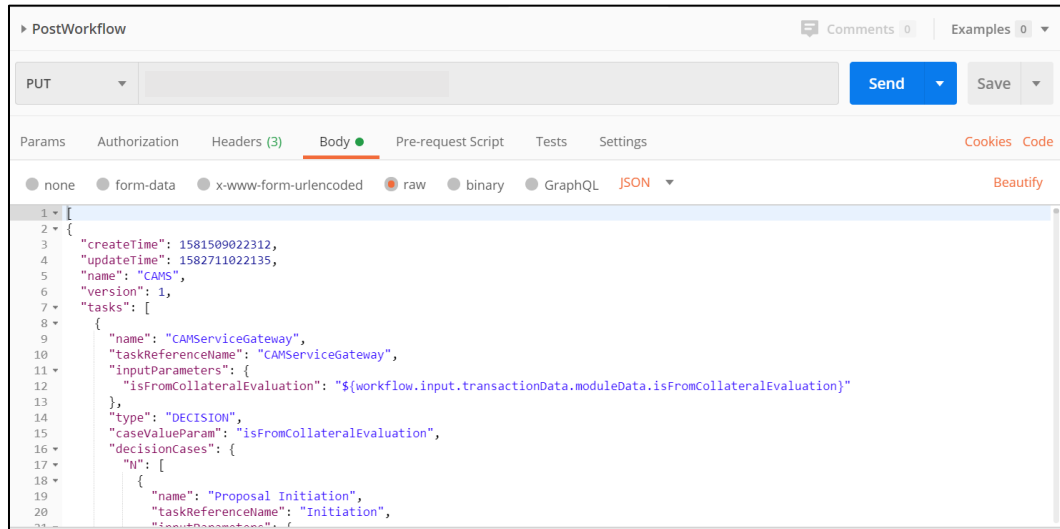
14.3 Steps to Deploy Conductor Process

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:



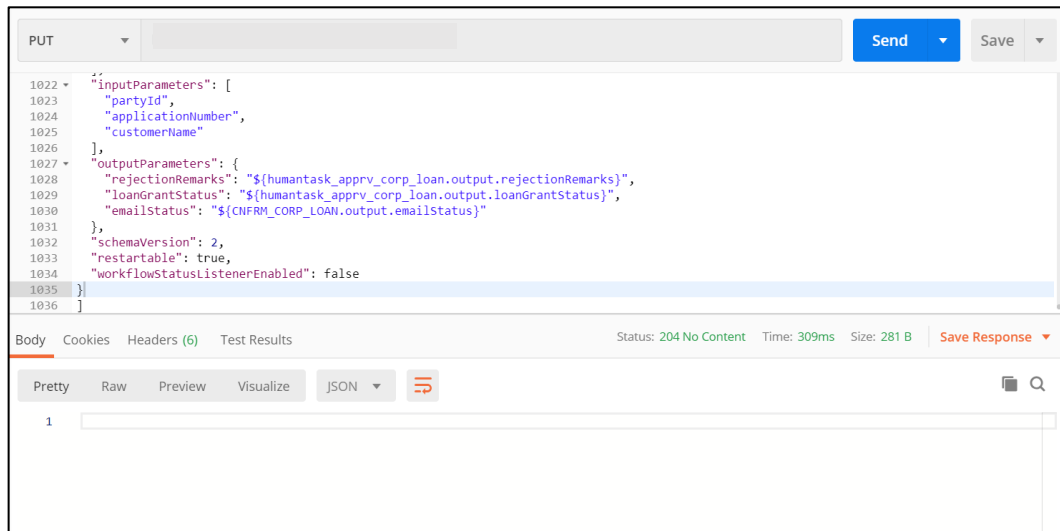
- Paste the body of the message with the content from the process file.



The screenshot shows a REST client interface for a PUT request. The request body is a JSON object with the following structure:

```
1 {
2 {
3   "createTime": 1581509922312,
4   "updateTime": 1582711022135,
5   "name": "CAMS",
6   "version": 1,
7   "tasks": [
8     {
9       "name": "CAMServiceGateway",
10      "taskReferenceName": "CAMServiceGateway",
11      "inputParameters": {
12        "isFromCollateralEvaluation": "${workflow.input.transactionData.moduleData.isFromCollateralEvaluation}"
13      },
14      "type": "DECISION",
15      "caseValueParam": "isFromCollateralEvaluation",
16      "decisionCases": {
17        "N": [
18          {
19            "name": "Proposal Initiation",
20            "taskReferenceName": "Initiation",
21            "inputParameters": {
```

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



The screenshot shows the REST client interface after sending the request. The response body is a JSON object 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 ]
```

The status bar indicates: Status: 204 No Content Time: 309ms Size: 281 B Save Response

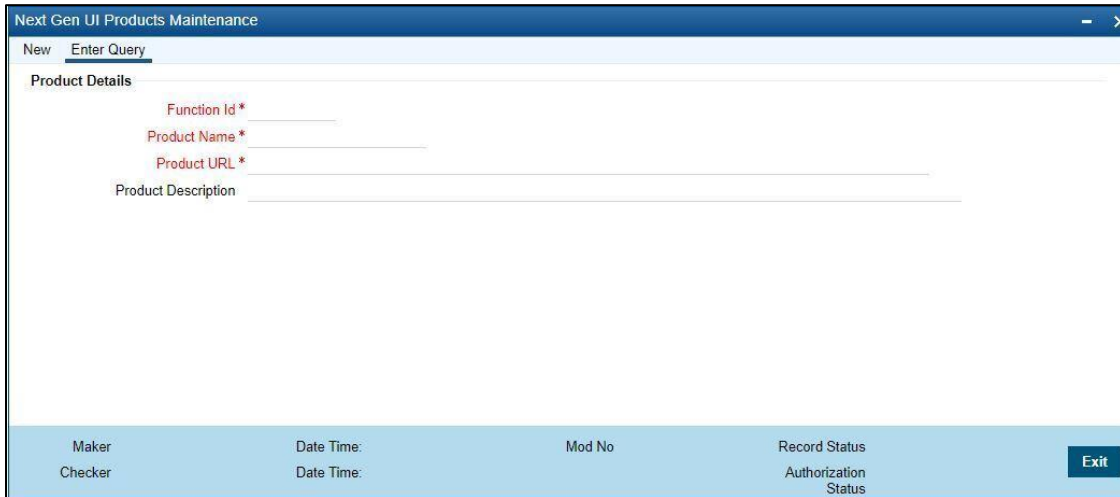
15. Launching Oracle Banking Branch from FLEXCUBE Universal Banking

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.

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

Key	Value
AUTO_TOKEN_REGENERATE_MODE	true

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

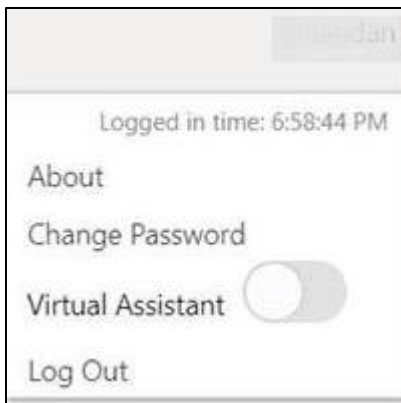
16. Oracle Digital Assistant Configuration

16.1 Introduction

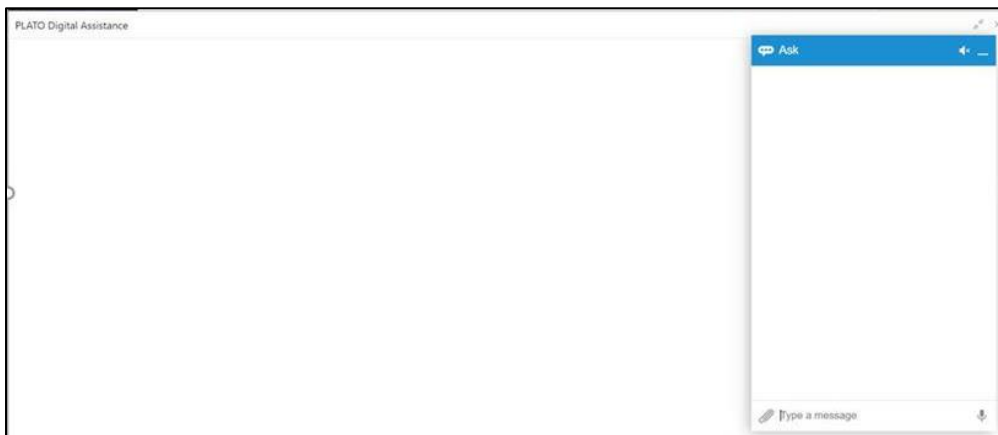
Oracle Banking Branch has to interface with Oracle Digital Assistance (ODA) for Chatbot use cases. To address above requirement, the Digital Assistant wizard CCA of Oracle Banking Microservices Architecture is having configuration to connect to ODA. This wizard contain enabling of Oracle Digital Assistant's 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.



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.

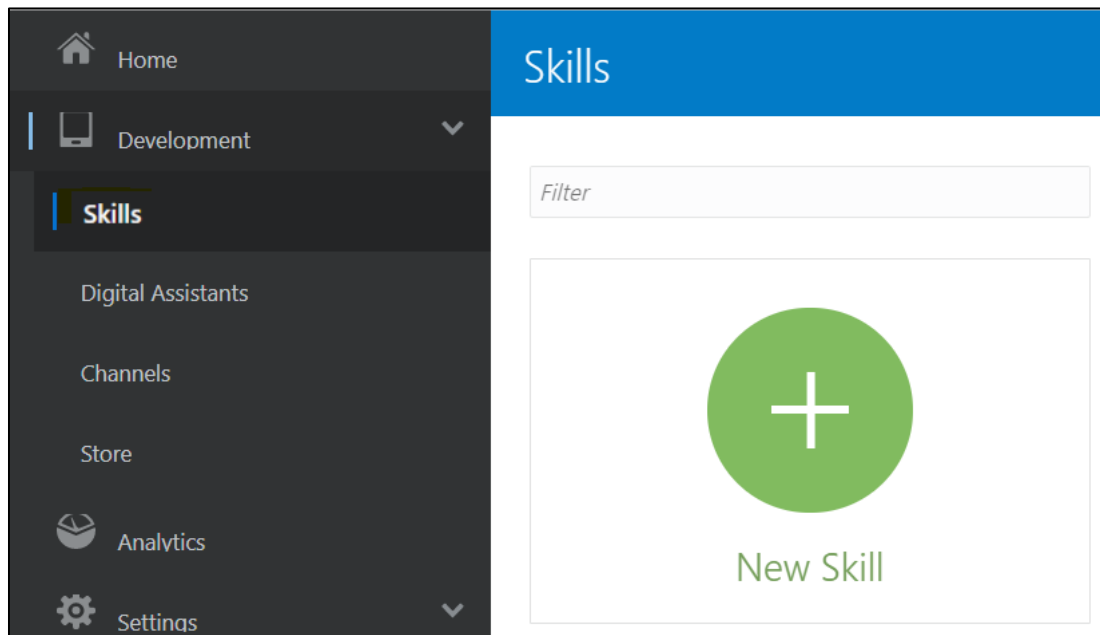
Key	Value
Product Name	ODA
URL	https://hostname:platodiscoveryport/

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

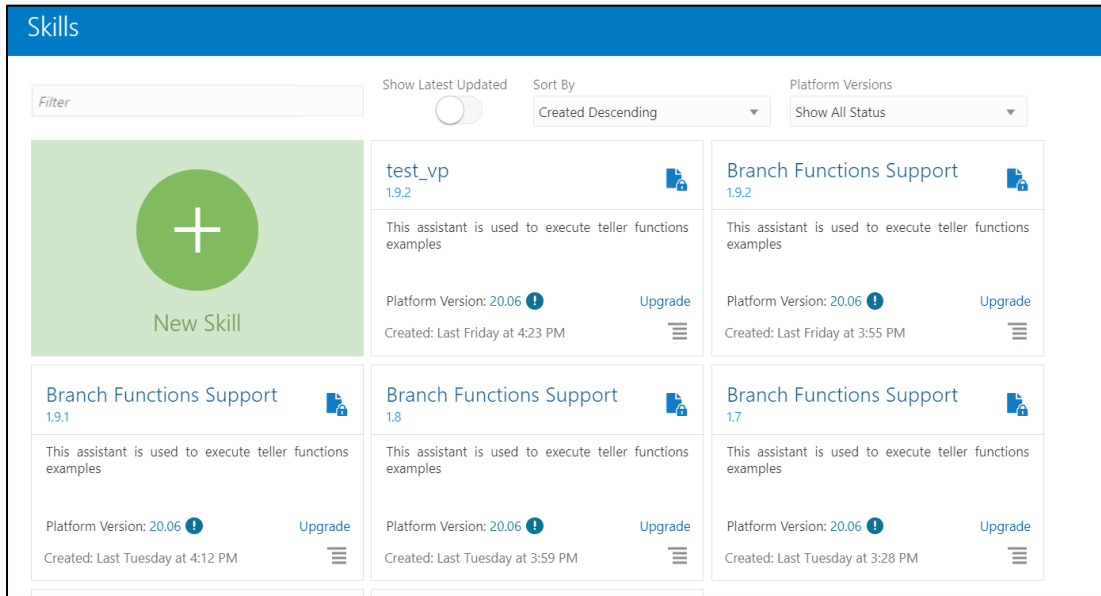
16.4 API Gateway Configuration Setup

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

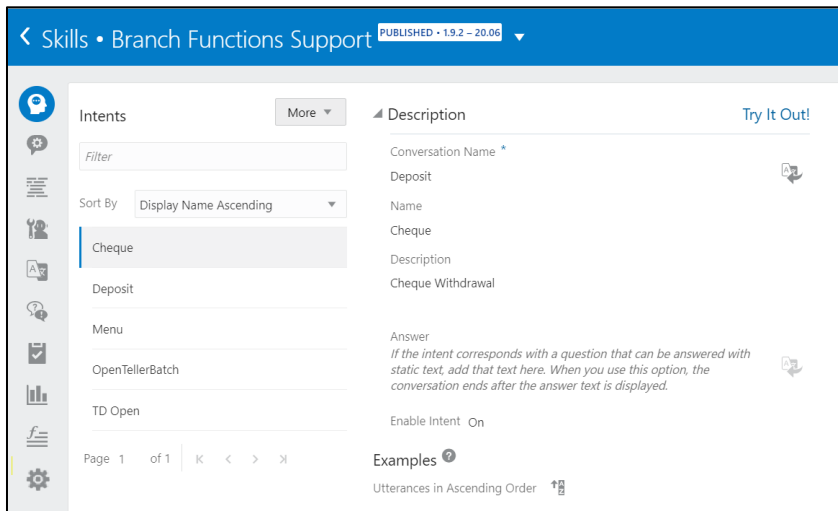
1. Open Oracle ODA Deployment URL.
2. Specify the username and password, and log in to ODA Homepage.
3. Click **Skills** in the menu.



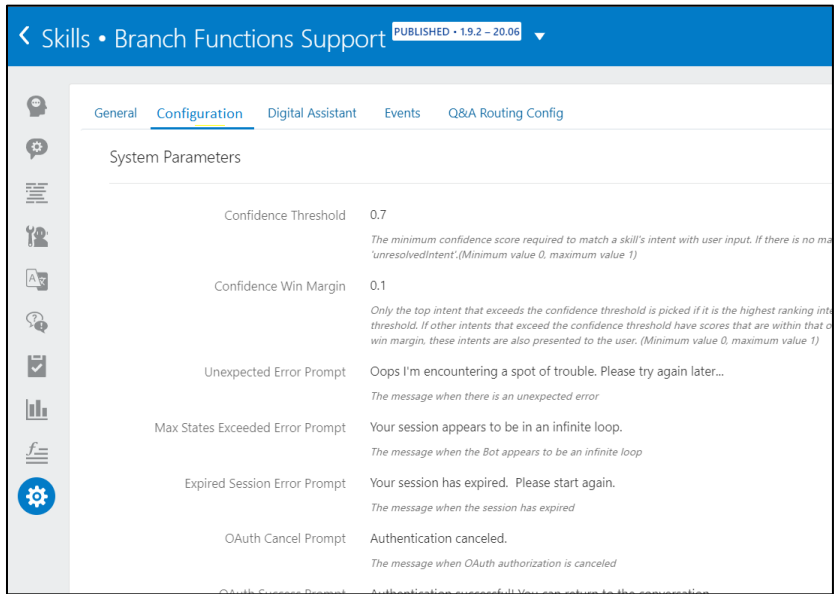
4. Import the skill, which you need to configure from folder OBBRN_ODA/Skill



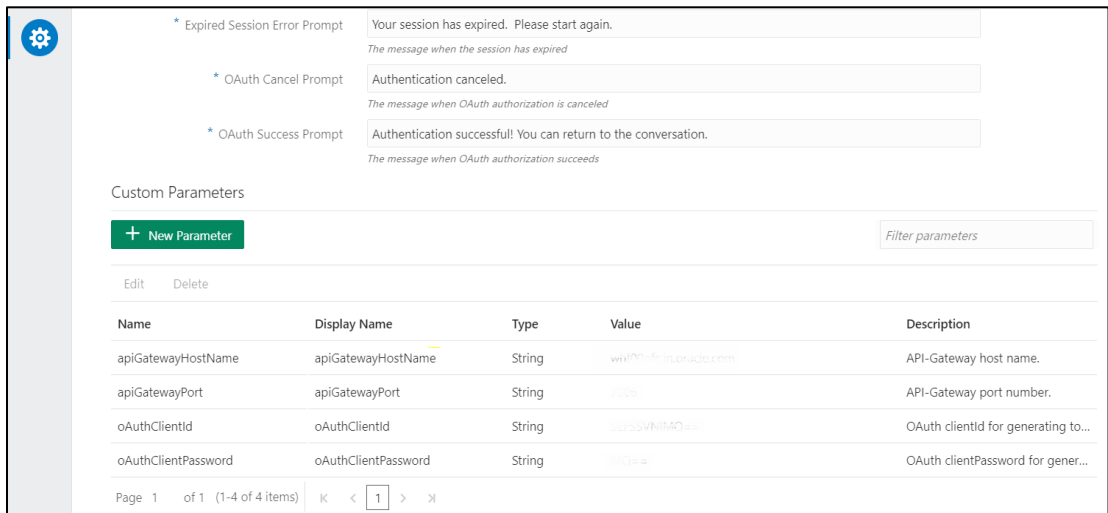
5. Click settings icon.



6. Click **Configuration** tab.



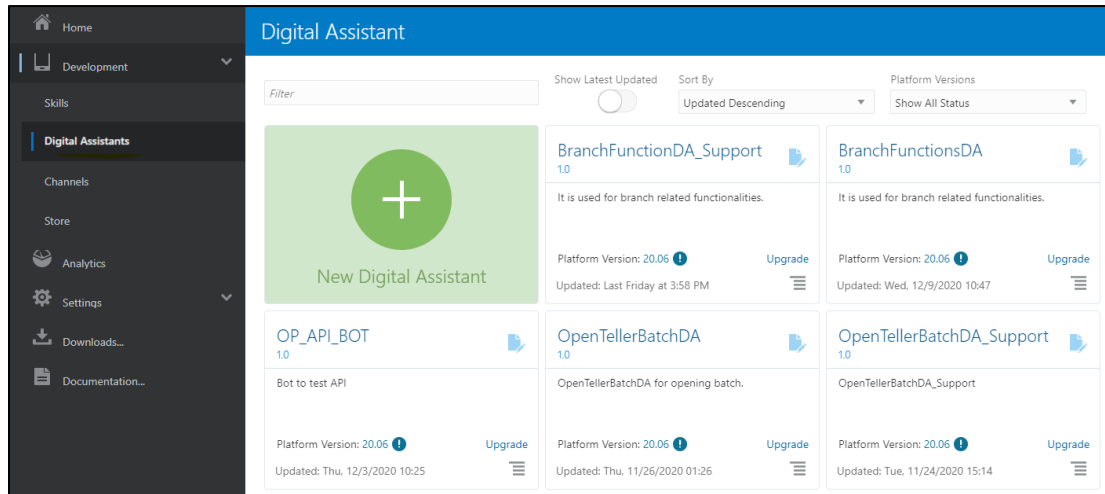
7. Add the Api-Gateway configuration parameters as shown below:



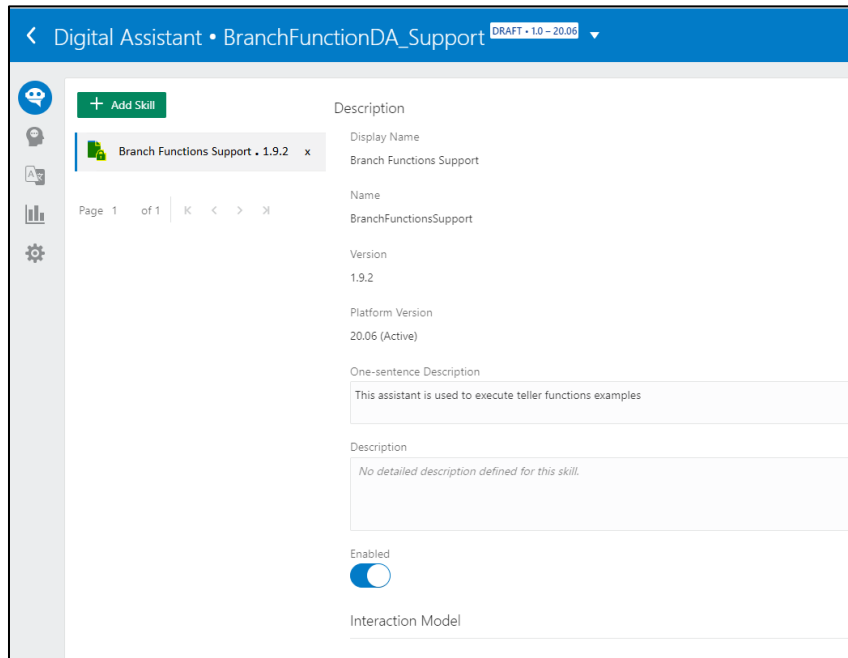
16.5 Map the Skill to Digital Assistant

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.



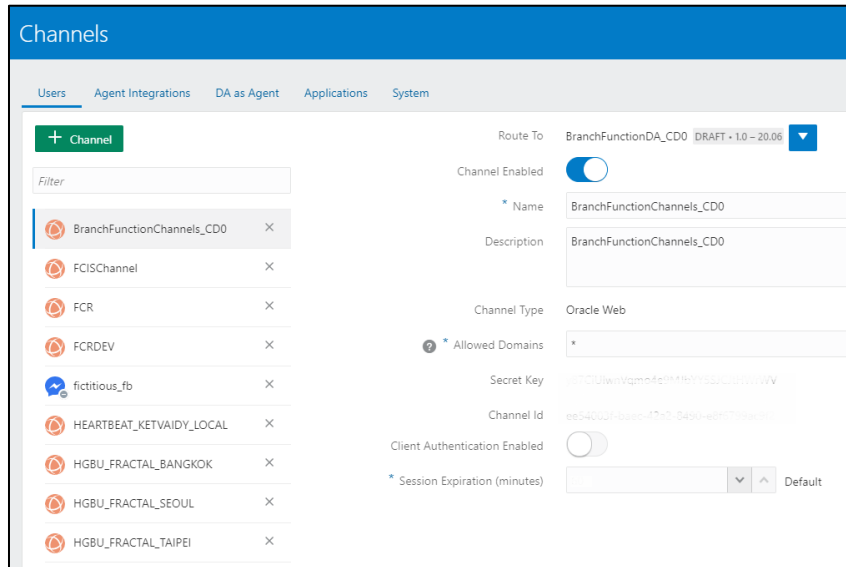
2. Map the skill, which you have created earlier with your Digital-Assistants or import the Digital Assistant from OBBRN_ODA/OBBRN Digital Assistant/OBBRNDigitalAssistant.zip.



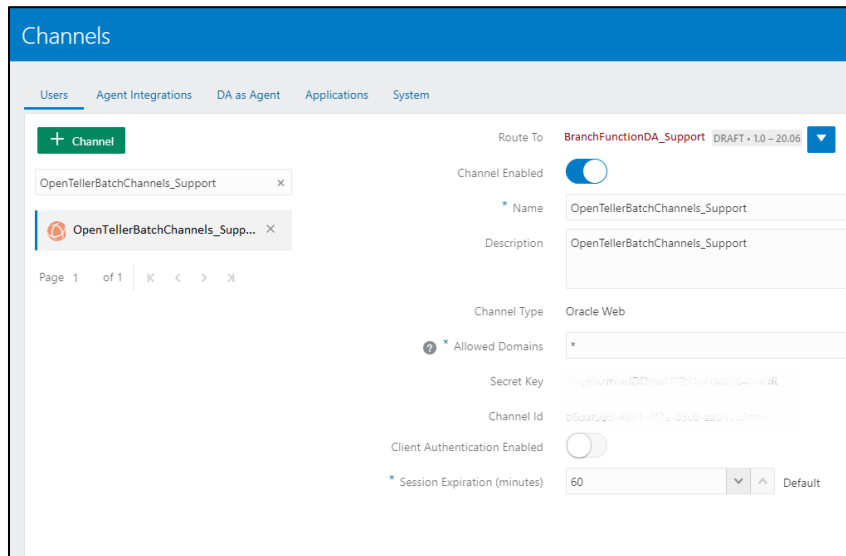
16.6 Map Digital Assistant to Channel

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

This section provides the troubleshooting for the deployment failure in OBORN services.

After upgrade if login issue is there, then regenerate the LDAP password by using the encryption utility available in location : /OBORN_INITIAL_SETUP/plato-security-toolkit-7.5.0.jar

```
java -jar target\plato-security-toolkit-7.5.0.jar
```

```
Enter pass phrase: Test123
```

```
Enter Salt: 0.9412345671234567
```

```
Encrypted Password: AAAAAAAAAAAAAAAAAA282FCixC1h98xgwSOD/U2u1DivwLZ1E=
```

From ARU Link [24814268](#) download OBREMO_TELLER_Consumer.json and import the same in Service consumer screen.

While deploying some services if we get following error, update the value of **management.endpoints.web.exposure.include** to **prometheus,health** in properties table.

```
*****
```

```
APPLICATION FAILED TO START
```

```
*****
```

Description:

Field healthEndpoint in oracle.fsgbu.plato.eventhub.config.CustomHealthIndicator required a bean of type 'org.springframework.boot.actuate.health.HealthEndpoint' that could not be found.

In case if we are upgrading from 14.5.x patchset versions to 14.6, compile the following update scripts in the respective schemas mentioned

```
obremo-srv-bcn-branchcommon-services (in SMS schema):
update "flyway_schema_history" set "checksum"='-422466789' where "checksum"='-
305124349' and "version"='507.101.5.1.0.1.00051001006.1.1';
update "flyway_schema_history" set "checksum"='-1631737937' where "checksum"='-
398084272' and "version"='507.101.5.1.0.1.00051001008.1.1';
update "flyway_schema_history" set "checksum"='835702301' where "checksum"='-472134828'
and "version"='507.101.5.1.0.1.00051001010.1.1';
update "flyway_schema_history" set "checksum"='1166963087' where
"checksum"='689871956' and "version"='507.101.5.1.0.1.00051001014.1.1';
update "flyway_schema_history" set "checksum"='-1395465963' where
"checksum"='1222887044' and "version"='507.101.5.1.0.1.00051001015.1.1';
update "flyway_schema_history" set "checksum"='-334943834' where "checksum"='-
353391908' and "version"='507.101.5.3.0.31.00051001014.6.1';
update "flyway_schema_history" set "checksum"='-277698011' where "checksum"='617712151'
and "version"='507.101.5.3.0.34.00051001008.6.1';
update "flyway_schema_history" set "checksum"='1248351333' where "checksum"='-
307494880' and "version"='507.101.5.3.0.35.00051001006.6.1';
```

```
update "flyway_schema_history" set "checksum"='-64862103' where "checksum"='-
1190065352' and "version"='507.101.5.3.0.65.00051001014.14.1';
update "flyway_schema_history" set "checksum"='-175859948' where
"checksum"='1514989601' and "version"='507.101.5.3.0.66.00051001006.13.1';
```

obremo-srv-pay-payment-services (in SMS schema):

```
update "flyway_schema_history" set "checksum"='-739981464' where "checksum"='204891654'
and "version"='507.103.6.0.0.1.00051001008.9.1';
update "flyway_schema_history" set "checksum"='1597677898' where "checksum"='-
1913659938' and "version"='507.103.6.0.0.3.00051001014.11.1';
update "flyway_schema_history" set "checksum"='-959972392' where
"checksum"='1191251905' and "version"='507.103.6.0.0.6.00051001014.12.1';
update "flyway_schema_history" set "checksum"='-2085275740' where
"checksum"='1350670956' and "version"='507.103.6.0.0.4.00051001008.10.1';
```

obremo-srv-prj-projection-services(in PROJECTION schema):

```
update "flyway_schema_history" set "checksum"='-981015131' where "checksum"='-
1197375056' and "version"='507.108.5.1.0.1.507108014.1.0';
update "flyway_schema_history" set "checksum"='1386806299' where "checksum"='-
643401112' and "version"='507.108.5.1.0.14.507108014.1.0';
update "flyway_schema_history" set "checksum"='1386806299' where
"checksum"='764629798' and "version"='507.108.7.1.0.3.507108014.6.0';
```

While deploying common core services, deploy in following order

- CMC-ACCOUNT-SERVICES
- CMC ADDITIONAL-ATTRIBUTES-SERVICES
- CMC-ADVICE-SERVICES
- CMC-BASE-SERVICES
- CMC-BATCH-SERVICES
- CMC-BRANCH-SERVICES
- CMC-BUSINESSOVERRIDES-SERVICES
- CMC-COREBANKING-ADAPTER-SERVICE
- CMC-CURRENCY-SERVICES
- CMC-DATASEGMENT-SERVICES
- CMC-SCREENCLASS-SERVICES
- CMC-CUSTOMER-SERVICES
- CMC-EXTERNAL-CHART-ACCOUNT
- CMC-EXTERNAL-SYSTEM-SERVICES
- CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES
- CMC-FACILITIES-SERVICE
- CMC-FC-AI-ML-SERVICES
- CMC-ML-INDB-SERVICES
- CMC-NLP-DASHBOARD-WIDGET-SERVICES
- CMC-NLP- MAINTENANCE-SERVICES
- CMC-NLP-OPENNLP-SERVICES
- CMC-NLP-PIPELINE-SERVICES
- CMC-NLP-TEXT-EXTRACTION-SERVICES
- CMC-OBCBS-SERVICES

CMC-OBRH-SERVICE
CMC-REPORT-SERVICE
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
CMC-SETTLEMENTS-SERVICES
CMC-TRANSACTIONCONTROLLER-SERVICES
CMC-TXN-CODE-SERVICES
CMC-CHARGES-CALCULATION-SERVICES
CMC-OPDS-SERVICES
CMC-TXN-CODE-SERVICES



Installation Guide

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