Oracle® Banking Branch Installation Guide





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Preface

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Purpose

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 related to WebLogic installation, WebLogic-managed server creation, and Oracle database installation.

It is recommended to use a dedicated managed server for each of the Oracle Banking Microservices Architecture services, Oracle Banking Branch services, and Oracle Banking Branch user interface.

Audience

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

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The following text conventions are used in this document:

Convention	Meaning	
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.	
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.	

Related Resources

For more information, see these Oracle resources:

- Getting Started User Guide
- Oracle Banking Branch Pre-Installation Guide
- Configuration and Deployment Guide
- FLEXCUBE UBS Database Practices

Organization

This guide allows you to install the below mentioned Oracle Banking Branch services, UI, process flow in the same order:

Oracle Banking Branch Services

- 1. obremo-srv-branch-teller-services
- 2. obremo-srv-brntlr-async-services
- 3. obbrn-srv-biz-businessprocess-services
- 4. obbrn-cmn-businessproductdetails-services
- 5. obbrn-cmn-process-driver-services
- 6. obremo-csr-cus-customer-services
- 7. obremo-dsr-tds-term-deposit-services



- 8. obremo-lsr-loan-services
- 9. obbrn-cmn-branchservicing-services

User Interface

Follow the below steps to migrate from the existing app-shell build to the foundation app shell. With the 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
- cmc-component-server
- moc-component-server
- 4. sms-component-server
- 5. obpy-component-server

For domain-specific war files, deploy the individual component server war file mentioned below:

- obbrn-component-server
- obbrsdep-component-server
- obbrncmn-component-server
- obbrscasa-component-server
- obbrsloan-component-server

Process Workflow - Teller

- 1. CUSTOMERCONTACTUPDATE
- 2. CUSTOMERADDRESSUPDATE
- 3. ACCOUNTADDRESSUPDATE
- 4. TC-SALE
- 5. TC-PURCHASE
- 6. MMACCL
- 7. EodFlipDateBatch

Process Workflow - CASA SERVICING

- 1. UncollectedFunds
- 2. TemporaryOverdraft
- 3. TD Instruction
- 4. TaxWaiver
- Sweep Out CASA
- Sweep Into CASA
- 7. Stop Cheque
- SI Transfer



- Rev Stop Cheque
- 10. ReleaseTrackReceivable
- 11. PrimaryPartyChange
- 12. Nominee Update
- 13. ModifySweepOut
- 14. ModifySweepIn
- 15. Modify SI
- 16. Mod Stop Cheque
- 17. Mod Amount Block
- 18. Memo Maintenance
- 19. JointHolder
- 20. Document Update
- 21. DeleteTrackReceivable
- 22. DebitCardReq
- 23. CustomerRelationshipMaint
- 24. Courtesy Pay
- 25. Con Amount Block
- 26. Cls Amount Block
- 27. CloseSweepOut
- 28. CloseSweepIn
- 29. CloseSI
- 30. Cheque Book Status
- 31. Cheque Book Request
- 32. CASA Status
- 33. CASA Statement
- 34. Card Status
- 35. Card Limits
- 36. Branch Transfer
- 37. AUF_workflow
- 38. Amount Block
- 39. Address Update
- 40. Activate Dormant
- 41. Acct Product Transfer
- 42. AccountPreferences
- 43. AccountGarnish
- 44. Account Sweep In
- 45. Account Statement Frequency
- 46. Account Closure



- 47. Acc Lmt
- 48. Acc Lmt Unsec

ProcessWorkflow - LOANS SERVICING

- LNWOFF
- 2. LNTREV
- 3. LNSCRA
- 4. LNSCRA
- 5. LNRENG
- 6. LNRDCH
- 7. LNPYMT
- 8. LNPYMH
- 9. LNPYCL
- 10. LNPREF
- 11. LNPMPR
- 12. LNMOTI
- 13. LNMOIR
- 14. LNHDSP
- 15. LNFEMW
- 16. LNDSCH
- 17. LNDISB
- 18. LNCORO
- 19. LNCLQT
- 20. LNADHR
- 21. LNADHC
- 22. LNACTV
- 23. LNACON

ProcessWorkflow - DEPOSITS SERVICING

- 1. UPNMTD
- 2. UPNMRD
- 3. UPJHTD
- 4. UPJHRD
- 5. TDTRNREVR
- 6. TDTOPUP
- 7. TDROLLOVER
- 8. TDREDMOTHERMODES
- 9. TDPAYOUTMODIFICATION
- 10. TDPAYIN



- 11. TDCURL
- 12. TDACCMODIFICATION
- **13.** RDREDEMPTION
- 14. RDPAYOUTMODIFICATION
- 15. RDPAYMENT
- 16. RDACCOPEN
- 17. RDACCMODIFICATION
- 18. MOTDBK
- 19. MORDBK
- 20. CRTDBK
- 21. CRRDBK
- 22. CLTDBK
- 23. CLRDBK



1

Setup Database

You need to setup the database-related configuration for the installation of the Oracle Banking Branch. It is recommended to create a different schema for each application.

The prerequisites for setting up the database are as follows:

- 1. Make sure that the pre-installation setup is completed. The pre-installation setup includes the configuration of the database and setting up the setUserOverrides.sh file.
- 2. Configure the placeholders in the setUserOverrides.sh file for Oracle Banking Branch installation. For the values of keys and placeholders, refer to Keys and Placeholders.



To update the placeholders for Oracle Banking Microservices Architecture services, refer to Placeholder Update for Oracle Banking Microservices Architecture Services section in *Configuration and Deployment Guide*.

The setup is designed to work with a separate schema for each application. For information on database best practices, refer to FLEXCUBE UBS Database Practices in the FLEXCUBE Universal Banking documentation library.

To setup the database for Oracle Banking Branch:

 Create the Oracle Banking Branch schemas. For information on schemas to be created, refer to the table below:

Table 1-1 Database Setup

Service Name	Schema Required
obremo-srv-branch-teller- services	Yes (3 domain specific schemas are required named a BRANCH, BRANCHARCH, BRANCHPURGE)
obremo-srv-brntlr-async-services	Yes (BRANCH schema)
obbrn-srv-biz-businessprocess- services	Yes (BIZPRC schema)
obbrn-cmn- businessproductdetails-services	Yes (CMNBUSPROD schema)
obbrn-cmn-process-driver- services	Yes (CMNPRODRV schema)
obremo-csr-cus-customer-services	Yes (CSRCASA schema)
obbrn-cmn-branchservicing- services	Yes (CMNSCRV schema)
obremo-dsr-tds-term-deposit- services	Yes DSRDEPOSIT schema)
obremo-lsr-loan-services	Yes (LSRLOAN schema)



Create the user grants. For more information on creating user grants, refer to Create User Grants.

Keys and Placeholders

The values of the keys and their respective placeholders need to be configured in the setUserOverrides.sh file for installation of the Oracle Banking Branch.

Create User Grants

You need to create the user grants in the necessary schemas to setup the database-related configuration for Oracle Banking Branch.

1.1 Keys and Placeholders

The values of the keys and their respective placeholders need to be configured in the setUserOverrides.sh file for installation of the Oracle Banking Branch.

Values for All Services

The keys and placeholder for all services are as follows:

Table 1-2 Keys and Placeholders (All Services)

Кеу	Placeholder
management.endpoints.web.exposure.include	prometheus,health

Values for plato-orch-service

The key and placeholder values for plato-orch-service are as follows:

Table 1-3 Keys and Placeholders (plato-orch-service)

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

Values for sms-core-services

The key and placeholder values for sms-core-services are as follows:

Table 1-4 Keys and Placeholders (sms-core-services)

Key	Placeholder
user.disableInactiveUsers	N
user.closeDisabledUsers	N
user.disableInactiveUsers.days	0
user.closeDisabledUsers.days	0
user.sameDayLoginRequired	Υ

Values for cmc-obrh-services

The key and placeholder values for cmc-obrh-services are as follows:

Table 1-5 Keys and Placeholders (cmc-obrh-services)

Key	Placeholder	
cmc-obrh- services.audit.reten tion.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.reten tion.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.s cope	This property is used to specify the OIC's oauth scope.	
<pre>cmc-obrh- services.oic.secretS tore.url</pre>	This property is used to specify the OIC's secretstore URL.	
cmc-obrh- services.oic.idcs.ur l	This property is used to specify the OIC's idcs URL.	

Values for plato-alerts-management services

The key and placeholder values for plato-alerts-management services are as follows:

Table 1-6 Keys and Placeholders (plato-alerts-management services)

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

Values for obremo-srv-brntlr-async-services

The key and placeholder values for obremo-srv-brntlr-async-services are as follows:

Table 1-7 Keys and Placeholders (obremo-srv-brntlr-async-services)

Key	Placeholder
<pre>spring.cloud.stream.kafka.binder.txn.zkNo des</pre>	plato.eventhub.txn.zookeper.hosts

Table 1-7 (Cont.) Keys and Placeholders (obremo-srv-brntlr-async-services)

Key	Placeholder
<pre>spring.cloud.stream.kafka.binder.txn.brok ers</pre>	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.tilltot.zkNodes	plato.eventhub.tilltot.zookeper.hosts
spring.cloud.stream.kafka.binder.tilltotD enom.brokers	plato.eventhub.tilltotDenom.broker.host
spring.cloud.stream.kafka.binder.tilltot.brokers	plato.eventhub.tilltot.broker.hosts
spring.cloud.stream.kafka.binder.tilltotD enom.zkNodes	plato.eventhub.tilltotDenom.zookeper.ho sts
spring.cloud.stream.kafka.binder.casaBind er.brokers	plato.eventhub.casaBinder.broker.hosts
spring.cloud.stream.kafka.binder.casaBinder.zkNodes	plato.eventhub.casaBinder.zookeper.hos ts

Values for obremo-srv-brntlr-async-services

The keys and placeholder values for obremo-srv-brntlr-async-services are as follows:

Table 1-8 Keys and Placeholders (obremo-srv-brntlr-async-services)

Key	Placeholder
plato.eventhub.kafka.brokers	plato.eventhub.broker.hosts
plato.eventhub.zk.nodes	plato.eventhub.zookeper.hosts

Values for plato-alerts-management-services

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

Table 1-9 Keys and Placeholders (plato-alerts-management-services)

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
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



Values for plato-feed-services

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

Table 1-10 Keys and Placeholders (plato-feed-services)

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.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

Values for plato-password-policy-services

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

Table 1-11 Keys and Placeholders (plato-password-policy-services)

Key	Placeholder
server.port	plato-password-policy-service.server.port
flyway.domain.db.jndi	plato-password-policy-service.jndi
flyway.domain.schemas	plato-password-policy-service.schemas
flyway.domain.locations	plato-password-policy-service.locations

Values for cmc-fc-ai-ml-services

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

Table 1-12 Keys and Placeholders (cmc-fc-ai-ml-services)

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



Table 1-12 (Cont.) Keys and Placeholders (cmc-fc-ai-ml-services)

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

Values for obremo-csr-cus-customer-services

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

Table 1-13 Keys and Placeholders (obremo-csr-cus-customer-services)

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
hostValidation.enabled	obremo-csr-cus-customer-services.hostValidation.enabled
oflo.enabled	obremo-csr-cus-customer-services.oflo.enabled(values supported true or false)
coherence.enabled	obremo-csr-cus-customer-services.coherence.enabled
loadCacheOnStartUp	obremo-csr-cus-customer-services.loadCacheOnStartUp

Values for obbrn-cmn-process-driver-services

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

Table 1-14 Keys and Placeholders (obbrn-cmn-process-driver-services)

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
tellerIntegrationEnabled	obbrn-cmn-process-driver-services.tellerIntegrationEnabled (values supported false or true)

Values for obbrn-cmn-businessproductdetails-services

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



Table 1-15 Keys and Placeholders (obbrn-cmn-businessproductdetails-services)

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

Values for obremo-dsr-tds-term-deposit-services

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

Table 1-16 Keys and Placeholders (obremo-dsr-tds-term-deposit-services)

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.productPr ocessor	dsr.productProcessor
flyway.sms.placeholders.obb rn.default.source_system.de posit	obbrn-cmn-branchservicing- services.default.source_system.deposit (Currently supported values OBRDEP and FCUBS)
coherence.enabled	coherence.enabled
loadCacheOnStartUp	loadCacheOnStartUp

Values for obbrn-cmn-branchservicing-services

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

Table 1-17 Keys and Placeholders (obbrn-cmn-branchservicing-services)

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
flyway.sms.placeholders.obb rn.default.source_system.ca sa	obbrn-cmn-branchservicing- services.default.source_system.casa(Currently supported values OBRACC and FCUBS)
plato.service.scheduler.use rid	PLATO_DEBUG_USER_ID



Table 1-17 (Cont.) Keys and Placeholders (obbrn-cmn-branchservicing-services)

Key	Placeholder
obbrn.default.source_system .deposit	obbrn-cmn-branchservicing- services.default.source_system.deposit (values supported FCUBS and OBRDEP)
obbrn.default.source_system .casa	obbrn-cmn-branchservicing- services.default.source_system.casa (values supported FCUBS and OBRACC)
obbrn.default.source_system .casaroute	obbrn-cmn-branchservicing- services.default.source_system.casaroute (values supported FCUBS and OBRACC)
coherence.enabled	coherence.enabled
loadCacheOnStartUp	loadCacheOnStartUp

Values for obremo-lsr-loan-services

The keys and placeholder values for obremo-lsr-loan-services are as follows:

Table 1-18 Keys and Placeholders (obremo-lsr-loan-services)

Key	Placeholder
server.port	obremo-lsr-loan-services.server.port
flyway.domain.schemas	obremo-lsr-loan-services.schemas
flyway.domain.db.jndi	obremo-lsr-loan-services.jndi
coherence.enabled	obremo-lsr-loan-services.coherence.enabled
obbrn.default.source_system.loan	obbrn.default.source_system.loan(values supported FCUBS and OBRL)

1.2 Create User Grants

You need to create the user grants in the necessary schemas to setup the database-related configuration for Oracle Banking Branch.

Make sure that the database setup and database link creation are completed as specified in Setup Database.

The common grants, common core grants, and Security Management System (SMS) grants are provided to the users. For more information on default grants provided to the users, refer to the table below.

Table 1-19 Grants Provided to the Users

Schema	Grants				
Oracle Banking Branch schema	• grant create session to PLATO;				
(common grants)	• grant create table to PLATO;				
	• grant create sequence to PLATO;				



Table 1-19 (Cont.) Grants Provided to the Users

Schema	Grants				
Common Core Schema (common core grants)	 grant create procedure to CMNCORE; grant create synonym to CMNCORE; grant create sequence to CMNCORE; 				
SMS Schema (SMS grants)	grant create function to CMNCORE;grant create synonym to SMS;grant create procedure to SMS;grant create sequence to SMS;				

View creation grants:

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

- grant create synonym to BRANCH;
- grant create procedure to BRANCH;
- grant create sequence to BRANCH;
- grant create job to BRANCH;
- grant create view to BRANCH;
- grant create mining model to BRANCH;
- grant create any mining model to BRANCH;
- grant alter any mining model to BRANCH;
- grant drop any mining model to BRANCH;
- grant select any mining model to BRANCH;
- grant comment any mining model to BRANCH;
- grant execute on DBMS DATA MINING to BRANCH;
- grant create table to BRANCH;
- grant create session to BRANCH;
- grant create type to BRANCH;



2

Product Installation using Installer

This section provides the systematic information to install Oracle Banking Branch application using installer.

This topic contains the following subtopics:

- Pre-requisite
- Installer Path

2.1 Pre-requisite

Before proceeding with installation setup, make sure that the database installation is completed and required schemas are created.

2.2 Installer Path

The following table provides the download path of the installer:

Table 2-1 Installer Download Path

Applica tion	Archive Name	OSDC Path
OBMA	obma.zip	/INSTALLER
OBBRN	obbrn.zip	



To install the application using installer, refer to **Oracle Banking Microservices Architecture Installer Guide**.

Configure Oracle Banking Branch Service Domains

You need to configure the services and domains as a part of the installation of the Oracle Banking Branch.

The prerequisites are as follows:

- The machine should have Java JDK has installed.
- Install the Oracle Banking Microservices Platform Foundation services. For information on how to install, refer to the Oracle Banking Microservices Platform Foundation Installation Guide.
- 3. The machine should have Fusion Middleware Configuration Wizard installed.



For the exact version to be installed, refer to the *Software Pre-requisites* section in the **Oracle Banking Branch License Guide**.

The steps for creating all Oracle Banking Branch domains are the same, and the properties like port numbers and names will be changing based on the domain. It is recommended to have a separate domain for the Oracle Banking Branch application.

Create and configure the following services for the Oracle Banking Branch domain.

Note:

For more information on domain creation and configuration, refer to the *How to create and Cluster Configuration* section in the **Configuration and Deployment Guide**.

Table 3-1 Oracle Banking Branch Services

Service Name	Domain Name
obremo-srv-branch-teller-services	Oracle Banking Branch Domain
obremo-srv-brntlr-async-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
obremo-dsr-tds-term-deposit-services	Oracle Banking Branch Domain

Table 3-1 (Cont.) Oracle Banking Branch Services

Service Name	Domain Name
obremo-lsr-loan-services	Oracle Banking Branch Domain



Create Data Sources

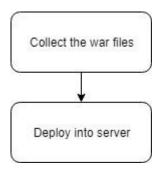
You need to create the data sources in the necessary domains for the deployment of the Oracle Banking Branch.

The prerequisites are as follows:

- Make sure that the database setup for Oracle Banking Branch is completed before deployment setup.
- The data sources for respective microservices must be created before deployment of the application onto managed servers. Each of the data sources targets the corresponding servers on which the application will be deployed.

The following diagram depicts the process of creating data sources.

Figure 4-1 Process of Data Source Creation



To create the data sources:

1. Create the data sources on each domain.



For more information on data source creation, refer to the *How to create Data* sources section in **Configuration and Deployment Guide**.

Table 4-1 Data Sources

Service Name Data Source Name		Data Source JNDI	Targets		
obremo-srv-branch- teller-services	BRANCH	jdbc/SRVBRNTLR	OBBRN_SRV_Server1		
obremo-srv-brntlr- async-services	BRANCH	jdbc/SRVBRNTLR	OBBRN_SRV_Server1		

Table 4-1 (Cont.) Data Sources

Service Name	Data Source Name	Data Source JNDI	Targets
obbrn-srv-biz- businessprocess- services	BIZPRC	jdbc/BIZPRC	OBBRN_SRV_Server1
obbrn-cmn- businessproductdeta ils-services			OBBRN_CSR_Server1
obbrn-cmn-process- driver-services	CMNPRODRV	jdbc/CMNPRODRV	OBBRN_CSR_Server1
obremo-csr-cus- customer-services	CSRCASA	jdbc/CSRCASA	OBBRN_CSR_Server1
obbrn-cmn- branchservicing- services	CMNSCRV	jdbc/CMNSCRV	OBBRN_CSR_Server1
obremo-dsr-tds- term-deposit- services	DSRDEPOSIT	jdbc/DSRDEPOSIT	OBBRN_DSR_Server1
obremo-lsr-loan- services	LOAN	jdbc/LSRLOAN	OBBRN_LSR_Server1

2. Map the following data sources to all the newly created managed servers for Oracle Banking Branch.



As part of the Oracle Banking Branch, the flyway JNDI changes are incorporated. In order to deploy the services successfully, the data sources need to be mapped.

Table 4-2 Additional Data Sources

Data Source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATO_UI	jdbc/ PLATO_UI_CONFIG	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATOFEED	jdbc/PLATOFEED	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1



Table 4-2 (Cont.) Additional Data Sources

Data Source Name	Data Source JNDI	Targets
SMS	jdbc/sms	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
COMMON CORE	jdbc/CMNCORE	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATO-O	jdbc/PLATO-O	OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
REPORTSERVICE	jdbc/REPORTSERVICE	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATOSEC	jdbc/PLATO_SECURITY	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATORULE	jdbc/PLATORULE	OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATOBATCH	jdbc/PLATOBATCH	OBBRN_SRV_Server1
PLATOARCH	jdbc/PLATOARCH	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
PLATOFDT	jdbc/PLATOFDT	OBBRN_SRV_Server1, OBBRN_CSR_Server1, OBBRN_DSR_Server1, OBBRN_LSR_Server1
SRVBRNARCH	jdbc/SRVBRNARCH	OBBRN_SRV_Server1
SRVBRNPURGE	jdbc/SRVBRNPURGE	OBBRN_SRV_Server1



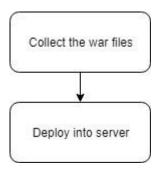
Deploy Services

You need to deploy the services in the specified order for the Oracle Banking Branch application to run.

Make sure that the database setup and data sources creation for Oracle Banking Branch are completed before application deployment.

Each of the services corresponds to a specific war file that needs to be deployed into the server. The following diagram depicts the process of deploying the war files.

Figure 5-1 Process of Deployment



Deploy the war files one after the other in the specified order. For more information on deployments, refer to the *How to Deploy* section in the **Configuration and Deployment Guide**.



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

Table 5-1 Deployments List

Application	Archive name	OSDC path	Targets
SRV Business Process	obbrn-srv-biz- businessprocess-	{unzip the file} OBBRN\obbrn-	OBBRN_SRV_Server1
Service	services- {version}.war	srv-biz- businessproce ss-services	

Table 5-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
Process Driver Service	obbrn-cmn-process- driver-services- {version}.war	{unzip the file} OBBRN\CASA\ob brn-cmn- process- driver- services	OBBRN_CSR_Server1
Branch Teller Service	obremo-srv-branch- teller-services- {version}.war	<pre>{unzip the file}obremo- srv-branch- teller- services</pre>	OBBRN_SRV_Server1
Branch Async Service	obremo-srv-brntlr- async-services- {version}.war	{unzip the file} OBBRN\obremo- srv-brntlr- async- services	OBBRN_SRV_Server1
Business Product Service	obbrn-cmn- businessproductdetai ls-services- {version}.war	<pre>{unzip the file} OBBRN\CASA\ob brn-cmn- businessprodu ctdetails- services</pre>	OBBRN_CSR_Server1
CASA Customer Service	obremo-csr-cus- customer-services- {version}.war	{unzip the file} OBBRN\CASA\ob remo-csr-cus- customer- services	OBBRN_CSR_Server1
Branch Servicing	obbrn-cmn- branchservicing- services- {version}.war	{unzip the file} OBBRN\CASA\ obbrn-cmn- branchservici ng-services	OBBRN_CSR_Server1
Deposit Service	obremo-dsr-tds-term-deposit-services-{version}.war	{unzip the file} OBBRN\obremo- dsr-tds-term- deposit- services	OBBRN_DSR_Server1
Loan Service	obremo-lsr-loan- services- {version}.war	{unzip the file} OBBRN\ obremo-lsr- loan-services	OBBRN_LSR_Server1



Setup Oracle Banking Branch Kafka

You need to create the necessary topics for the dashboard, alerts, and integration of Oracle FLEXCUBE Onboarding with Oracle Banking Branch.

Make sure that the Kafka installation is completed. For installation of Kafka, refer to the *Oracle Banking Microservices Architecture Software Deployment* chapter in **Oracle Banking Microservices Platform Foundation Installation Guide**.

As a part of the Kafka setup, the topics can be created for the following configurations:

- Email approval and customer notification
- Integration of Oracle Banking Origination with Oracle Banking Branch

Create the topics as follows:

- To configure email approval and customer notification, create the below topic:
 AlertMessage
- To integrate Oracle FLEXCUBE Onboarding with Oracle Banking Branch, create the below topic:

InitialFundingAck

- To enable DSR Advice generation on during processing, create the below topic: dsrAdviceGeneration
- 4. To enable the email approval and customer notifications, verify the below properties after the installation of Kafka. For information on placeholder updates, refer to Keys and Placeholders.

Figure 6-1 Properties for Notifications

t .		1		1		1		
APPLICATION		PROFILE		LABEL		KEY		VALUE
obremo-srv-brntlr-async-services	•••	jdbc		jdbc		plato.eventhub.kafka.brokers	•••	brokerserver:brokerport
obremo-srv-brntlr-async-services	•••	jdbc		jdbc	•••	plato.eventhub.zk.nodes	•••	zookeeperserver:zookeeperport
obremo-srv-brntlr-async-services	•••	jdbc	•••	jdbc	•••	plato.eventhub.kafka.brokers	•••	brokerserver:brokerport
obremo-srv-brntlr-async-services	•••	jdbc		jdbc		plato.eventhub.zk.nodes	•••	zookeeperserver:zookeeperport
obremo-srv-brntlr-async-services	•••	jdbc	•••	jdbc	•••	emailPassword	•••	base64 password
obremo-srv-brntlr-async-services		jdbc		jdbc		pollingFrequency	•••	50
obremo-srv-brntlr-async-services	•••	jdbc	•••	jdbc	•••	emailServerHost	•••	smtp_host@server.com
obremo-srv-brntlr-async-services	•••	jdbc		jdbc		emailServerPort	•••	smtp_port
obremo-srv-brntlr-async-services	•••	jdbc	•••	jdbc		pollingEmail	•••	polling Email Id
plato-alerts-management-services	•••	jdbc	•••	jdbc	•••	plato.eventhub.kafka.brokers		brokerserver:brokerport
plato-alerts-management-services		jdbc	•••	jdbc	•••	plato.eventhub.zk.nodes		zookeeperserver:zookeeperport
plato-alerts-management-services	•••	jdbc	• • •	jdbc	• • •	EMAIL.USER_ID		fullemailid@server.com
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.AUTH		false
plato-alerts-management-services	•••	jdbc	•••	jdbc		EMAIL.SOCKETFACTORY_PORT		25



The SMTP server must be available for sending the email.



7

Configure FOP

You need to perform the configurations for Formatting Objects Processor (FOP) as a part of the installation of the Oracle Banking Branch.

Before you adopt FOP servers, you require to deploy plato-report-services.

To adopt FOP servers, follow the below steps to generate reports.

- Copy the template_metadata.zip 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.
- 2. Copy the template_metadata.zip 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.
- 3. Create a directory/scratch/OBMA/report-service/output (can be any valid location in server) and provide Read/Write access.
- 4. Copy the fop.xconf on /scratch/OBMA/report-service (can be any valid location in server) and provide Read/Write access.



Configure SSL

The configuration of SSL needs to be completed for the installation of the Oracle Banking Branch.

Make sure that the Oracle Weblogic domain with the managed servers is created.

To configure SSL:

- 1. Start the plato-apigateway-router service with SSL arguments and make it registered in eureka.
- Update the SSL URL in the PLATOUI schema's table PRODUCT_SERVICES_ENV_LEDGER.
 For example, https://<localhost>:<SSL_PORT>.
- 3. Update the placeholder value (-Dapigateway.url) in the setUseroverride.sh file to the SSL link.

```
For example, JAVA_OPTIONS="${JAVA_OPTIONS} -Dapigateway.url=https://
<localhost>:<SSL PORT>" export JAVA OPTIONS;
```

4. Restart and refresh all the managed servers.

9

Restart and Refresh

Once the deployments are completed, restart all the managed servers. For each application call path "/refresh" for refreshing the configuration properties.



To restart the server, refer to **Restart Server** section in **Configuration and Deployment Guide**.



10

Logging Area

The logs area contains the logs after deployment of Oracle Banking Branch applications in the WebLogic server.

The Oracle Banking Branch application writes logs in the below area of the server:

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

A sample of logging area is as follows:

Table 10-1 Sample of Logging Area

Sample	Value
Domain Name	branch_domain
managed_server Name	BRANCHAPP
Domain Area	For example, a domain is created with the above domain and managed server names in the following area of the server: -/middleware/user_projects/domains/ branch_domain
Logging area for Oracle Banking Branch applications	~/middleware/user_projects/domains/ branch_domain/servers/BRANCHAPP/logs/ BRANCHAPP.out

Configure Oracle Banking Branch UI Domain and Cluster

The configurations for the new domain and cluster need to be completed as a part of the installation of the Oracle Banking Branch.

The prerequisites are as follows:

- 1. The machine should have Java JDK has installed.
- The machine should have Fusion Middleware Configuration Wizard installed.



For the exact version to be installed, refer to the *Software Pre-requisites* section in the **Oracle Banking Branch License Guide**.

To configure the domain and cluster:

On the Fusion Middleware Configuration Wizard window, click Create Domain.
 The Create Domain segment is displayed.

Figure 11-1 Create Domain



- On the Configuration Type segment, select Create a new domain, and specify the file path of the domain in the Domain Location field.
- Click Next.

The Administration Server segment is displayed.

Figure 11-2 Administration Server Details



 Specify the fields in the Administration Server segment. For more information on fields, refer to the field description table.

Table 11-1 Administration Server - Field Description

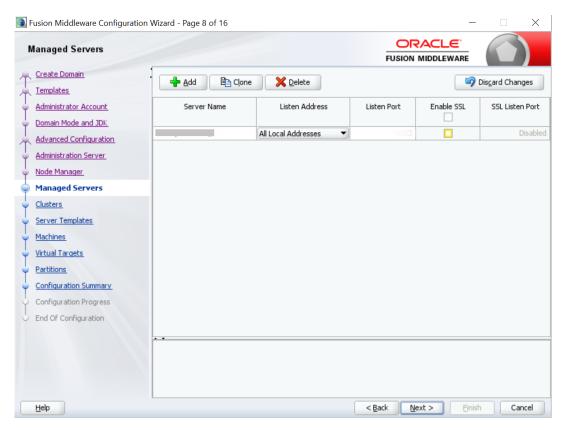
Field	Description
Server Name	Specify the name of the server.
Listen Address	Select All Local Addresses from the drop-down values.
Listen Port	Specify the listen port.
Enable SSL	Select if the SSL needs to be enabled.
SSL Listen Port	Specify the SSL listen port.
	Note: This field is enabled only if Enable SSL is selected.



Click Next.

The Managed Servers segment is displayed.

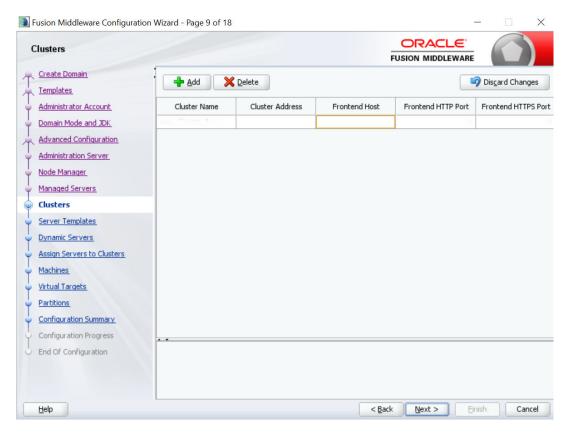
Figure 11-3 Managed Servers



- 6. Add an entry for the managed server in the **Managed Servers** segment. For more information on fields, refer to the Table 11-1.
- 7. Click Next.

The **Clusters** segment is displayed.

Figure 11-4 Clusters



8. Add an entry for the cluster in the **Clusters** segment. For more information on fields, refer to the field description table.

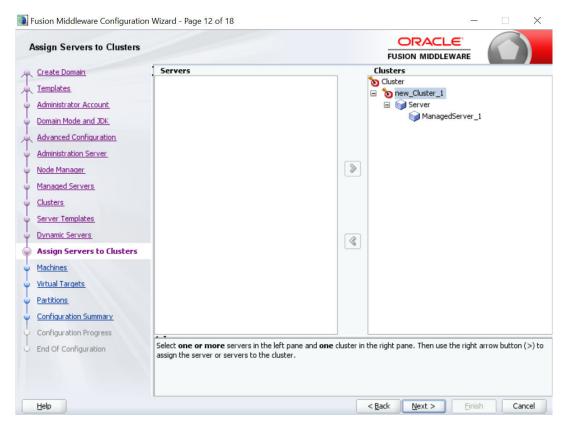
Table 11-2 Clusters - Field Description

Field	Description
Cluster Name	Specify the name of the cluster.
Cluster Address	Specify the address of the cluster.
Frontend Host	Specify the value of the front-end host.
Frontend HTTP Port	Specify the value of the front-end HTTP port.
Frontend HTTPS Port	Specify the value of the front-end HTTPS port.

9. Click Next.

The **Assign Servers to Clusters** segment is displayed.

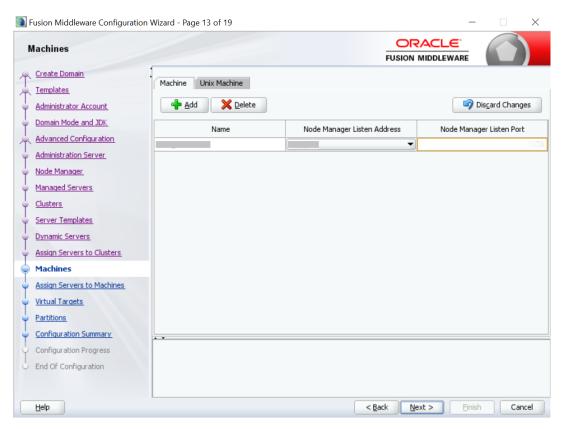
Figure 11-5 Assign Servers to Clusters



- 10. Assign the necessary servers in the Assign Servers to Clusters segment.
- 11. Click Next.

The **Machines** segment is displayed.

Figure 11-6 Machines



12. Add an entry for the machine in the **Machines** segment. For more information on the fields, refer to the field description table.

Table 11-3 Machines - Field Description

Field	Description
Name	Specify the name of the machine.
Node Manager Listen Address	Select the listen address of the node manager from the drop-down values.
Node Manager Listen Port	Specify the listen port of the node manager.

13. Click Next.

The **Assign Servers to Machines** segment is displayed.

Cancel

Fusion Middleware Configuration Wizard - Page 14 of 19 ORACLE! Assign Servers to Machines FUSION MIDDLEWARE Servers Machines Create Domain AdminServer 🝗 Machine <u>Templates</u> Administrator Account ManagedServer_1 Domain Mode and JDK Advanced Configuration Administration Server > Node Manager Managed Servers Clusters Server Templates Dynamic Servers 3 Assign Servers to Clusters Assign Servers to Machines Virtual Targets <u>Partitions</u> Configuration Summary Select one or more servers in the left pane and one machine in the right pane. Then use the right arrow button (>) Configuration Progress to assign the server or servers to the machine. End Of Configuration

< Back

Next >

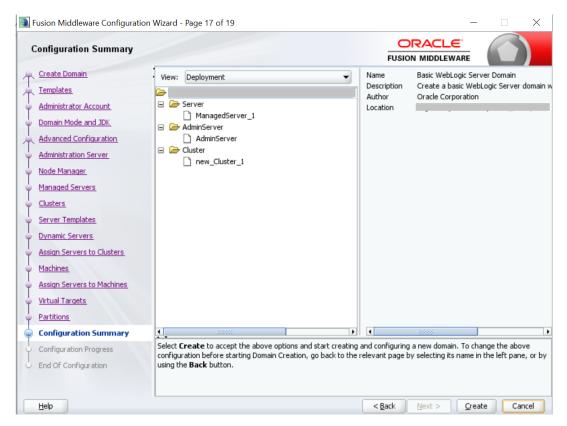
Figure 11-7 Assign Servers to Machines

- **14.** Assign the required machine in the **Assign Servers to Machines** segment.
- 15. Click Next.

<u>H</u>elp

The Configuration Summary segment is displayed.

Figure 11-8 Configuration Summary



16. Click Create to configure a new domain.

Deploy Oracle Banking Branch Processes

You need to deploy the conductor-based processes as a part of the installation of the Oracle Banking Branch.

Before deploying the processes the following section needs to be updated with the server IP/ port for the endpoints used in the process. For each process, open the process to find for http request and modify the following in the URI.

Table 14-1 Updating the Process

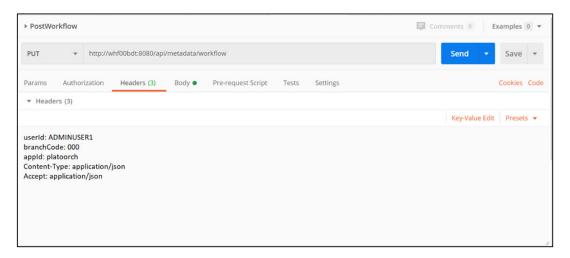
Term	Value
uri	http://{{PROCESS_SERVER_HOST}}:{{PROCESS_SERVER_PORT}}/ plato-orch-service/api/metadata/workflow
{{PROCESS_SERVER_HOS T}}	IP of the conductor server
{{PROCESS_SERVER_POR T}}	Port of the conductor server

For the list of the conductor-based processes to be deployed, refer to Oracle Banking Branch Processes. The server names, domain names need not be the same as this document provides. The steps to deploy a process remains the same for all the workflow files.

To deploy the conductor-based processes:

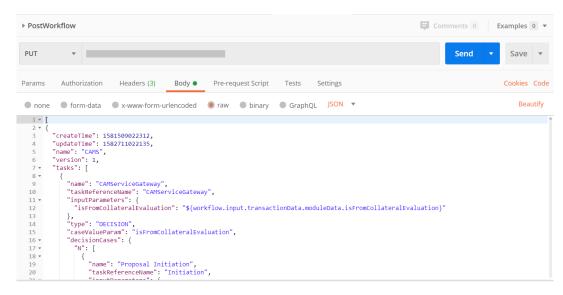
- 1. Launch Postman.
- Create a new request (if not done already) and select the POST method.
 If the process flow is already deployed and needs to be updated, then the method should be PUT.
- 3. Select the **Headers** tab, and input the header params as shown below:

Figure 14-1 Post Work Flow - Headers



4. Select the **Body** tab, and paste the body of the message with the content from the process file

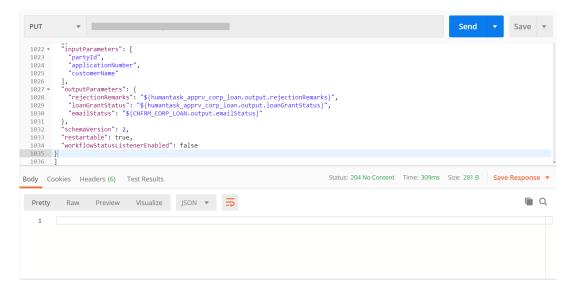
Figure 14-2 Post Work Flow - Body



Click Send.

The response status **204** is returned from the server.

Figure 14-3 Response Status



Oracle Banking Branch Processes

The conductor-based processes are required to be deployed for the installation of the Oracle Banking Branch.

14.1 Oracle Banking Branch Processes

The conductor-based processes are required to be deployed for the installation of the Oracle Banking Branch.

Table 14-2 Oracle Banking Branch Processes

1 CUSTOMERCONTACTUPDATE None 2 CUSTOMERADDRESSUPDATE None 3 ACCOUNTADDRESSUPDATE None 4 TC-SALE None 5 TC-PURCHASE None 6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPWFR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNGCH None 24 <t< th=""><th>Serial</th><th>Process Name</th><th>Dependent process</th></t<>	Serial	Process Name	Dependent process
2 CUSTOMERADDRESSUPDATE None 3 ACCOUNTADDRESSUPDATE None 4 TC-SALE None 5 TC-PURCHASE None 6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOIT None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO	Number		
3 ACCOUNTADDRESSUPDATE None 4 TC-SALE None 5 TC-PURCHASE None 6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT N			
4 TC-SALE None 5 TC-PURCHASE None 6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMT None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOIT None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None	—		None
5 TC-PURCHASE None 6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOII None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None			
6 MMACCL None 7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMT None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNACHY None 29 LNACON None <td>4</td> <td>TC-SALE</td> <td>None</td>	4	TC-SALE	None
7 eodFlipDateBatch None 8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNACTV None 30 LNACON None 31 UPNMTD None <td>5</td> <td></td> <td>None</td>	5		None
8 LNWOFF None 9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNACTV None 30 LNACON None 31 UPNMTD None	6	MMACCL	None
9 LNTREV None 10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNACTV None 30 LNACON None 31 UPNMTD None	7	eodFlipDateBatch	None
10 LNSCRA None 11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACON None 31 UPNMTD None	8	LNWOFF	None
11 LNSCRA None 12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	9	LNTREV	None
12 LNRENG None 13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	10	LNSCRA	None
13 LNRDCH None 14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	11	LNSCRA	None
14 LNPYMT None 15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	12	LNRENG	None
15 LNPYMH None 16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	13	LNRDCH	None
16 LNPYCL None 17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	14	LNPYMT	None
17 LNPREF None 18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	15	LNPYMH	None
18 LNPMPR None 19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	16	LNPYCL	None
19 LNMOTI None 20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	17	LNPREF	None
20 LNMOIR None 21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	18	LNPMPR	None
21 LNHDSP None 22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	19	LNMOTI	None
22 LNFEMW None 23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	20	LNMOIR	None
23 LNDSCH None 24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	21	LNHDSP	None
24 LNDISB None 25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	22	LNFEMW	None
25 LNCORO None 26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	23	LNDSCH	None
26 LNCLQT None 27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	24	LNDISB	None
27 LNADHR None 28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	25	LNCORO	None
28 LNADHC None 29 LNACTV None 30 LNACON None 31 UPNMTD None	26	LNCLQT	None
29 LNACTV None 30 LNACON None 31 UPNMTD None	27	LNADHR	None
30 LNACON None None	28	LNADHC	None
31 UPNMTD None	29	LNACTV	None
31 UPNMTD None	30	LNACON	None
	31		
	32	UPNMRD	None
33 UPJHTD None			
34 UPJHRD None			
35 TDTRNREVR None			
36 TDTOPUP None			
37 TDROLLOVER None			

Table 14-2 (Cont.) Oracle Banking Branch Processes

Serial Number	Process Name	Dependent process
38	TDREDMOTHERMODES	None
39	TDPAYOUTMODIFICATION	None
40	TDPAYIN	None
41	TDCURL	None
42	TDACCMODIFICATION	None
43	RDREDEMPTION	None
44	RDPAYOUTMODIFICATION	None
45	RDPAYMENT	None
46	RDACCOPEN	None
47	RDACCMODIFICATION	None
48	MOTDBK	None
49	MORDBK	None
50	IRAUPNM	None
51	IRATDTP	None
52	IRAREDM	None
53	IRAPYIN	None
54	IRAPOMN	None
55	CRTDBK	None
56	CRRDBK	None
57	CLTDBK	None
58	CLRDBK	None
59	UncollectedFunds	None
60	TemporaryOverdraft	None
61	TD Instruction	None
62	TaxWaiver	None
63	Sweep Out CASA	None
64	Sweep In to CASA	None
65	Stop Cheque	None
66	SI Transfer	None
67	Rev Stop Cheque	None
68	ReleaseTrackReceivable	None
69	PrimaryPartyChange	None
70	Nominee Update	None
71	ModifySweepOut	None
72	ModifySweepIn	None
73	Modify SI	None
74	Mod Stop Cheque	None
75	Mod Amount Block	None
76	Memo Maintenance	None
77	JointHolder	None
78	Document Update	None
79	DeleteTrackReceivable	None
. •		1

Table 14-2 (Cont.) Oracle Banking Branch Processes

Serial Number	Process Name	Dependent process
80	DebitCardReq	None
81	CustomerRelationshipMaint	None
82	Courtesy Pay	None
83	Con Amount Block	None
84	Cls Amount Block	None
85	CloseSweepOut	None
86	CloseSweepIn	None
87	CloseSI	None
88	Cheque Book Status	None
89	Cheque Book Request	None
90	CASA Status	None
91	CASA Statement	None
92	Card Status	None
93	Card Limits	None
94	Branch Transfer	None
95	AUF_workflow	None
96	Amount Block	None
97	Address Update	None
98	Activate Dormant	None
99	Acct Product Transfer	None
100	AccountPreferences	None
101	AccountGarnish	None
102	Account Sweep In	None
103	Account Statement Frequency	None
104	Account Closure	None
105	Acc Lmt	None
106	Acc Lmt Unsec	None
107	CMC_CHARGES_Consumer (Oracle Banking Routing Hub json config for RP integration)	None
108	PLATOCORE_Consumer (Oracle Banking Routing Hub json config for Account Replication)	None

Note:

The JSON files for the <code>CMC_CHARGES_Consumer</code> and <code>PLATOCORE_Consumer</code> processes will be available in the folder <code>COMMON_CORE_ROUTING_CONFIGURATION</code> from the Oracle Banking Branch sources.

Launch Oracle Banking Branch from FLEXCUBE Universal Banking

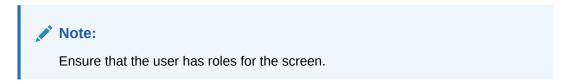
You need to setup the database-related configuration for the installation of the Oracle Banking Branch. It is recommended to create a different schema for each application.

Log in to the FLEXCUBE Universal Banking Homepage. For information on how to log in, refer to the *Procedures User Guide* in the FLEXCUBE Universal Banking Documentation Library.

The setup is designed to work with a separate schema for each application.

To launch Oracle Banking Branch from FLEXCUBE Universal Banking:

1. On the Homepage, specify **CSDNGUIM** in the text box, and click the next arrow.



The **Next Gen UI Products Maintenance** screen is displayed.

Figure 15-1 Next Gen UI Products Maintenance



On the Next Gen UI Products Maintenance screen, and update the Oracle Banking Microservices Architecture Product URL.



For more information on the screen, refer to the FLEXCUBE Universal Banking Documentation Library.

A new Function ID NGTELLER is released as static data.

- 3. Make sure that the user roles are maintained for the new Function ID.
- 4. Once the roles are maintained, click **Next Gen UI** on the toolbar.

The **Next Gen UI Dashboard** will be displayed with the list of products.

5. Click **Retail** product.



Ensure the same user id is maintained for the retail product and it has necessary roles.

The Oracle Banking Microservices Architecture Teller Dashboard is displayed.

- 6. Configure Oracle Banking Microservices Architecture as follows:
 - a. Update the SECURITY_CONFIG table in the PLATO_SECURITY schema. For information on the entries, refer to the table below:



In addition, SSL should be enabled in the Oracle Banking Branch application.

Table 15-1 Configurations for Oracle Banking Microservices Architecture

Key	Value
INTEGRATION_ENABLED	true
INTEGRATION_CALLBACK_URL	https://FCUBShostname:FCUBSport/FCJNeoWeb/ ValidationService/FCNonceValidation/validate
IS_SSO_CONFIGURED	true
AUTO_TOKEN_REGENERATE_MODE	true

b. Update the hostname and port number of FLEXCUBE Universal Banking in the integration callback URL.

Configure Oracle Digital Assistant

You need to configure the Oracle Banking Branch to interface with Oracle Digital Assistance (ODA) for Chatbot use cases.

Log in to the Oracle Banking Branch Homepage. For information on how to log in, refer to the **Getting Started User Guide**.

To configure the ODA, the digital assistant wizard CCA of the Oracle Banking Microservices Architecture has a configuration to connect to ODA. This wizard is used to enable ODA's Client SDK for JavaScript to add live messaging to the web application.

Setup Oracle Banking Microservices Architecture as follows:

 On the Homepage, in the user profile menu, select the Virtual Assistant switch to enable the Digital Assistance.

The web-sdk will display a chatbot icon, which can be used for communication with ODA's Server.

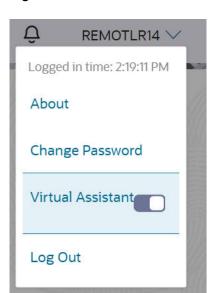
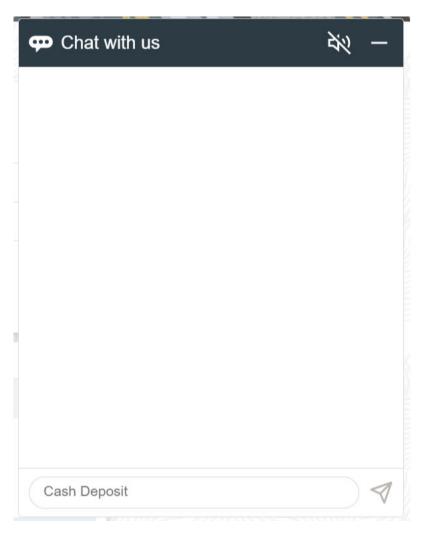


Figure 16-1 User Profile Menu

Figure 16-2 Chatbot



- 2. Configure Oracle Banking Microservices Architecture as follows:
 - a. Update the following entries in the PRODUCT_SERVICES_CTX_LEDGER table in the PLATOUI schema.

Table 16-1 Entries for PRODUCT_SERVICES_CTX_LEDGER table

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 (web-sdk). Values to be fetched from ODA server configured to communicate with ODA client (web-sdk). The isODA flag needs to be set to Y to enable chatbot wizard.	

b. Update the following entries in the PRODUCT_SERVICES_ENV_LEDGER table in the PLATO schema.

Table 16-2 Entries for PRODUCT SERVICES ENV LEDGER table

Key	Value	
Product Name	ODA	
URL	https://hostname:platodiscoveryport/	
	Note: Update the desired hostname and port number.	

- 3. Setup the ODA instance and publish the digital assistant. For information refer to Configure ODA Instance.
- Configure ODA Instance
 You need to configure the ODA instance and publish the skills as a part of the ODA digital
 assistant.

16.1 Configure ODA Instance

You need to configure the ODA instance and publish the skills as a part of the ODA digital assistant.

Log in to ODA Homepage as follows:

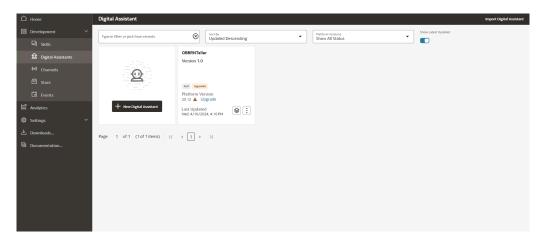
- 1. Open Oracle ODA Deployment URL.
- 2. Specify the **Username** and **Password**, and log in to ODA Homepage.

To configure the ODA instance and publish the digital assistant, you need to perform the following actions:

- Import the digital assistant zip file
- Map the digital assistant to the channel
- 1. Map the added skill and Import the digital assistant as follows:
 - a. On the ODA Homepage, click **Digital Assistants** in the menu.

The **Digital Assistants** screen is displayed.

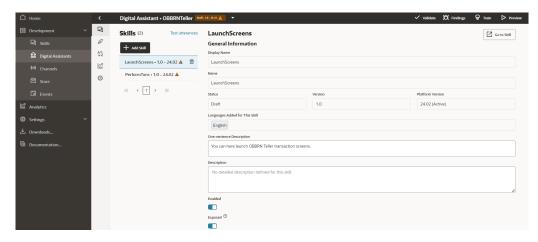
Figure 16-3 Digital Assistants





b. Import the Digital Assistant from OBBRNTELLER (1.0).zip.

Figure 16-4 Digital Assistant - Mapped Skill



c. Post importing the Digital Assistant the two skills **PerformTxns** and **LaunchScreens** will also be imported which will be visible under **Skill** tab.

Figure 16-5 PerformTxns

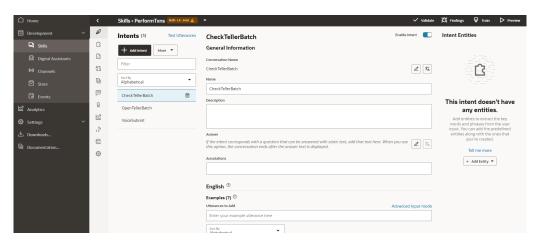
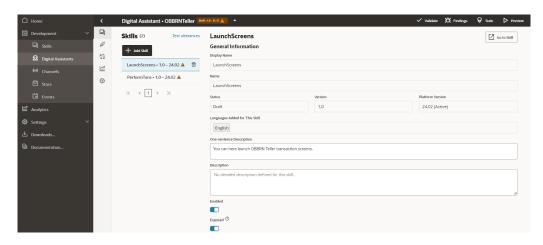


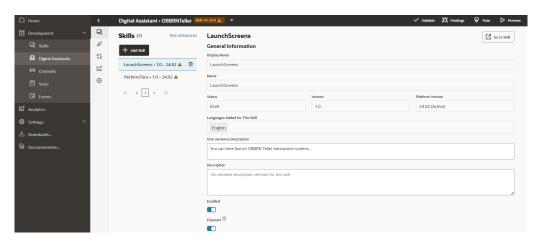
Figure 16-6 LaunchScreens





d. The imported skills will automatically be mapped with the OBBRN Teller Digital Assistant.

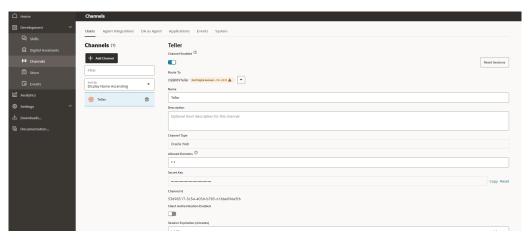
Figure 16-7 OBBRN Teller Digital Assistant



- 2. Map the digital assistant to the channel as follows:
 - **a.** On the ODA Homepage, click **Channels** in the menu.

The Channels screen is displayed.

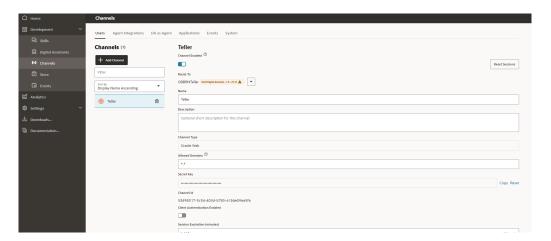
Figure 16-8 Channels



b. On the Channels screen, map the Digital Assistant with the necessary channels. Specify the Channel Type as Oracle Web and the Allowed Domains as *.



Figure 16-9 Channels - Users





Known Issues and Resolutions

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

Troubleshoot LDAP Login Issue

If you are facing login issue after upgrade, regenerate the LDAP password by using the encryption utility available in location: /OBBRN_INITIAL_SETUP/plato-security-toolkit-9.6.0.jar.

Command: java -jar target\plato-security-toolkit-9.6.0.jar

Input and Output Examples as below:

- Enter pass phrase: Test123
- Enter Salt: 0.9412345671234567
- Encrypted Password: AAAAAAAAAAAAAAAAA282FCixC1h98xgwSOD/U2u1DivwLZ1E=

Deployment Order for Common Core Services

- 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

Issue in SMS Services

After deploying sms-core-services, if an user face error as java.lang.lllegalStateException: No instances available for SMS-CORE-SERVICES, add the following -Dparam at setuseroverrides.sh file and restart all the managed servers.

-Dspring.cloud.loadbalancer.ribbon.enabled = false.

Issue in OBMA Services

After deploying the microservices, and if the user gets below error during activation, add the below -Dparam at setuseroverrides.sh file and restart the impacted managed servers.

- -Dspring.main.allow-circular-references = true.
- -Dweblogic.security.SSL.minimumProtocolVersion=TLSv1.2

Error: An error occurred during activation of changes, please see the log for details.

org.springframework.beans.factory.BeanCurrentlyInCreationException: Error creating bean with name 'customHealthIndicator': Requested bean is currently in creation: Is there an unresolvable circular reference.

