

Oracle® Banking Branch Installation Guide



14.7.1.0.0
F83475-01
May 2023



Copyright © 2021, 2023, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, and MySQL are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

| | | |
|-----|-------------------------------------------------|------|
| 1 | Setup Database | |
| 1.1 | Keys and Placeholders | 1-2 |
| 1.2 | Create User Grants | 1-10 |
| 2 | Product Installation using Installer | |
| 2.1 | Pre-requisite | 2-1 |
| 2.2 | Installer Path | 2-1 |
| 3 | Configure Oracle Banking Branch Service Domains | |
| 4 | Create Data Sources | |
| 5 | Deploy Services | |
| 6 | Setup Oracle Banking Branch Kafka | |
| 7 | Configure FOP | |
| 8 | Configure SSL | |
| 9 | Restart and Refresh | |
| 10 | Logging Area | |

| | | |
|-----------|---------------------------------------------------------------------|-------|
| 11 | Configure Oracle Banking Branch UI Domain and Cluster | |
| 11.1 | Verify Configuration Details | 11-9 |
| 11.2 | Post Domain Creation Configurations | 11-11 |
| 12 | Deploy Oracle Banking Branch User Interface | |
| 13 | Restart and Refresh | |
| 14 | Deploy Oracle Banking Branch Processes | |
| 14.1 | Oracle Banking Branch Processes | 14-3 |
| 15 | Launch Oracle Banking Branch from FLEXCUBE Universal Banking | |
| 16 | Configure Oracle Digital Assistant | |
| 16.1 | Setup API Gateway | 16-3 |
| 17 | Known Issues and Resolutions | |

Preface

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.

This topic contains the following subtopics:

- [Audience](#)
- [Related Resources](#)
- [Conventions](#)
- [Organization](#)
- [List of Topics](#)
- [Screenshot Disclaimer](#)

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.

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*

Conventions

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. |
| <i>italic</i> | 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. |

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. obremo-dsr-tds-term-deposit-inquiry-services
10. obbrn-csr-casa-details-services
11. obbrn-cmn-branchservicing-services
12. obbrn-cmn-accountlimit-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
2. cmc-component-server
3. 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

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. Cls 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

List of Topics

This guide is organized into the following topics:

Table List of Topics

| Topic | Description |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Setup Database | This topic provides instructions to set up the database. |
| Product Installation using Installer | This topic provides the information to install all the product and Oracle Banking Branch services using Installer. |
| Configure Oracle Banking Branch Service Domains | This topic provides instructions to configure the service domains of the Oracle Banking Branch. |
| Create Data Sources | This topic provides instructions to create the data sources. |
| Deploy Services | This topic provides instructions to deploy the services of the Oracle Banking Branch. |
| Setup Oracle Banking Branch Kafka | This topic provides instructions to set up Kafka for the Oracle Banking Branch. |
| Configure FOP | This topic provides instructions to configure the OWCC and OAS servers. |
| Configure SSL | This topic provides instructions to configure the SSL. |
| Restart and Refresh | This topic provides instructions to restart and refresh the managed servers. |
| Logging Area | This topic provides information about the logging area. |
| Configure Oracle Banking Branch UI Domain and Cluster | This topic provides instructions to configure the User Interface (UI) domain and cluster of the Oracle Banking Branch. |
| Deploy Oracle Banking Branch User Interface | This topic provides instructions to deploy the UI of the Oracle Banking Branch. |

Table (Cont.) List of Topics

| Topic | Description |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Restart and Refresh | This topic provides instructions to restart and refresh the managed servers. |
| Deploy Oracle Banking Branch Processes | This topic provides instructions to deploy the conductor-based processes of the Oracle Banking Branch. |
| Launch Oracle Banking Branch from FLEXCUBE Universal Banking | This topic provides instructions to launch Oracle Banking Branch from the FLEXCUBE Universal Banking. |
| Configure Oracle Digital Assistant | This topic provides instructions to configure the Oracle Digital Assistant (ODA). |
| Known Issues and Resolutions | This topic provides information about know issues and resolutions. |

Screenshot Disclaimer

Personal information used in the interface or documents are dummy and does not exist in the real world. It is only for reference purposes.

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](#).

 **Note:**

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:

1. 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 (BRANCHTLR schema) |
| obremo-srv-brntlr-async-services | Yes (BRANCHTLR 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) |

Table 1-1 (Cont.) Database Setup

| Service Name | Schema Required |
|----------------------------------------------|----------------------------------------------------------------------------------------------|
| obbrn-csr-casa-details-services | No (<i>CSRCASA</i> schema) |
| obremo-dsr-tds-term-deposit-services | Yes (New schema to be created for obremo-dsr-tds-term-deposit-services - <i>DSRDEPOSIT</i>) |
| obremo-dsr-tds-term-deposit-inquiry-services | No (obremo-dsr-tds-term-deposit-services schema) |
| obremo-lsr-loan-services | Yes (<i>LSRLOAN</i> schema) |
| obbrn-cmn-accountlimit-services | No (<i>CMNSCRV</i>) schema |

2. 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)

| Key | Placeholder |
|--------------------------------------------------------|--------------------------|
| <code>management.endpoints.web.exposure.include</code> | <i>prometheus,health</i> |

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`)

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

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 |
|---------------------------------------------|-------------|
| <code>user.disableInactiveUsers</code> | <i>N</i> |
| <code>user.closeDisabledUsers</code> | <i>N</i> |
| <code>user.disableInactiveUsers.days</code> | <i>0</i> |
| <code>user.closeDisabledUsers.days</code> | <i>0</i> |
| <code>user.sameDayLoginRequired</code> | <i>Y</i> |

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 |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>cmc-obrh-services.audit.retention.days</code> | This property is used to specify the number of days for retention policy. Example: <code>cmc-obrh-services.audit.retention.days=7</code> |
| <code>cmc-obrh-services.audit.retention.archival</code> | This property is used to specify whether purging or archiving is required. Example: <code>cmc-obrh-services.audit.retention.archival=N</code> |
| | <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;">  Note: N for purging and Y for archiving. </div> |
| <code>cmc-obrh-services.oic.oauth.scope</code> | This property is used to specify the OIC's oauth scope. |
| <code>cmc-obrh-services.oic.secretStore.url</code> | This property is used to specify the OIC's secretstore URL. |
| <code>cmc-obrh-services.oic.idcs.url</code> | This property is used to specify the OIC's idcs URL. |

Values for obbrn-cmn-accountlimit-services

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

Table 1-6 Keys and Placeholders (obbrn-cmn-accountlimit-services)

| Key | Placeholder |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| obbrn-cmn-accountlimit-services.jndi | <i>jdbc/CMNSCRV</i> |
| 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 | <ol style="list-style-type: none"> 1. default – false 2. if oflo product is installed then it can be made true if required |
| obremo-csr-cus-customer-services.oflo.enabled | <ol style="list-style-type: none"> 1. default – false 2. if oflo product is installed then it can be made true if required |

Values for plato-alerts-management services

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

Table 1-7 Keys and Placeholders (plato-alerts-management services)

| Key | Placeholder |
|------------------------------------------------------------------|---------------------------------------------|
| spring.cloud.stream.kafka.binder.configuration.security.protocol | <i>PLAINTEXT</i> (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 1-8 Keys and Placeholders (obremo-srv-brntlr-async-services)

| Key | Placeholder |
|-------------------------------------------------------|------------------------------------------------|
| spring.cloud.stream.kafka.binder.txn.zkNodes | <i>plato.eventhub.txn.zookeeper.hosts</i> |
| spring.cloud.stream.kafka.binder.txn.brokers | <i>plato.eventhub.txn.broker.hosts</i> |
| spring.cloud.stream.kafka.binder.tilltot.zkNodes | <i>plato.eventhub.tilltot.zookeeper.hosts</i> |
| spring.cloud.stream.kafka.binder.tilltotDenom.brokers | <i>plato.eventhub.tilltotDenom.broker.host</i> |
| spring.cloud.stream.kafka.binder.tilltot.brokers | <i>plato.eventhub.tilltot.broker.hosts</i> |

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

| Key | Placeholder |
|-------------------------------------------------------|----------------------------------------------------|
| spring.cloud.stream.kafka.binder.tilltotDenom.zkNodes | <i>plato.eventhub.tilltotDenom.zookeeper.hosts</i> |
| spring.cloud.stream.kafka.binder.casaBinder.brokers | <i>plato.eventhub.casaBinder.broker.hosts</i> |
| spring.cloud.stream.kafka.binder.casaBinder.zkNodes | <i>plato.eventhub.casaBinder.zookeeper.hosts</i> |

Values for obremo-srv-brntlr-async-services

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

Table 1-9 Keys and Placeholders (obremo-srv-brntlr-async-services)

| Key | Placeholder |
|------------------------------|---------------------------------------|
| plato.eventhub.kafka.brokers | <i>plato.eventhub.broker.hosts</i> |
| plato.eventhub.zk.nodes | <i>plato.eventhub.zookeeper.hosts</i> |

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 1-10 Keys and Placeholders (plato-alerts-management-services)

| Key | Placeholder |
|------------------------------|----------------------------------------------|
| plato.eventhub.kafka.brokers | <i>plato.eventhub.broker.hosts</i> |
| plato.eventhub.zk.nodes | <i>plato.eventhub.zookeeper.hosts</i> |
| server.port | <i>cmc-deprecation-service.server.port</i> |
| batchServer.protocol | <i>apigateway.protocol</i> |
| EMAIL.SMTP_HOST | <i>plato.alerts.email.smtp.host</i> |
| EMAIL.SMTP_OUT_PORT | <i>plato.alerts.email.smtp.out.port</i> |
| EMAIL.AUTH | <i>plato.alerts.email.auth</i> |
| EMAIL.SOCKETFACTORY_PORT | <i>plato.alerts.email.socketfactory.port</i> |

Values for plato-feed-services

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

Table 1-11 Keys and Placeholders (plato-feed-services)

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

Values for plato-password-policy-services

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

Table 1-12 Keys and Placeholders (plato-password-policy-services)

| Key | Placeholder |
|--------------------------------------|--------------------------------------------------|
| <code>server.port</code> | <i>plato-password-policy-service.server.port</i> |
| <code>flyway.domain.db.jndi</code> | <i>plato-password-policy-service.jndi</i> |
| <code>flyway.domain.schemas</code> | <i>plato-password-policy-service.schemas</i> |
| <code>flyway.domain.locations</code> | <i>plato-password-policy-service.locations</i> |

Values for cmc-fc-ai-ml-services

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

Table 1-13 Keys and Placeholders (cmc-fc-ai-ml-services)

| Key | Placeholder |
|---------------------------------|-------------------------------------------------|
| <code>pollingEmail</code> | <i>cmc-fc-ai-ml-services.pollingEmail</i> |
| <code>emailServerPort</code> | <i>cmc-fc-ai-ml-services.emailServerPort</i> |
| <code>emailServerHost</code> | <i>cmc-fc-ai-ml-services.emailServerHost</i> |
| <code>pollingFrequency</code> | <i>cmc-fc-ai-ml-services.pollingFrequency</i> |
| <code>pollerInitialDelay</code> | <i>cmc-fc-ai-ml-services.pollerInitialDelay</i> |
| <code>emailPassword</code> | <i>cmc-fc-ai-ml-services.emailPassword</i> |
| <code>pollingPath</code> | <i>cmc-fc-ai-ml-services.pollingPath</i> |
| <code>postingPath</code> | <i>cmc-fc-ai-ml-services.postingPath</i> |

Values for obremo-csr-cus-customer-services

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

Table 1-14 Keys and Placeholders (obremo-csr-cus-customer-services)

| Key | Placeholder |
|-------------------------------------|----------------------------------------------------------------------|
| <code>server.port</code> | <code>obremo-csr-cus-customer-services.server.port</code> |
| <code>flyway.domain.schemas</code> | <code>obremo-csr-cus-customer-services.schemas</code> |
| <code>flyway.domain.db.jndi</code> | <code>obremo-csr-cus-customer-services.jndi</code> |
| <code>hostValidation.enabled</code> | <code>obremo-csr-cus-customer-services.hostValidation.enabled</code> |

Values for obbrn-cmn-process-driver-services

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

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

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

Values for obbrn-cmn-businessproductdetails-services

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

Table 1-16 Keys and Placeholders (obbrn-cmn-businessproductdetails-services)

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

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

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

Table 1-17 Keys and Placeholders (obremo-dsr-tds-term-deposit-services)

| Key | Placeholder |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| server.port | <i>obremo-dsr-tds-term-deposit-services.server.port</i> |
| flyway.domain.schemas | <i>obremo-dsr-tds-term-deposit-services.schemas</i> |
| flyway.domain.db.jndi | <i>obremo-dsr-tds-term-deposit-services.jndi</i> |
| obbrn.dsr.deposit.productProcessor | <i>dsr.productProcessor</i> |
| flyway.sms.placeholders.obbrn.default.source_system.deposit | <i>obbrn-cmn-branchservicing-services.default.source_system.deposit (Currently supported values OBRDEP and FCUBS)</i> |
| coherence.enabled | <i>coherence.enabled</i> |
| loadCacheOnStartUp | <i>loadCacheOnStartUp</i> |

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

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

Table 1-18 Keys and Placeholders (obremo-dsr-tds-term-deposit-inquiry-services)

| Key | Placeholder |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| server.port | <i>obremo-dsr-tds-term-deposit-inquiry-services.server.port</i> |
| flyway.domain.schemas | <i>obremo-dsr-tds-term-deposit-services.schemas</i> |
| flyway.domain.db.jndi | <i>obremo-dsr-tds-term-deposit-services.jndi</i> |
| obbrn.dsr.deposit.productProcessor | <i>dsr.productProcessor</i> |
| flyway.sms.placeholders.obbrn.default.source_system.deposit | <i>obbrn-cmn-branchservicing-services.default.source_system.deposit (Currently supported values OBRDEP and FCUBS)</i> |
| coherence.enabled | <i>coherence.enabled</i> |
| loadCacheOnStartUp | <i>loadCacheOnStartUp</i> |

Values for obbrn-cmn-branchservicing-services

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

Table 1-19 Keys and Placeholders (obbrn-cmn-branchservicing-services)

| Key | Placeholder |
|-------------|-------------------------------------------------------|
| server.port | <i>obbrn-cmn-branchservicing-services.server.port</i> |

Table 1-19 (Cont.) Keys and Placeholders (obbrn-cmn-branchservicing-services)

| Key | Placeholder |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| flyway.domain.schemas | <i>obbrn-cmn-branchservicing-services.schemas</i> |
| flyway.domain.db.jndi | <i>obbrn-cmn-branchservicing-services.jndi</i> |
| plato.service.scheduler.userid | <i>PLATO_DEBUG_USER_ID</i> |
| obbrn.default.source_system.deposit | <i>obbrn-cmn-branchservicing-services.default.source_system.deposit (values supported FCUBS and OBRDEP)</i> |
| obbrn.default.source_system.casa | <i>obbrn-cmn-branchservicing-services.default.source_system.casa (values supported FCUBS and OBRACC)</i> |
| obbrn.default.source_system.casaroute | <i>obbrn-cmn-branchservicing-services.default.source_system.casaroute (values supported FCUBS and OBRACC)</i> |
| coherence.enabled | <i>coherence.enabled</i> |
| loadCacheOnStartUp | <i>loadCacheOnStartUp</i> |

Values for obbrn-cmn-accountlimit-services

The key and placeholder details for `obbrn-cmn-accountlimit-services` are as follows:

Table 1-20 Keys and Placeholders (obbrn-cmn-accountlimit-services)

| Key | Placeholder |
|-----------------------|-----------------------------------------------------|
| server.port | <i>obbrn-cmn-accountlimit-services.server.port</i> |
| flyway.domain.schemas | <i>obbrn-cmn-accountlimit-services.schemas</i> |
| flyway.domain.db.jndi | <i>obbrn-cmn-accountlimit-services.jndi</i> |
| oflo.enabled | <i>obbrn-cmn-accountlimit-services.oflo.enabled</i> |

Values for obbrn-csr-casa-details-services

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

Table 1-21 Keys and Placeholders (obbrn-csr-casa-details-services)

| Key | Placeholder |
|-----------------------|----------------------------------------------------|
| server.port | <i>obbrn-csr-casa-details-services.server.port</i> |
| flyway.domain.schemas | <i>obbrn-csr-casa-details-services.schemas</i> |
| flyway.domain.db.jndi | <i>obbrn-csr-casa-details-services.jndi</i> |

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 1-22 Grants Provided to the Users

| Schema | Grants |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oracle Banking Branch schema (common grants) | <ul style="list-style-type: none"> grant create session to PLATO; grant create table to PLATO; grant create sequence to PLATO; |
| Common Core Schema (common core grants) | <ul style="list-style-type: none"> grant create procedure to CMNCORE; grant create synonym to CMNCORE; grant create sequence to CMNCORE; grant create function to CMNCORE; |
| SMS Schema (SMS grants) | <ul style="list-style-type: none"> 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 BRANCHTLR schema as follows:

- grant create synonym to BRANCHTLR;
- grant create procedure to BRANCHTLR;
- grant create sequence to BRANCHTLR;
- grant create function to BRANCHTLR;
- grant create job to BRANCHTLR;
- grant create view to BRANCHTLR;
- grant create mining model to BRANCHTLR;
- grant create any mining model to BRANCHTLR;
- grant alter any mining model to BRANCHTLR;
- grant drop any mining model to BRANCHTLR;
- grant select any mining model to BRANCHTLR;
- grant comment any mining model to BRANCHTLR;
- grant execute on DBMS_DATA_MINING to BRANCHTLR;
- grant create view to BRANCHTLR;

- `grant create table to BRANCHTLR;`
- `grant drop table to BRANCHTLR;`

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

| Application | Archive Name | OSDC Path |
|-------------|--------------|------------|
| OBMA | obma.zip | /INSTALLER |
| OBBRN | obbrn.zip | |



Note:

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

3

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:

1. The machine should have Java JDK has installed.
2. 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.

 **Note:**

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 |

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

| Service Name | Domain Name |
|----------------------------------------------|------------------------------|
| 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 |

4

Create Data Sources

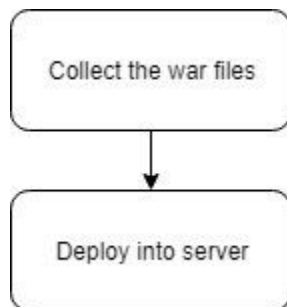
You need to create the data sources in the necessary domains for the deployment of the Oracle Banking Branch.

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.

 **Note:**

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 | BRANCHTLR | jdbc/SRVBRNTLR | Servicing Managed Server |
| obremo-srv-brntlr-async-services | BRANCHTLR | jdbc/SRVBRNTLR | Servicing Managed Server |

Table 4-1 (Cont.) Data Sources

| 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-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 |
| obbrn-cmn-accountlimit-services | CMNSCRV | jdbc/CMNSCRV | Servicing Managed Server |

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

 **Note:**

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 | 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 |

Table 4-2 (Cont.) Additional Data Sources

| Data Source Name | Data Source JNDI | Targets |
|-------------------------|-------------------------|--------------------------|
| PLATO-O | jdbc/PLATO-O | Servicing Managed Server |
| REPORTSERVICE | jdbc/ REPORTSERVICE | Servicing Managed Server |

5

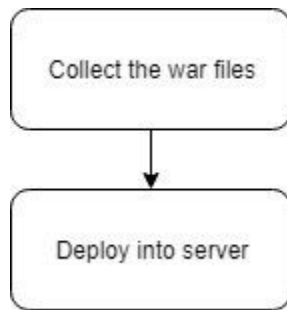
Deploy Services

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**.



Note:

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 Service | obbrn-srv-biz-businessprocess-services-{version}.war | {unzip the file} OBBRN\obbrn-srv-biz-businessprocess-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 |

Table 5-1 (Cont.) Deployments List

| Application | Archive name | OSDC path | Targets |
|--------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
| Branch Teller Service | obremo-srv-branch-teller-services-{version}.war | { unzip the file }obremo-srv-branch-teller-services | Servicing Managed Server |
| Branch Async Service | obremo-srv-brntlr-async-services-{version}.war | { unzip the file } OBBRN\obremo-srv-brntlr-async-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 |
| CASA Customer Service | obremo-csr-customer-services-{version}.war | { unzip the file } OBBRN\CASA\obremo-csr-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 |

6

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:

1. To configure email approval and customer notification, create the below topic:
AlertMessage
2. To integrate Oracle FLEXCUBE Onboarding with Oracle Banking Branch, create the below topic:
InitialFundingAck
3. 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

| APPLICATION | PROFILE | LABEL | KEY | VALUE |
|----------------------------------|---------|-------|------------------------------|-------------------------------|
| obremo-srv-brntrl-async-services | jdbc | jdbc | plato.eventhub.kafka.brokers | brokerserver:brokerport |
| obremo-srv-brntrl-async-services | jdbc | jdbc | plato.eventhub.zk.nodes | zookeeperserver:zookeeperport |
| obremo-srv-brntrl-async-services | jdbc | jdbc | plato.eventhub.kafka.brokers | brokerserver:brokerport |
| obremo-srv-brntrl-async-services | jdbc | jdbc | plato.eventhub.zk.nodes | zookeeperserver:zookeeperport |
| obremo-srv-brntrl-async-services | jdbc | jdbc | emailPassword | base64password |
| obremo-srv-brntrl-async-services | jdbc | jdbc | pollingFrequency | 50 |
| obremo-srv-brntrl-async-services | jdbc | jdbc | emailServerHost | smtp_host@server.com |
| obremo-srv-brntrl-async-services | jdbc | jdbc | emailServerPort | smtp_port |
| obremo-srv-brntrl-async-services | jdbc | jdbc | pollingEmail | pollingEmailId |
| 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 |

 **Note:**

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.

1. 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.
2. 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.
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.

8

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. Enable SSL in the deployed managed server of `plato-api-gateway` service and deployed managed server of app shell.
2. 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.



Note:

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

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 |

11

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:

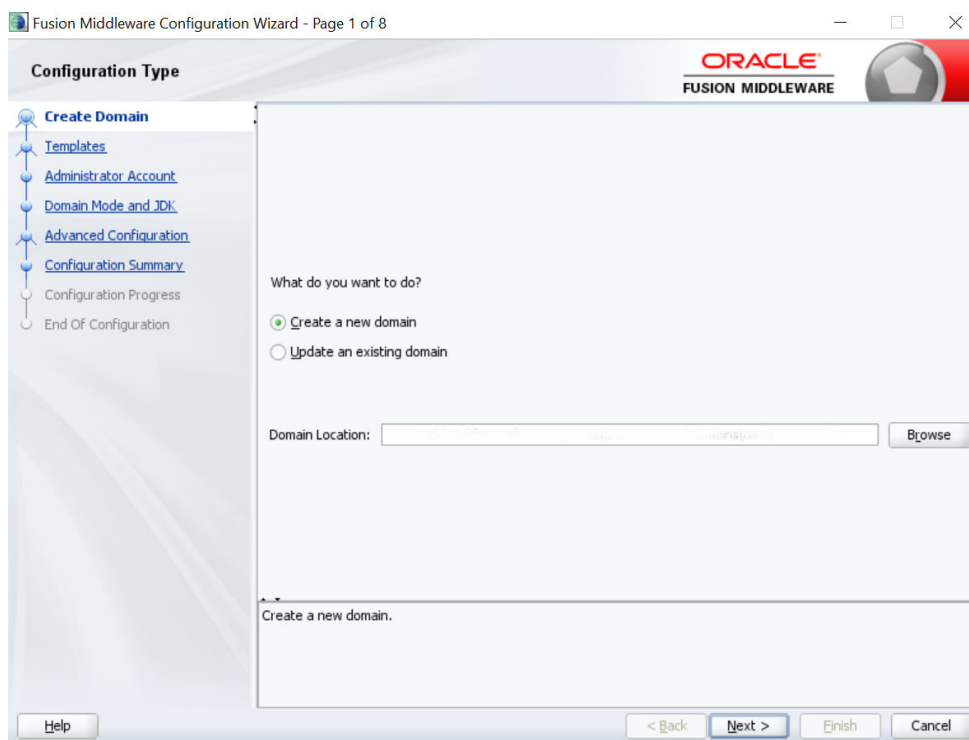
1. The machine should have Java JDK has installed.
2. The machine should have **Fusion Middleware Configuration Wizard** installed.

 **Note:**

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:

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


Figure 11-1 Create Domain

2. On the **Configuration Type** segment, select **Create a new domain**, and specify the file path of the domain in the **Domain Location** field.
3. Click **Next**.
The **Administration Server** segment is displayed.

Figure 11-2 Administration Server Details

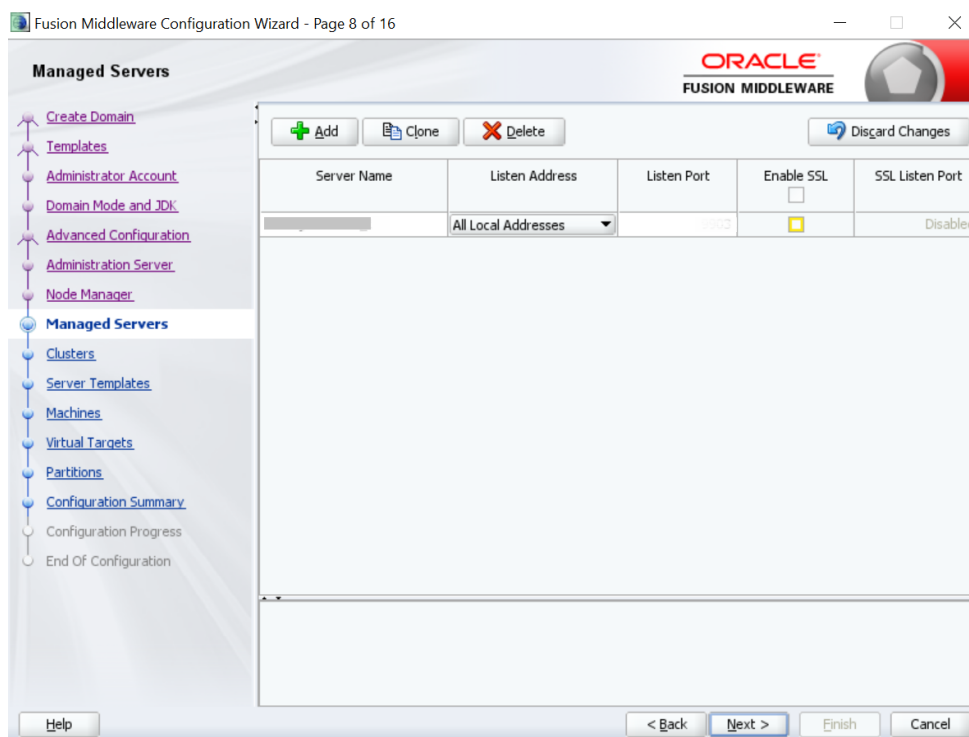
- Specify the fields in the **Administration Server** segment. For more information on fields, refer to the field description table.

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. <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;"> <p> Note: This field is enabled only if Enable SSL is selected.</p> </div> |

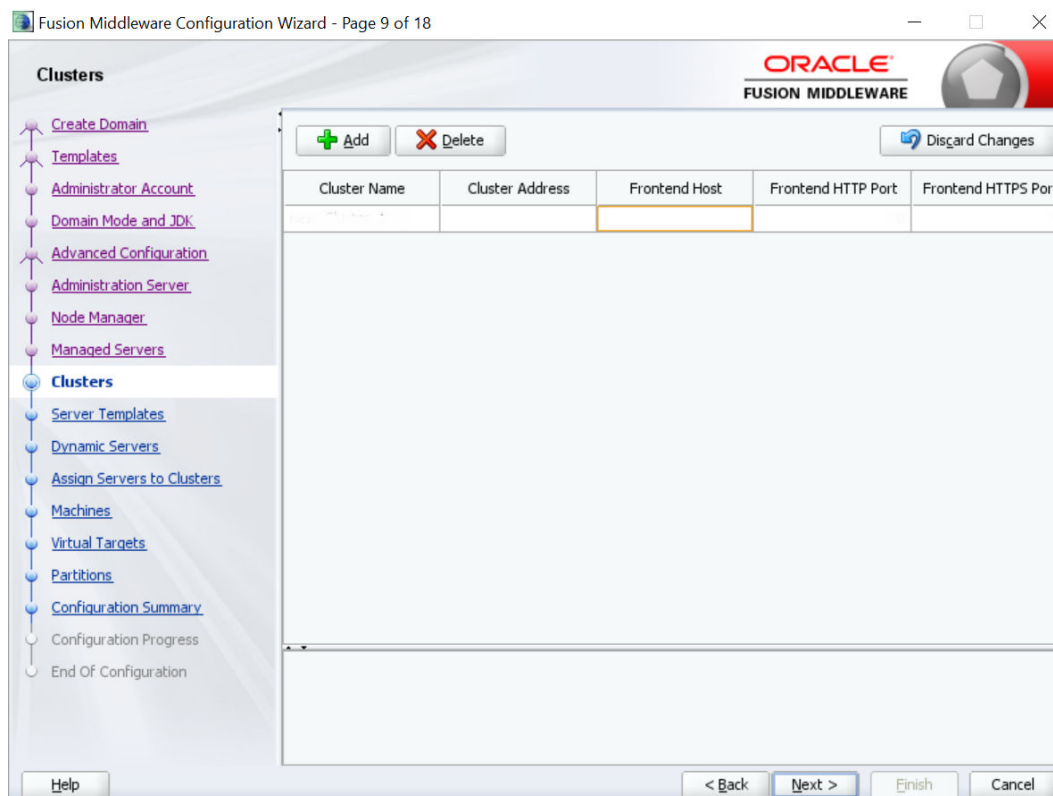
- Click **Next**.
The **Managed Servers** segment is displayed.

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

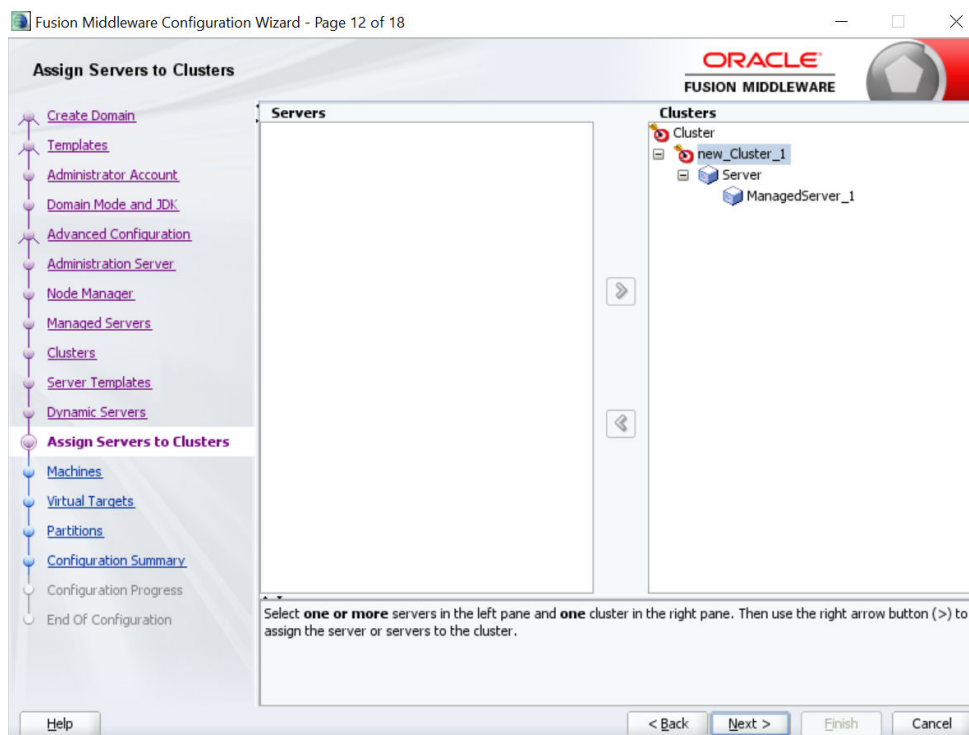


8. Add an entry for the cluster in the **Clusters** segment. For more information on fields, refer to the field description table.

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. |

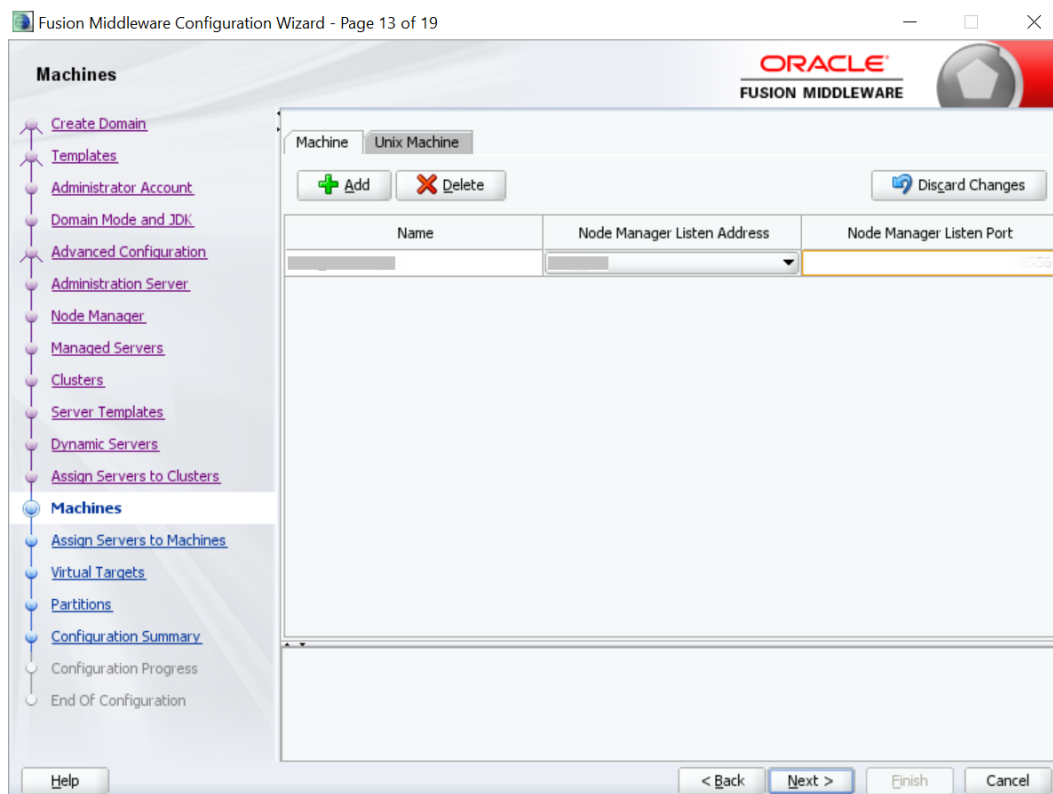
9. Click **Next**.
The **Assign Servers to Clusters** segment is displayed.

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

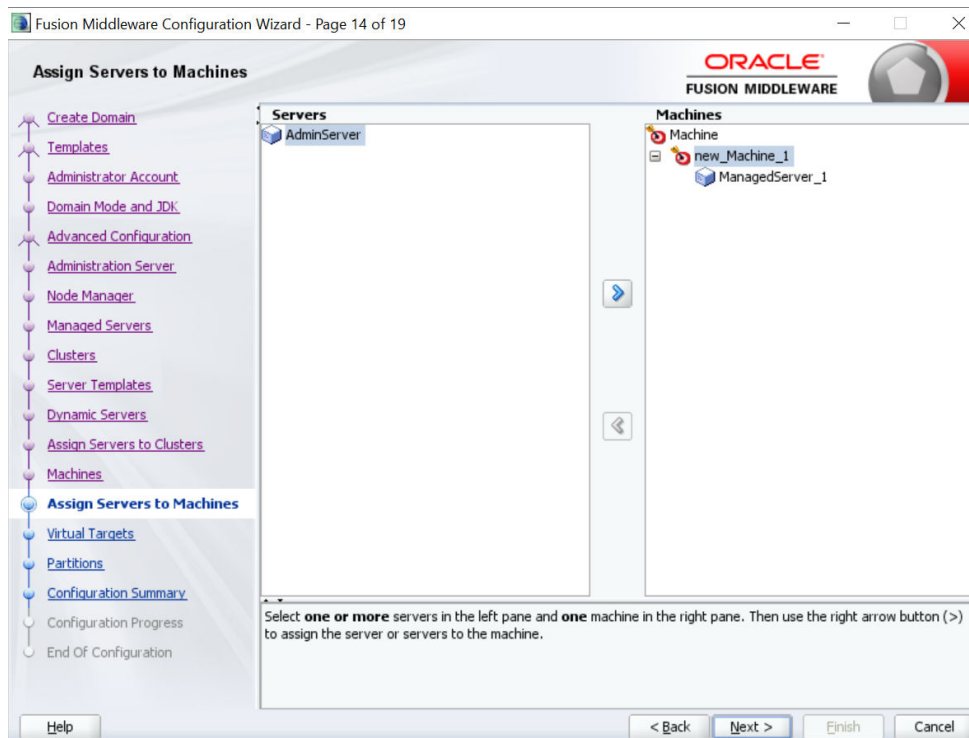
12. Add an entry for the machine in the **Machines** segment. For more information on the fields, refer to the field description table.

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**.

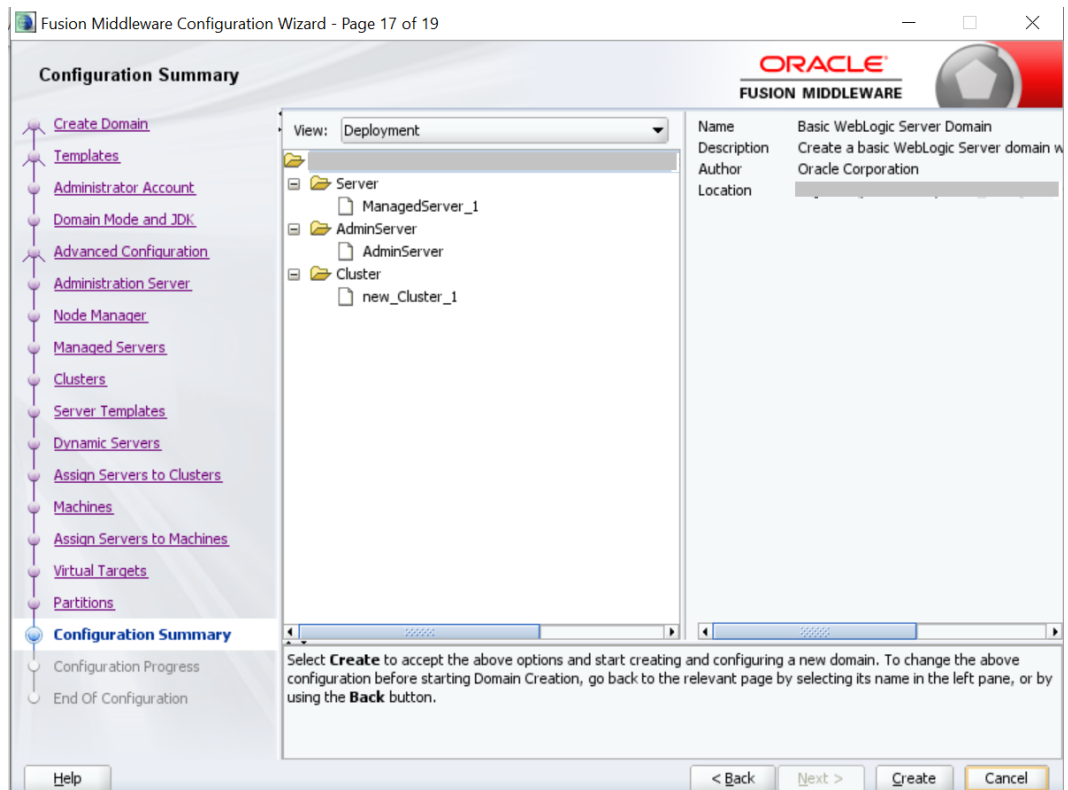
The **Assign Servers to Machines** segment is displayed.

Figure 11-7 Assign Servers to Machines

14. Assign the required machine in the **Assign Servers to Machines** segment.

15. Click **Next**.

The **Configuration Summary** segment is displayed.

Figure 11-8 Configuration Summary

16. Click **Create** to configure a new domain.
17. Verify the configuration details. For information on how to verify, refer to [Verify Configuration Details](#).
 - [Verify Configuration Details](#)
You can verify the configuration details of the Oracle Banking Branch in the Weblogic Server.
 - [Post Domain Creation Configurations](#)
You need to complete the configurations after the creation of the domain and cluster, and verification of the configuration details in the WebLogic Server.

11.1 Verify Configuration Details

You can verify the configuration details of the Oracle Banking Branch in the Weblogic Server.

Make sure that the domain and cluster are created for the Oracle Banking Branch.

To verify the configuration details:

1. On the Oracle WebLogic Server Homepage, in the **Domain Structure** panel, click **Environment**. Under **Environment**, click **Servers**.

The **Summary of Servers** screen is displayed.

Figure 11-9 Verification - Summary of Servers

Summary of Servers

Configuration Control

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Servers (Filtered - More Columns Exist)

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

| <input type="checkbox"/> Name ↕ | Type | Cluster | Machine | State | Health | Listen Port |
|---------------------------------------------|------------|---------------|---------------|----------|---------------|-------------|
| <input type="checkbox"/> AdminServer(admin) | Configured | | | RUNNING | OK | 8080 |
| <input type="checkbox"/> ManagedServer_1 | Configured | new_Cluster_1 | new_Machine_1 | SHUTDOWN | Not reachable | 8080 |

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

2. On the **Summary of Servers** screen, in the **Configuration** tab, verify the configuration details of the server.
3. On the Homepage, in the **Domain Structure** panel, click **Environment**. Under **Environment**, click **Clusters**.

The **Summary of Clusters** screen is displayed.

Figure 11-10 Verification - Summary of Clusters

Summary of Clusters

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

Customize this table

Clusters (Filtered - More Columns Exist)

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

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

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

4. On the **Summary of Clusters** screen, verify the configuration details of the cluster.
5. On the Homepage, in the **Domain Structure** panel, click **Environment**. Under **Environment**, click **Machines**.

The **Summary of Machines** screen is displayed.

Figure 11-11 Verification - Summary of Machines

Summary of Machines

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

Customize this table

Machines

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

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

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

6. On the **Summary of Machines** screen, verify the configuration details of the machine.
7. Perform the configurations after the domain creation and verification. For information on configurations, refer to the [Post Domain Creation Configurations](#).

11.2 Post Domain Creation Configurations

You need to complete the configurations after the creation of the domain and cluster, and verification of the configuration details in the WebLogic Server.

The prerequisites are as follows:

1. Make sure that the domain and cluster are created for the Oracle Banking Branch.
2. Start the admin server, node manager, and managed servers. For information on how to start, refer to the documentation library of the Oracle Fusion Middleware.

To perform the configurations:

1. Navigate to folder path `/user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security` in the machine.
2. Create `boot.properties` file under `/user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security`.
3. Edit `boot.properties` and specify `username` and `password`.
4. Navigate to `/user_projects/domain/sms_domain/bin`.
5. Run `startWeblogic.cmd`.

 **Note:**

If the operating system is Linux, specify the file extension as `.sh`.

6. Navigate to `/user_projects/domains/sms_domain/bin`.
7. Run `setNMJavaHome.cmd`.

 **Note:**

If the operating system is Linux, specify the file extension as `.sh`.

8. Navigate to `/user_projects/domains/sms_domain/nodemanager`.
9. Edit `nodemanager.properties` as required.

 **Note:**

If the SSL and keystore are not provided, update `securelistner = false`.

10. Perform the following steps in the Oracle WebLogic Server.
 - a. On the Homepage, in the **Domain Structure** panel, click **Machines**.
 - b. Click on the machine name.

- c. Click **Node Manager**, and select **Type** as **Plain**.
 - d. Click **Save** to save the configured details.
11. Navigate to `/user_projects/domains/sms_domain/bin`.
 12. Run `startNodeManager.cmd`.

 **Note:**

If the operating system is Linux, specify the file extension as `.sh`.

13. Start all the managed servers.
14. In the Oracle WebLogic Server, verify the servers and clusters. For information on how to verify, refer to [Verify Configuration Details](#).

12

Deploy Oracle Banking Branch User Interface

You need to deploy the archives as an application on the Oracle WebLogic Server.

The steps to deploy archives as an application on the Oracle WebLogic Server is the same for all the server names and domain names except for managed server and domain.

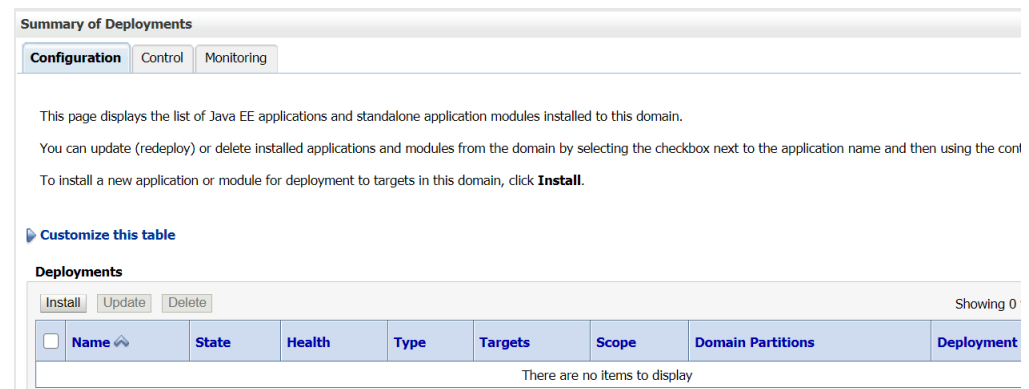
 **Note:**

The server names and domain names need not be the same as mentioned in this procedure.

To deploy the archives as an application:

1. Extract the zip file under the `UI` folder in the machine.
2. Perform the following steps in the Oracle WebLogic Server:
 - a. On the Homepage, in the **Domain Structure** panel, click **Deployments**.
The **Summary of Deployments** screen is displayed.

Figure 12-1 Summary of Deployments




- b. On the **Summary of Deployments** screen, click **Install**.
The **Install Application Assistant** screen is displayed.

Figure 12-2 Install Application Assistant

- c. On the **Install Application Assistant** screen, specify the fields. For more information on fields, refer to the field description table.

Table 12-1 Install Application Assistant - Field Description

| Field | Description |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Path | Specify the path to install and prepare for deployment. <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;"> <p> Note: You can also select the <code>app_shell</code> directory.</p> </div> |
| Recently Used Paths | Displays the recently used paths for the installation. |
| Current Location | Select the associated war file. |

- d. Click **Next**.
The **Choose Installation type and scope** segment is displayed.

Figure 12-3 Choose Installation Type and Scope

- e. Select the **Install this deployment as an application** option, and click **Next**.
 - f. Specify the name of the deployment as `app_shell`, and click **Next**.
- The **Review your choices and click Finish** segment is displayed.

Figure 12-4 Review Your Choices

Install Application Assistant

Back Next Finish Cancel

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.

Additional Configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

Yes, take me to the deployment's configuration screen.

No, I will review the configuration later.

Summary

Deployment: D:\New_folder\obremo-app-shell-snapshot.war

Name: obremo-app-shell-snapshot

Staging Mode: Use the defaults defined by the chosen targets

Plan Staging Mode: Use the same accessibility as the application

Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Scope: Global

Target Summary

| Components | Targets |
|---------------------------|-------------|
| obremo-app-shell-snapshot | AdminServer |

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

The deployment is completed for Oracle Banking Branch UI, and the **Summary of Deployments** screen is displayed.

Figure 12-5 Verification 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 start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

[Customize this table](#)

Deployments

Start Stop

Showing 1 to 1 of 1 Previous Next

| State | Health | Type | Targets | Scope | Domain Partitions |
|--------|--------|-----------------|-------------|--------|-------------------|
| Active | OK | Web Application | AdminServer | Global | |

Start Stop

Showing 1 to 1 of 1 Previous Next

- h. On the **Summary of Deployments** screen, click on the **Control** tab.
- i. Click **Start**.
- j. Select **Servicing all requests**, and click **Yes**.
- k. Make sure that the state is **Active**. If the state is **Active**, open the URL in the below format.

`http://HostName:PortNo/app-shell/`

 **Note:**

To remove the options call from UI to service, the users need to deploy *appshell* and other UI components in the same managed server, where `plato-api-gateway` was deployed. This will reduce the unnecessary network calls to the backend. This step is optional.

13

Restart and Refresh

You need to restart all the managed servers after the completion of deployments.

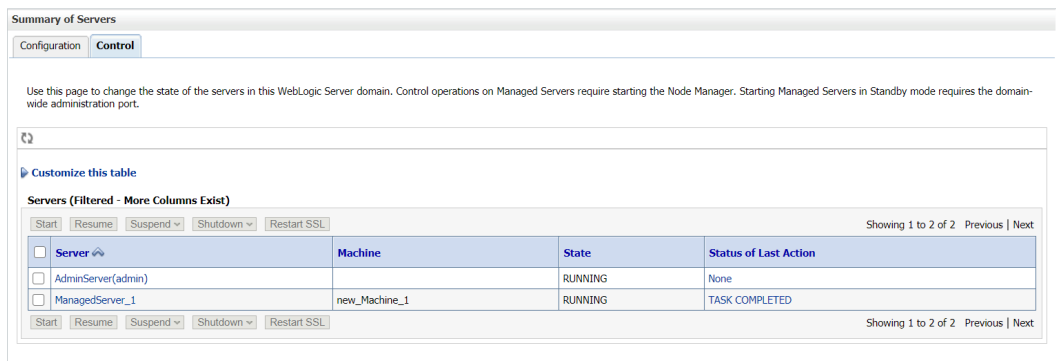
Make sure that the deployments are completed for the installation of the Oracle Banking Branch.

For each application, call path `/refresh` to refresh the configuration properties. To restart and refresh the managed servers:

1. On the Oracle WebLogic Server Homepage, in the **Domain Structure** panel, click **Environment**. Under **Environment**, click **Servers**.

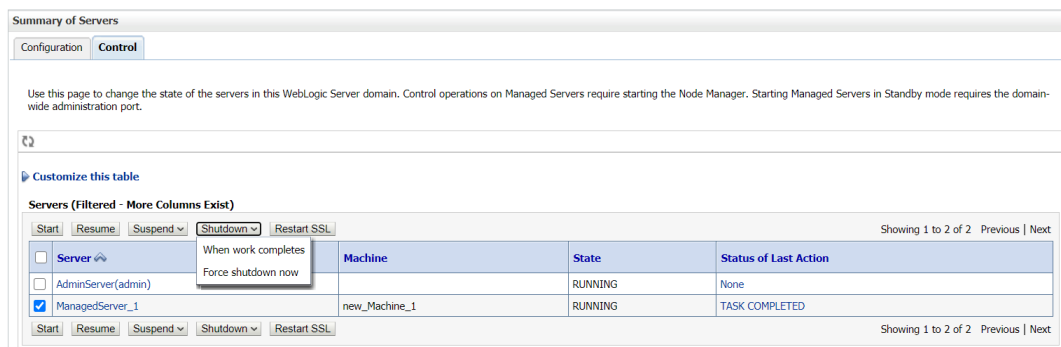
The **Summary of Servers** screen is displayed.

Figure 13-1 Restart - Summary of Servers



2. On the **Summary of Servers** screen, click the **Control** tab and select servers to shut down.

Figure 13-2 Selecting Servers to Shutdown



3. Click **Yes** to confirm the shutdown.

Figure 13-3 Status of Shutdown

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

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

Showing 1 to 2 of 2 Previous | Next

- Once the shutdown is completed, navigate to the **Control** tab, and select the necessary servers.

Figure 13-4 Selecting Servers to Start

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

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

Showing 1 to 2 of 2 Previous | Next

- Click **Start**, and then click **Yes** to confirm.

Figure 13-5 Status of Start

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

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

Showing 1 to 2 of 2 Previous | Next

- When all requested servers are running, click **Deployments** in the **Domain Structure** panel.

The **Summary of Deployments** screen is displayed.

Figure 13-6 Restart - 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](#)

Deployments

Install Update Delete Showing 1 to 1 of 1 Previous | Next

| <input type="checkbox"/> | 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

7. Verify that the deployments are in the **Active** state.

14

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.

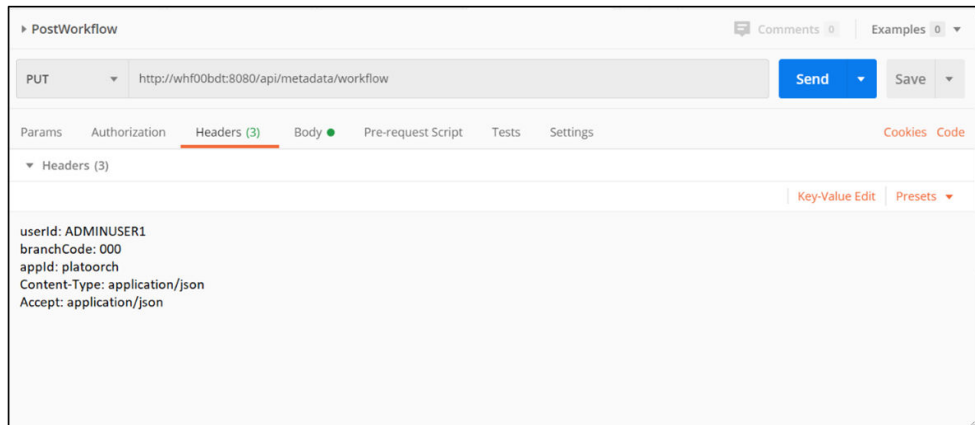
Table 14-1 Updating the Process

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

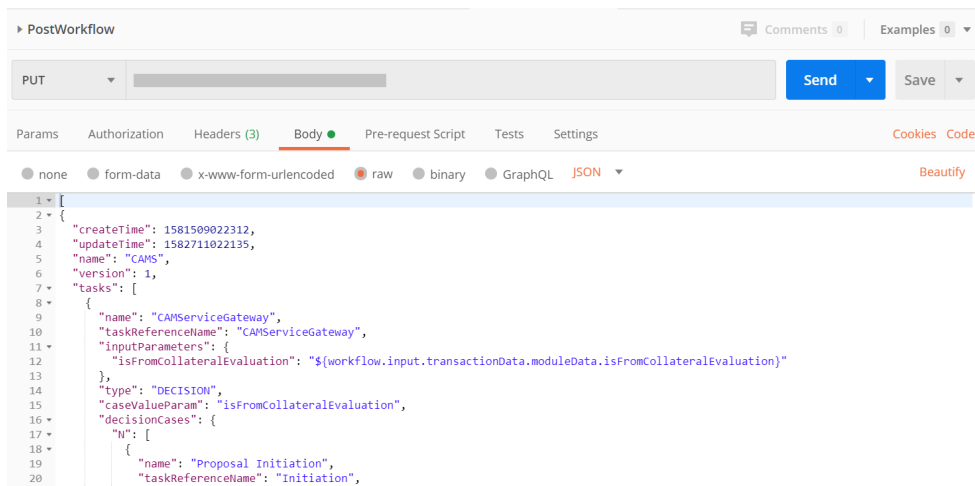
For the list of the conductor-based processes to be deployed, refer to [Oracle Banking Branch Processes](#). The server names, domain names need not be the same as this document provides. The steps to deploy a process remains the same for all the workflow files.

To deploy the conductor-based processes:

1. Launch Postman.
2. 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

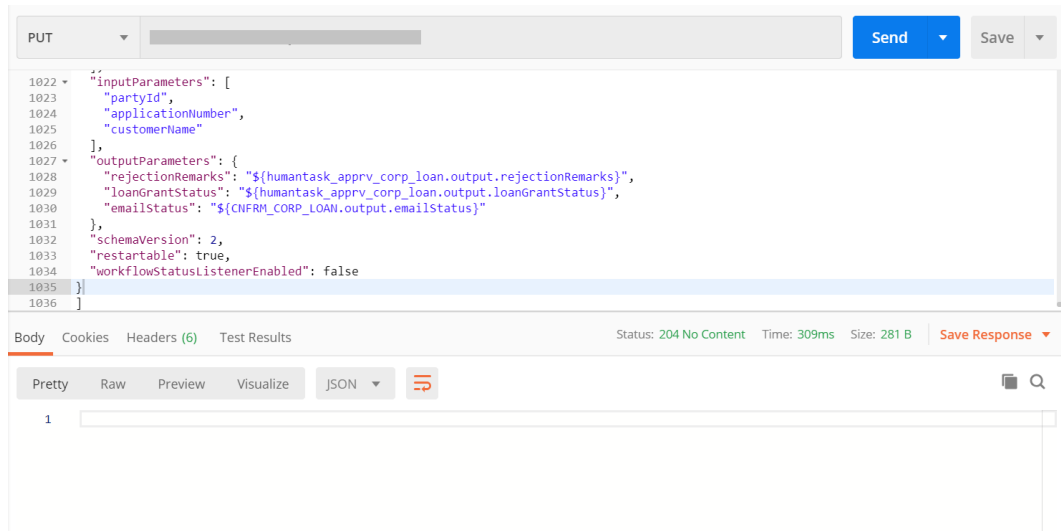
4. Select the **Body** tab, and paste the body of the message with the content from the process file.

Figure 14-2 Post Work Flow - Body

5. 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

| 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 |

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

| Serial Number | Process Name | Dependent process |
|----------------------|-----------------------------|--------------------------|
| 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 |
| 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 |

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

| Serial Number | Process Name | Dependent process |
|---------------|------------------------------------|-------------------|
| 51 | RD Amount Block | None |
| 52 | RD Payment | None |
| 53 | TD Payout Modification | None |
| 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.

15

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:

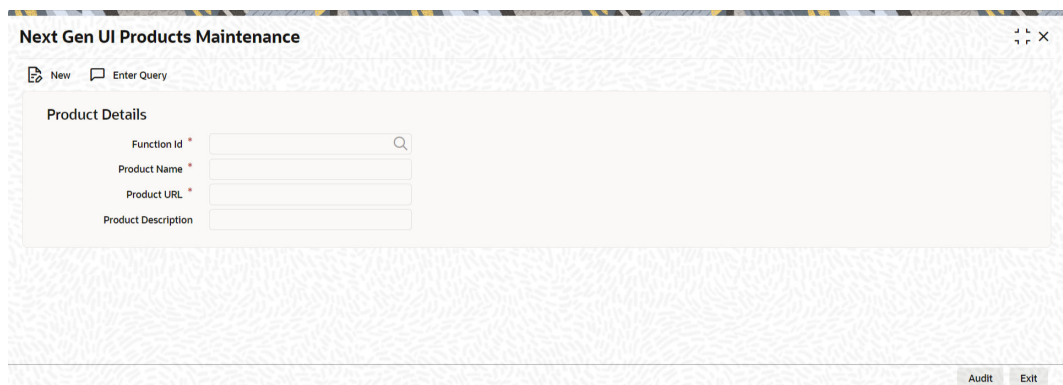
1. On the Homepage, specify **CSDNGUIM** in the text box, and click the next arrow.

Note:

Ensure that the user has roles for the screen.

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

Figure 15-1 Next Gen UI Products Maintenance



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

Note:

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.

 **Note:**

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

The **Plato 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:

 **Note:**

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.

16

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:

1. 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

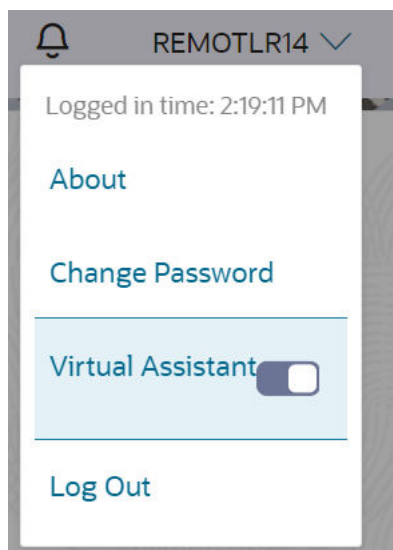
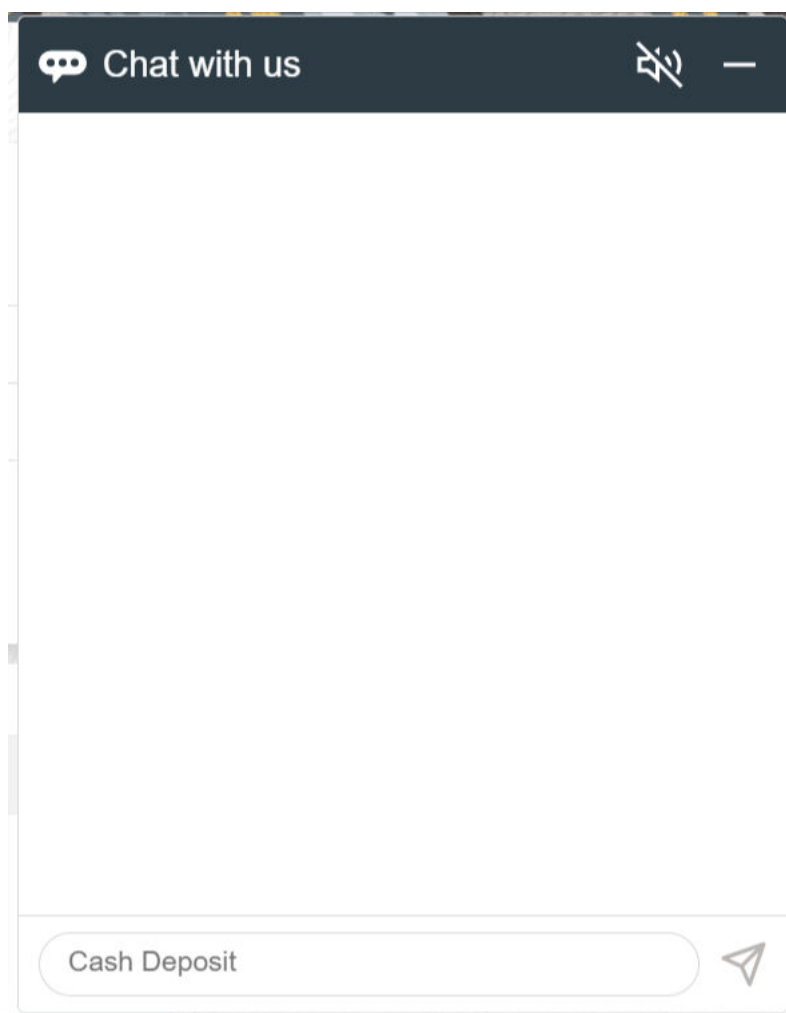


Figure 16-2 Chatbot




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 API gateway and publish the skills. For information on API gateway setup, refer to [Setup API Gateway](#).
 - [Setup API Gateway](#)
You need to configure the API Gateway and publish the skills as a part of the ODA configurations.

16.1 Setup API Gateway

You need to configure the API Gateway and publish the skills as a part of the ODA configurations.

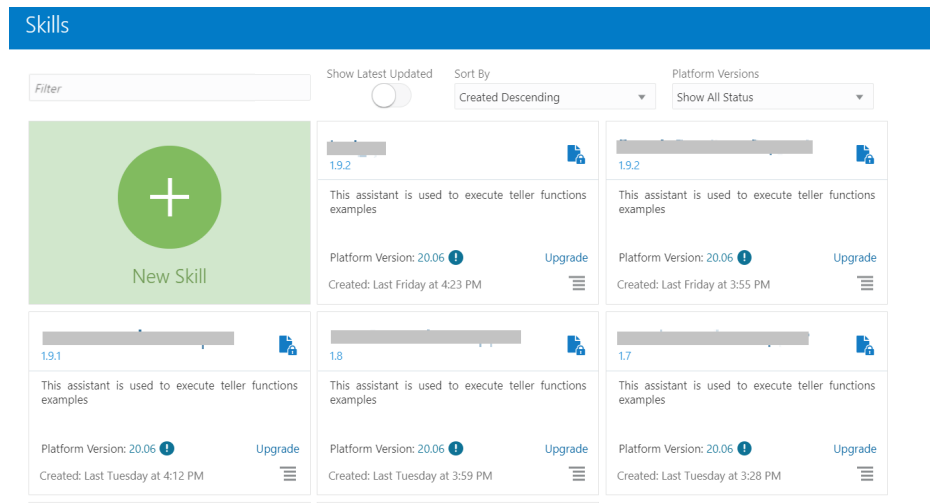
Log in to ODA Homepage as follows:

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

To configure the API Gateway and publish the skill, you need to perform the following actions:

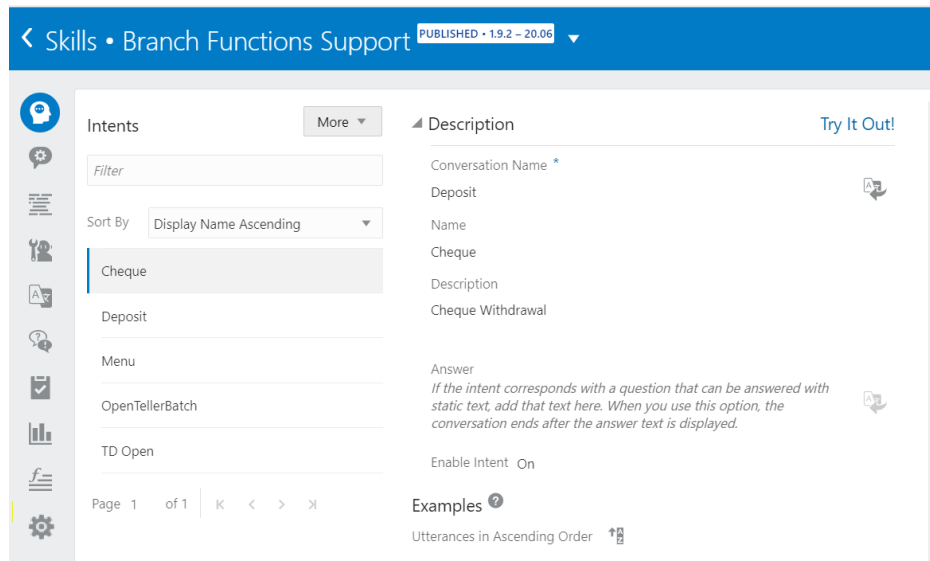
- Configure API gateway
 - Map the skill to the digital assistant
 - Map the digital assistant to the channel
1. Add the API gateway configuration parameters as follows:
 - a. On the ODA Homepage, click **Skills** in the menu.
The **Skills** screen is displayed.

Figure 16-3 Skills



- b. On the **Skills** screen, import the desired skill, which you need to configure from folder `OBBRN_ODA/Skill` file.

Figure 16-4 Select Skill



- c. Click the settings icon, and then select the **Configuration** tab.

Figure 16-5 Skills - Configuration

Skills • Branch Functions Support PUBLISHED • 1.9.2 – 20.06

General Configuration Digital Assistant Events Q&A Routing Config

System Parameters

| | | |
|----------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Confidence Threshold | 0.7 | The minimum confidence score required to match a skill's intent with user input. If there is no ma 'unresolvedIntent';(Minimum value 0, maximum value 1) |
| Confidence Win Margin | 0.1 | Only the top intent that exceeds the confidence threshold is picked if it is the highest ranking into threshold. If other intents that exceed the confidence threshold have scores that are within that o win margin, these intents are also presented to the user. (Minimum value 0, maximum value 1) |
| Unexpected Error Prompt | Oops I'm encountering a spot of trouble. Please try again later... | The message when there is an unexpected error |
| Max States Exceeded Error Prompt | Your session appears to be in an infinite loop. | The message when the Bot appears to be an infinite loop |
| Expired Session Error Prompt | Your session has expired. Please start again. | The message when the session has expired |
| OAuth Cancel Prompt | Authentication canceled. | The message when OAuth authorization is canceled |
| OAuth Success Prompt | Authentication successful! You can return to the conversation. | The message when OAuth authorization succeeds |

- d. Add the API gateway configuration parameters as shown in the figure below.

Figure 16-6 Custom Parameters

* Expired Session Error Prompt Your session has expired. Please start again.
The message when the session has expired

* OAuth Cancel Prompt Authentication canceled.
The message when OAuth authorization is canceled

* OAuth Success Prompt Authentication successful! You can return to the conversation.
The message when OAuth authorization succeeds

Custom Parameters

+ New Parameter Filter parameters

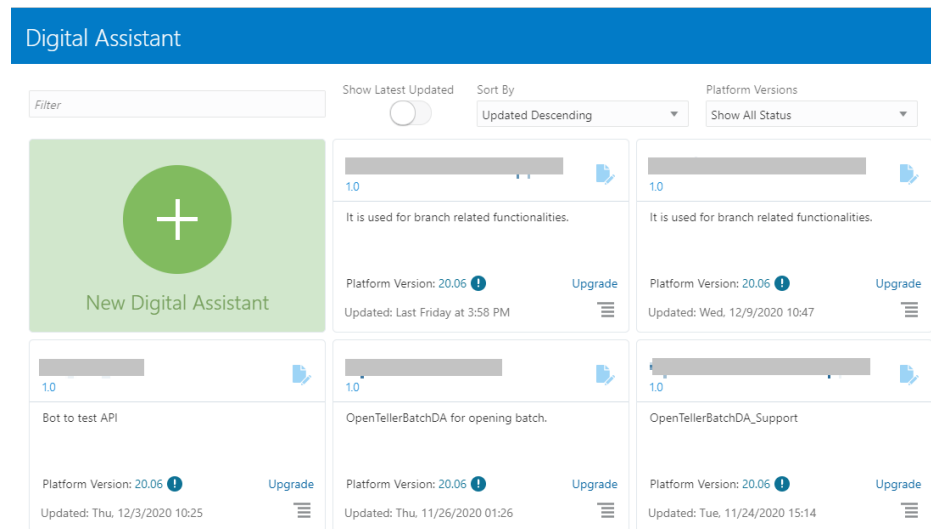
Edit Delete

| Name | Display Name | Type | Value | Description |
|---------------------|---------------------|--------|-------|-------------------------------------|
| apiGatewayHostName | apiGatewayHostName | String | | API-Gateway host name. |
| apiGatewayPort | apiGatewayPort | String | | API-Gateway port number. |
| oAuthClientId | oAuthClientId | String | | OAuth clientId for generating to... |
| oAuthClientPassword | oAuthClientPassword | String | | OAuth clientPassword for gener... |

Page 1 of 1 (1-4 of 4 items) < 1 >

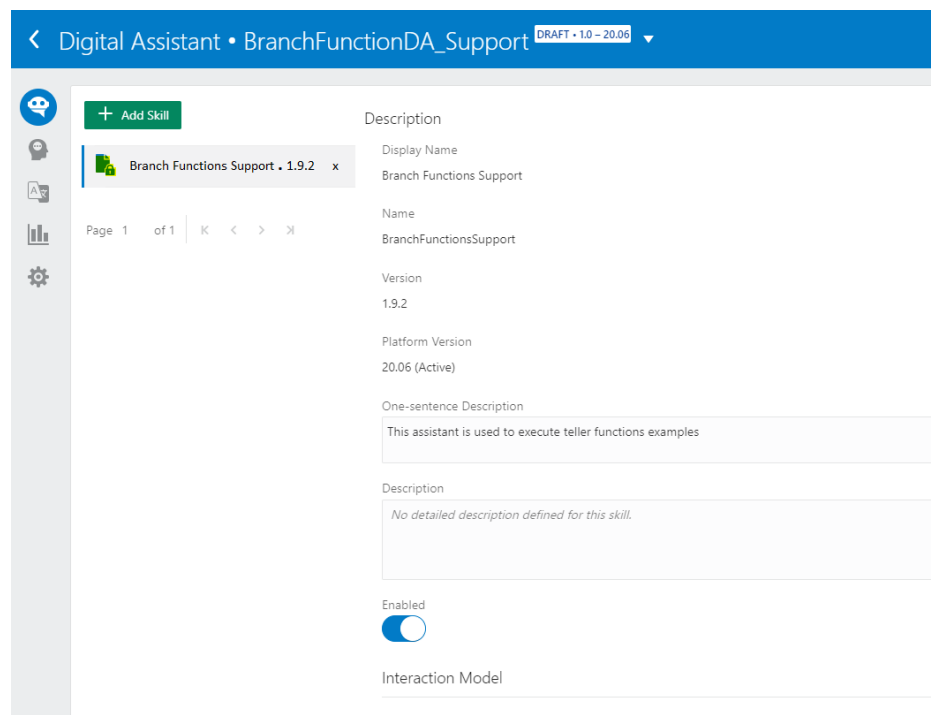
2. Map the added skill to the digital assistant as follows:
 - a. On the ODA Homepage, click **Digital Assistants** in the menu.
The **Digital Assistants** screen is displayed.

Figure 16-7 Digital Assistants



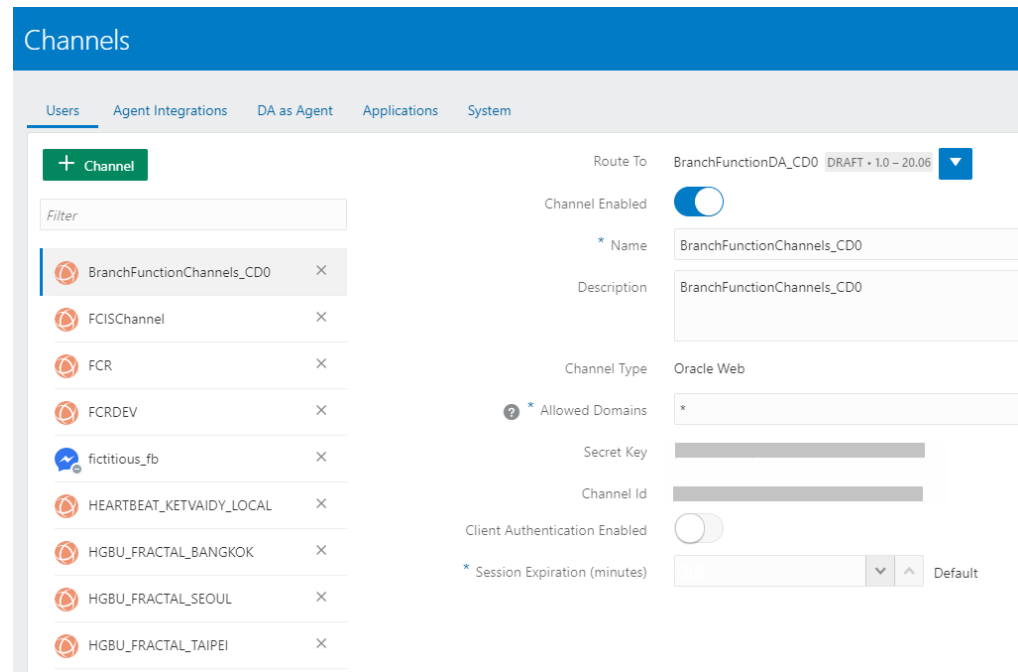
- b. Map the skill created with your digital assistant on the **Digital Assistants** screen or import the Digital Assistant from OBBRN_ODA/OBBRN Digital Assistant/OBBRNDigitalAssistant.zip.

Figure 16-8 Digital Assistant - Mapped Skill



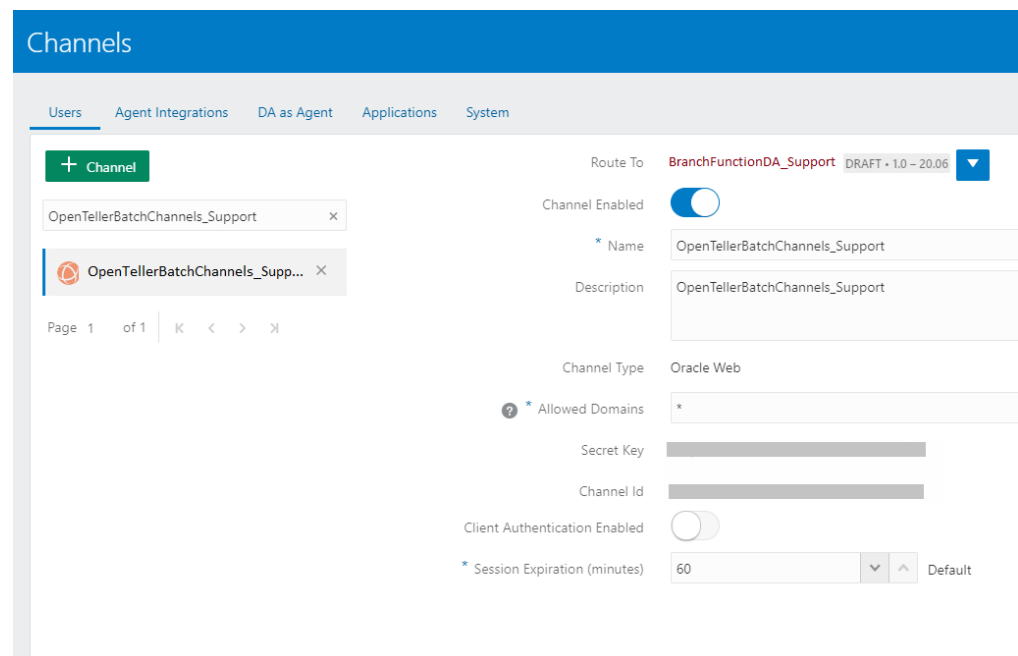
3. Map the digital assistant to the channel as follows:
 - a. On the ODA Homepage, click **Channels** in the menu.
The **Channels** screen is displayed.

Figure 16-9 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 16-10 Channels - Users



Known Issues and Resolutions

This section provides the troubleshooting for the deployment failure in OBORN 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: /OBORN_INITIAL_SETUP/plato-security-toolkit-9.1.0.jar.

Command: java -jar target\plato-security-toolkit-9.1.0.jar

Input and Output Examples as below:

- Enter pass phrase: Test123
- Enter Salt: 0.9412345671234567
- Encrypted Password: AAAAAAAAAAAAAAAAAA282FCixC1h98xgwSOD/U2u1DiwwLZ1E=

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-OB RH-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.IllegalStateException: 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.`