

Oracle Banking Origination Installation Guide

Oracle Banking Origination

Release 14.5.3.0.0

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1.1 Introduction

This guide helps you to install the Oracle Banking Origination services, User Interface, and Conductor Process flow on designated environments. It is assumed that all the prior setup is already done related with WebLogic installation, WebLogic managed server creation and Oracle DB installation.

It is recommended to use dedicated managed server for each of the Oracle Banking Microservices Architecture services, Oracle Banking Origination Services and Oracle Banking Origination User Interface.

1.2 Audience

This document is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/us/corporate/accessibility/index.html>.

1.4 Organization

This installation user guide would allow you to install the below mentioned Oracle Banking Origination services, UI, process flow in same order. Also mentioned is the list of Common Core services required by Oracle Banking Origination services

Common Core Services

1. cmc-account-services
2. cmc-additional-attributes-services
3. cmc-advice-services
4. cmc-base-services
5. cmc-branch-services
6. cmc-businessoverrides-services
7. cmc-checklist-services
8. cmc-comments-services
9. cmc-currency-services
10. cmc-customer-services
11. cmc-datasegment-services
12. cmc-document-services
13. cmc-documentmanagement-services
14. cmc-external-chart-account
15. cmc-ml-indb-services
16. cmc-obcbs-services
17. cmc-obrh-service

18. cmc-opds-services
19. cmc-priority-services
20. cmc-processcode-service
21. cmc-report-services
22. cmc-resource-segment-orchestrator-service
23. cmc-screenclass-services
24. cmc-sequencegenerator-services
25. cmc-sla-services
26. cmc-transactioncontroller-services
27. cmc-resourceclass-services

Oracle Banking Origination Services

1. obremo-rpm-maintenance-services
2. obremo-rpm-process-driver-services
3. obremo-rpm-businessprocess-services
4. obremo-rpm-businessproductdetails-services
5. obremo-rpm-cmn-applicantservices
6. obremo-rpm-cmn-hostservices
7. obremo-rpm-cmn-scorecardservices
8. obremo-rpm-lo-loanapplications
9. obremo-rpm-sav-account-service
10. obremo-rpm-term-deposit-service
11. obremo-rpm-projection-services
12. obremo-rpm-batch-services
13. obremo-rpm-cmn-ipaservices
14. obremo-rpm-cmn-collateralservices
15. obremo-rpm-creditcardapplication
16. obremo-rpm-rule-configurationservice
17. obremo-rpm-cmn-mlservice

User Interface

UI war is split into individual component server war files. All the component server war files should be deployed in the same managed server.

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

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

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

1. oboflo-component-server

Oracle Banking Origination Process Workflow

1. CURRENTACCOUNT
2. EDUCATIONLOAN
3. HOMELOAN
4. INITIATION
5. IPA
6. PERSONALLOAN
7. SAVINGSACCOUNT
8. CASAHOSTORCH
9. VEHICLELOAN
10. HOSTORCHESTRATOR
11. TDACCOUNT
12. TDHOSTORCH
13. INSTCURACC
14. INSTSAVACC
15. INSTTDACC
16. CREDITCARD

1.5 Related documents

For more information, refer to the following documents:

- Getting Started User Guide
- Oracle Banking Origination Pre-installation Guide
- ANNEXURE-1

2. Database Setup

2.1 Introduction

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

2.2 Prerequisite

In this section, you are going to setup database related configuration for Oracle Banking Origination Installation. Before you proceed, ensure pre-installation setup is done. The pre-installation setup includes the configuration of database, setting up the setUserOverrides.sh. After creating the schema for each of the required micro services, DDLs and INCs of each micro-service to be compiled in the respective schemas. The DDLs and INCs ensure the creation of tables and availability of static data required for the execution of services. These are compiled automatically using flyway.

2.3 Database Setup

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

Service Name	Schema Required
obremo-rpm-maintenance-services	Yes (obremo-rpm-maintenance-services schema)
obremo-rpm-process-driver-services	Yes (obremo-rpm-process-driver-services schema)
obremo-rpm-businessprocess-services	Yes (obremo-rpm-businessprocess-services schema)
obremo-rpm-businessproductdetails-services	Yes (obremo-rpm-businessproductdetails-services schema)
obremo-rpm-cmn-applicantservices	Yes (obremo-rpm-cmn-applicantservices schema)
obremo-rpm-cmn-hostservices	Yes (obremo-rpm-cmn-hostservices schema)
obremo-rpm-cmn-scorecardservices	Yes (obremo-rpm-cmn-scorecardservices schema)
obremo-rpm-lo-loanapplications	Yes (obremo-rpm-lo-loanapplications schema)
obremo-rpm-sav-account-service	Yes (obremo-rpm-sav-account-service schema)
obremo-rpm-term-deposit-service	Yes Yes (obremo-rpm-term-deposit-service schema)
obremo-rpm-projection-services	Yes (obremo-rpm-projection-services schema)
obremo-rpm-batch-services	No (uses the plato batch server schema)
obremo-rpm-cmn-ipaservices	Yes (obremo-rpm-cmn-ipaservices schema)

Service Name	Schema Required
obremo-rpm-cmn-collateralservices	Yes (obremo-rpm-cmn-collateralservices schema)
obremo-rpm-creditcardapplication	Yes (obremo-rpm-creditcardapplication schema)
obremo-rpm-cmn-mlservice	Yes (obremo-rpm-cmn-mlservice schema)
obremo-rpm-rule-configurationservice	No(Plato rule schema)

3. Oracle Banking Origination Services Domains Configuration

3.1 Prerequisites

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

NOTE: Before proceeding with below steps complete Oracle Banking Microservices Architecture installation guided.

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

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

3.2 Oracle Banking Origination Service Domain Creation

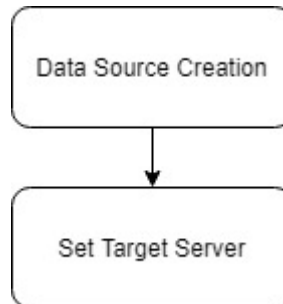
It is recommended to have separate domain for Oracle Banking Origination application. For Creating Domain and Configuration, refer to **How to create and Cluster Configuration** section in ANNEXURE-1.

Service Name	Domain Name
obremo-rpm-maintenance-services	Oracle Banking Origination Domain
obremo-rpm-process-driver-services	Oracle Banking Origination Domain
obremo-rpm-businessprocess-services	Oracle Banking Origination Domain
obremo-rpm-businessproductdetails-services	Oracle Banking Origination Domain
obremo-rpm-cmn-applicantservices	Oracle Banking Origination Domain
obremo-rpm-cmn-hostservices	Oracle Banking Origination Domain
obremo-rpm-cmn-scorecardservices	Oracle Banking Origination Domain
obremo-rpm-lo-loanapplications	Oracle Banking Origination Domain
obremo-rpm-term-deposit-service	Oracle Banking Origination Domain
obremo-rpm-batch-services	Oracle Banking Origination Domain
obremo-rpm-projection-services	Oracle Banking Origination Domain
obremo-rpm-sav-account-service	Oracle Banking Origination Domain
obremo-rpm-cmn-ipaservices	Oracle Banking Origination Domain
obremo-rpm-cmn-collateralservices	Oracle Banking Origination Domain
obremo-rpm-creditcardapplication	Oracle Banking Origination Domain
obremo-rpm-cmn-mlservice	Oracle Banking Origination Domain
obremo-rpm-rule-configurationservice	Oracle Banking Origination Domain

4. Data Sources Creation

4.1 Prerequisite

Database setup for Oracle Banking Origination has to be performed prior to deployment setup. The data sources for the respective micro-services must be created first before the application deployment. Each of the data source target to their corresponding servers on which the application will be deployed. The following sections explain the list of data sources required to be created for Oracle Banking Origination services and the steps to configure them in the server.



4.2 Data sources List

The table below lists the data sources to be created on each domain prior to deployment of applications onto managed servers.

Service Name	Data source Name	Data source JNDI	Targets
obremo-rpm-maintenance-services	RPMMAINTEANCE	jdbc/OBREMOMAIN TCE	Oracle Banking Origination Managed Server
obremo-rpm-process-driver-services	RPMProcessDriver	jdbc/RMPROCE SSDRIVER	Oracle Banking Origination Managed Server
obremo-rpm-businessprocess-services	RPMBusinessProcesses	jdbc/OBREMOBU SSPRC	Oracle Banking Origination Managed Server
obremo-rpm-businessproductdetails-services	RPMBusinessProduct	jdbc/OBREMOBP DETAILS	Oracle Banking Origination Managed Server
obremo-rpm-cmn-applicantservices	RPMComnApplicant	jdbc/CMNAPPLIC ANT	Oracle Banking Origination Managed Server
obremo-rpm-cmn-hostservices	RPMHostService	jdbc/RPMHOST	Oracle Banking Origination Managed Server
obremo-rpm-cmn-scorecardservices	RPMscorecard	jdbc/CMNSCORE CARD	Oracle Banking Origination Managed Server
obremo-rpm-lo-loanapplications	RPMLoan	jdbc/LOANAPP	Oracle Banking Origination Managed Server

Service Name	Data source Name	Data source JNDI	Targets
obremo-rpm-term-deposit-service	RPMTD	Jdbc/TDACC	Oracle Banking Origination Managed Server
obremo-rpm-projection-services	RPMPROJECTION	jdbc/RPMPROJECTION	Oracle Banking Origination Managed Server
obremo-rpm-sav-account-service	RPMSaving	jdbc/SAVACC	Oracle Banking Origination Managed Server
obremo-rpm-cmn-ipaservices	RPMIPA	jdbc/IPA	Oracle Banking Origination Managed Server
obremo-rpm-cmn-collateralservices	RPMCOLLATERAL	jdbc/OBREMOCOLLATERAL	Oracle Banking Origination Managed Server
obremo-rpm-creditcardapplication	RPMCREDITCARD	jdbc/CCAPP	Oracle Banking Origination Managed Server
obremo-rpm-cmn-mlservice	RPMML	jdbc/OBREMOML	Oracle Banking Origination Managed Server, CMC Managed Server

4.3 Steps to Create Datasource

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

4.4 Additional Datasource Mapping

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

Data source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Oracle Banking Origination Managed Server
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	Oracle Banking Origination Managed Server
SMS	jdbc/sms	Oracle Banking Origination Managed Server
PLATOBATCH	jdbc/PLATOBATCH	Oracle Banking Origination Managed Server
PLATORULE	jdbc/PLATORULE	Oracle Banking Origination Managed Server
COMMON CORE	jdbc/CMNCORE	Oracle Banking Origination Managed Server

4.5 User Grants

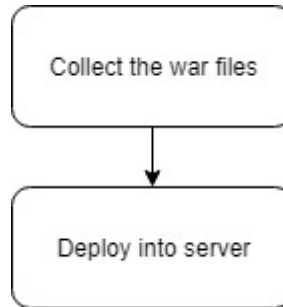
The following grants are provided to the user in the Projection schema which is required for Machine Learning use cases.

- GRANT CREATE MINING MODEL TO <RPMML SCHEMA>;
- GRANT CREATE ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT ALTER ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT DROP ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT SELECT ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT COMMENT ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT AUDIT ANY TO <RPMML SCHEMA>;
- GRANT EXECUTE ON DBMS_DATA_MINING to <RPMML SCHEMA>;
- GRANT CREATE TABLE TO <RPMML SCHEMA>
- GRANT DROP ANY TABLE TO <RPMML SCHEMA>

5. Deployments

5.1 Prerequisite

The database setup and data sources creation have to be performed prior to the application deployment stage. Each of the services corresponds to a specific war file that needs to be deployed into the server. The following sections explain the list of war files of the Oracle Banking Origination application and the steps to deploy them into the server.



5.2 Deployments List

Below table give details of the deployments required on each domain for the Oracle Banking Origination application to run. Deploy one after other in the same given order. The provided archive names are for reference purpose. Refer to the exact archive names available as a part of release.

Application	Archive name	OSDC path	Targets
Maintenance Services	obremo-rpm-maintenance-services-{version}.war	{ unzip the file } OFLO_SERVICES\obremo-rpm-maintenance-services	Oracle Banking Origination Managed Server
Process Driver	obremo-rpm-process-driver-services-{version}.war	{ unzip the file } OFLO_SERVICES\obremo-rpm-process-driver-services	Oracle Banking Origination Managed Server
Business Process	obremo-rpm-businessprocess-services-{version}.war	{ unzip the file } OFLO_SERVICES\obremo-rpm-businessprocess-services	Oracle Banking Origination Managed Server
Business Product details	obremo-rpm-businessproductdetails-services-{version}.war	{ unzip the file } OFLO_SERVICES\ obremo-rpm-businessproductdetails-services	Oracle Banking Origination Managed Server
Common Applicant	obremo-rpm-cmn-applicantservices-{version}.war	{ unzip the file } OFLO_SERVICES\obremo-rpm-cmn-applicantservices	Oracle Banking Origination Managed Server

Application	Archive name	OSDC path	Targets
Host Services	obremo-rpm-cmn-hostservices-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-cmn-hostservices	Oracle Banking Origination Managed Server
ScoreCard	obremo-rpm-cmn-scorecardservices-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-cmn-scorecardservices	Oracle Banking Origination Managed Server
Loan Applicant Services	obremo-rpm-lo-loanapplications-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-lo-loanapplications	Oracle Banking Origination Managed Server
Savings (CASA) Services	obremo-rpm-sav-account-service-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-sav-account-service	Oracle Banking Origination Managed Server
TD Services	obremo-rpm-term-deposit-service-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-term-deposit-service	Oracle Banking Origination Managed Server
Batch Service	obremo-rpm-batch-services-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-batch-services	Oracle Banking Origination Managed Server
PROJECTION Service	obremo-rpm-projection-services-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-projection-services	Oracle Banking Origination Managed Server
IPA Service	obremo-rpm-cmn-ipaservices-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-cmn-ipaservices	Oracle Banking Origination Managed Server
Collateral Service	obremo-rpm-cmn-collateralservices-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-cmn-collateralservices	Oracle Banking Origination Managed Server
Credit Card Service	obremo-rpm-creditcardapplication-{version}.war	{unzip the file} OFLO_SERVICES\obremo-rpm-creditcardapplication	Oracle Banking Origination Managed Server

Application	Archive name	OSDC path	Targets
ML SERVICE	obremo-rpm-cmn-mlservice-{version}.war	{unzip the file} OFLO_SERVICES\ obremo-rpm-cmn-mlservice	Oracle Banking Origination Managed Server
RULE CONFIGURATION SERVICE	obremo-rpm-rule-configurationservice-{version}.war	{unzip the file} OFLO_SERVICES\ obremo-rpm-rule-configurationservice	Oracle Banking Origination Managed Server

NOTE: Refer to OSDC zip for the exact version number for each services.

5.3 Steps to Deploy as Application

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

6. Restarts and Refresh

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

6.1 Restarting Servers

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

7. Logging Area

7.1 Introduction

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

7.1.1 Logging Area

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

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

Let's assume a domain has been created **oflo_domain** with **managed_server** name called **OFLOAPP** in the following area of the server

~/middleware/user_projects/domains/**oflo_domain**". Logging area for Oracle Banking Origination applications would be

~/middleware/user_projects/domains/**oflo_domain**/servers/**OFLOAPP**/logs/ **OFLOAPP.out**.

8. Oracle Banking Origination UI Domain and Cluster Configuration

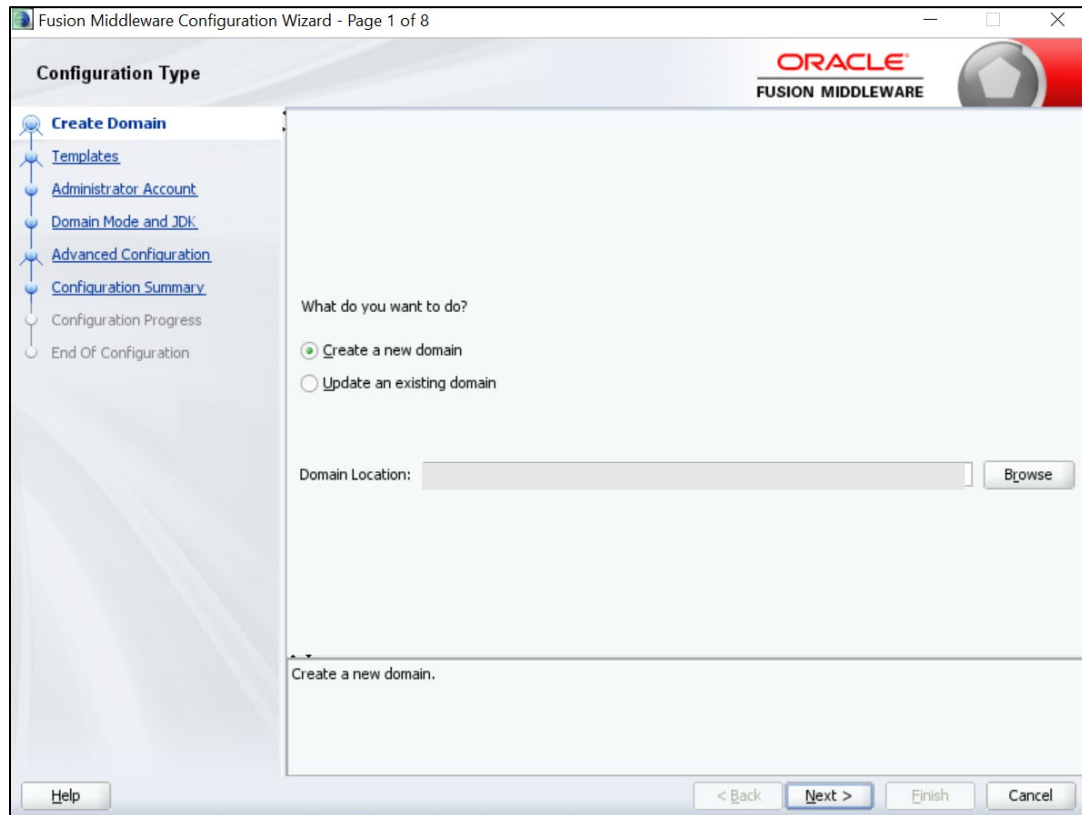
8.1 Prerequisites

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

Note: For the exact version to be installed, refer to **Software Prerequisites** section in **License Guide**.

8.2 Oracle Banking Origination UI Domain

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



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

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

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

Below the fields, a note states: "Port number must be between 1 and 65535, and different from SSL listen port and coherence port." At the bottom, there are buttons for Help, < Back, Next >, Finish, and Cancel.

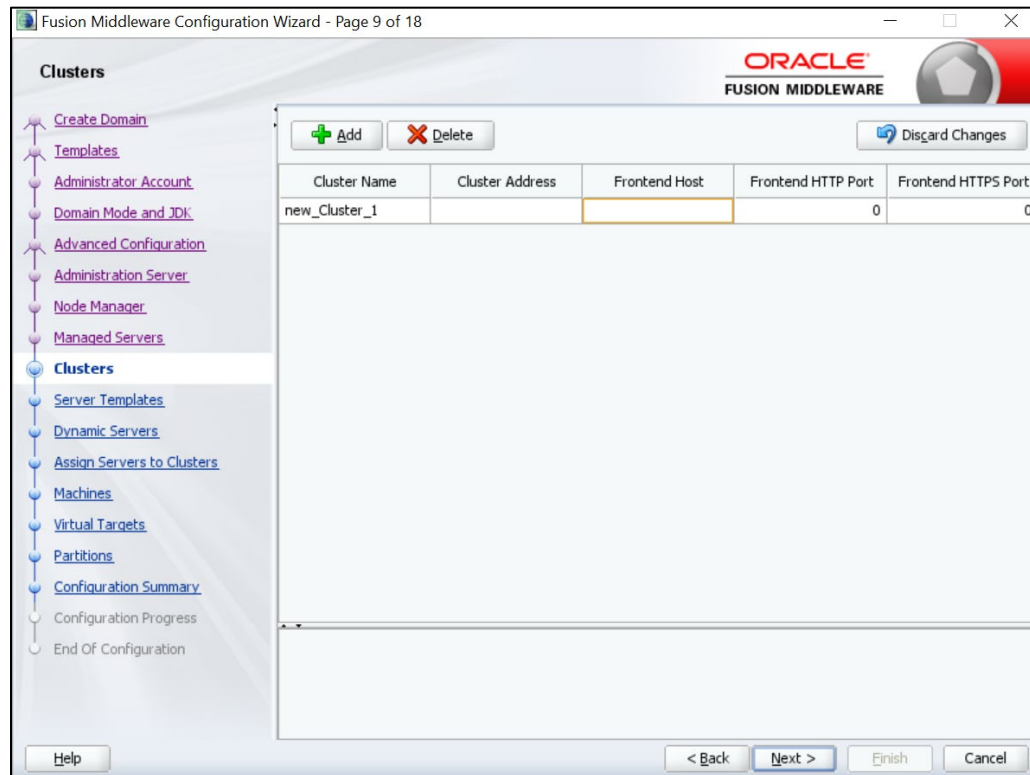
3. On **Managed Servers** screen, add entry for managed server, and click **Next**.

The screenshot shows the 'Managed Servers' configuration screen. The left sidebar contains a navigation tree with the following items: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, Administration Server, **Managed Servers** (selected), Clusters, Server Templates, Machines, Virtual Targets, Partitions, Configuration Summary, Configuration Progress, and End Of Configuration. The main area contains a table with the following columns: Server Name, Listen Address, Listen Port, Enable SSL, and SSL Listen Port. The table has one row with the following data:

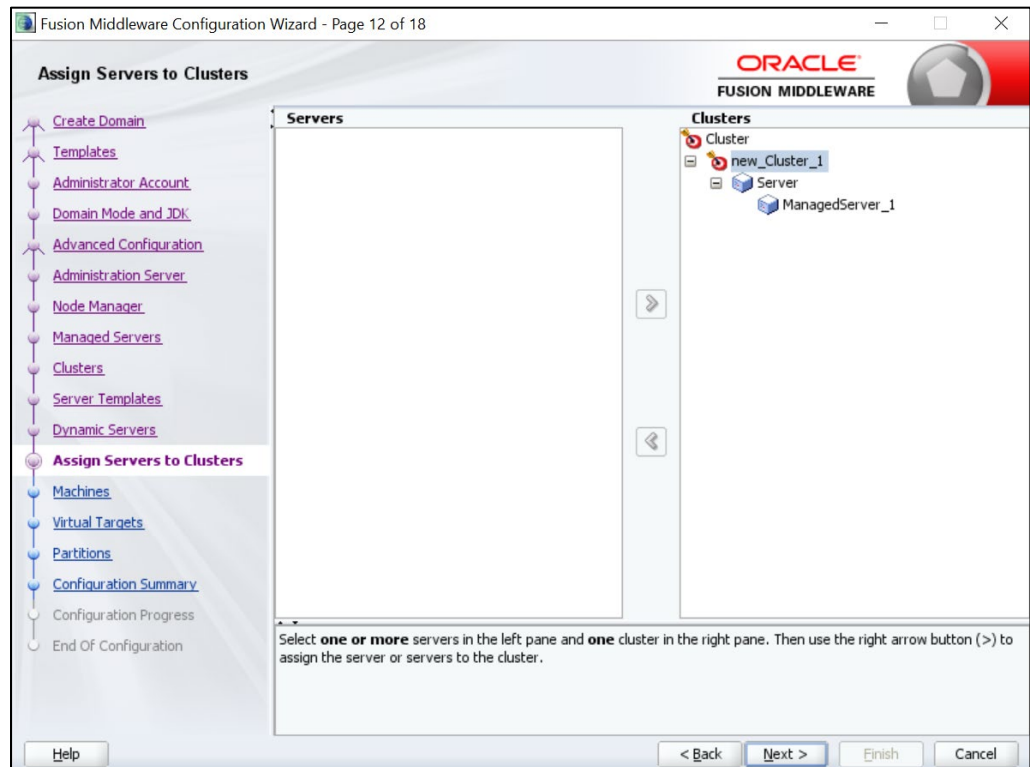
Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port
ManagedServer_1	All Local Addresses	9903	<input checked="" type="checkbox"/>	Disabled

At the top of the table area, there are buttons for Add, Clone, Delete, and Discard Changes. At the bottom, there are buttons for Help, < Back, Next >, Finish, and Cancel.

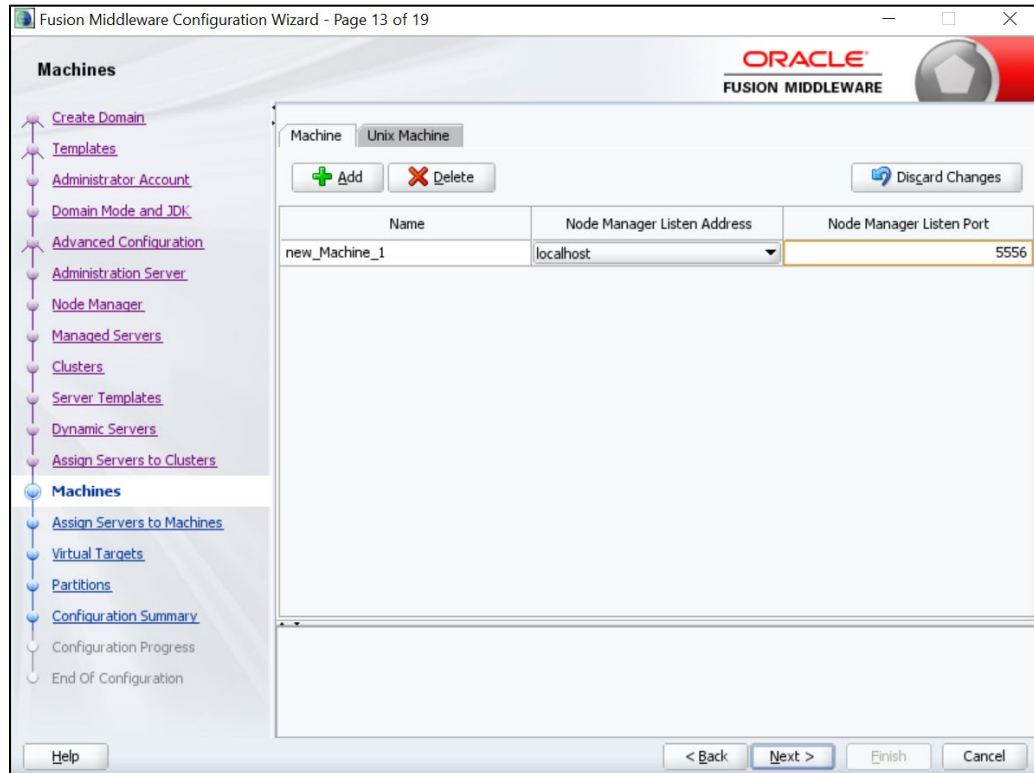
- On **Clusters** screen, add entry for cluster, and click **Next**.



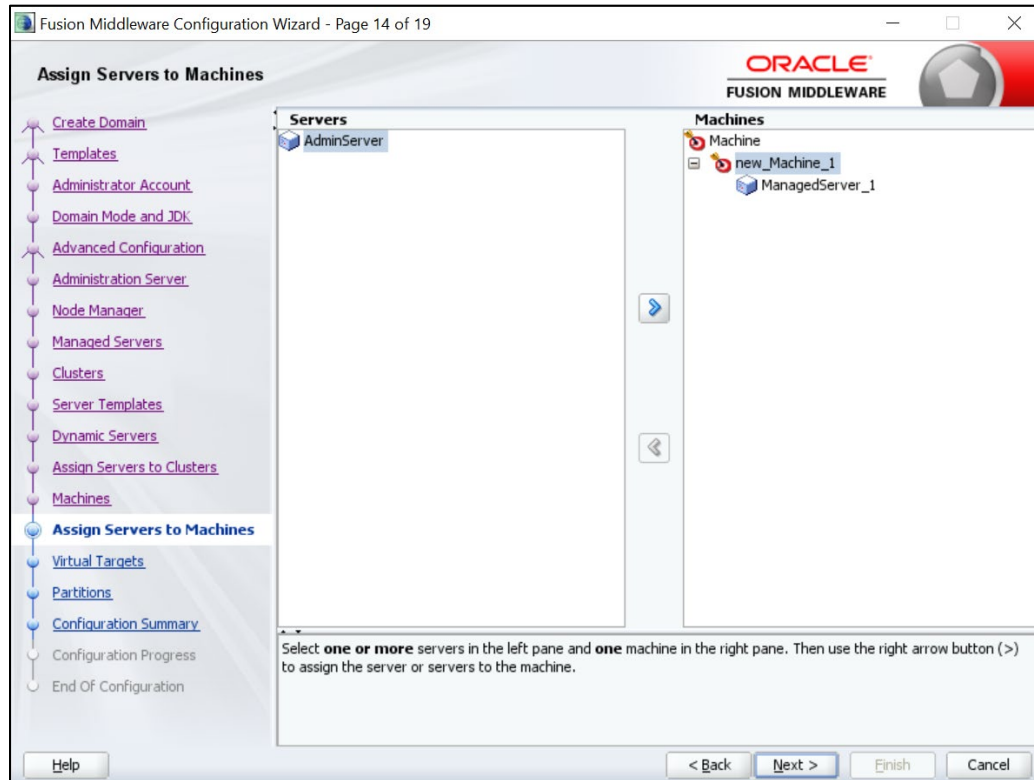
- On **Assign Server to Cluster** screen, assign the required servers, and click **Next**.



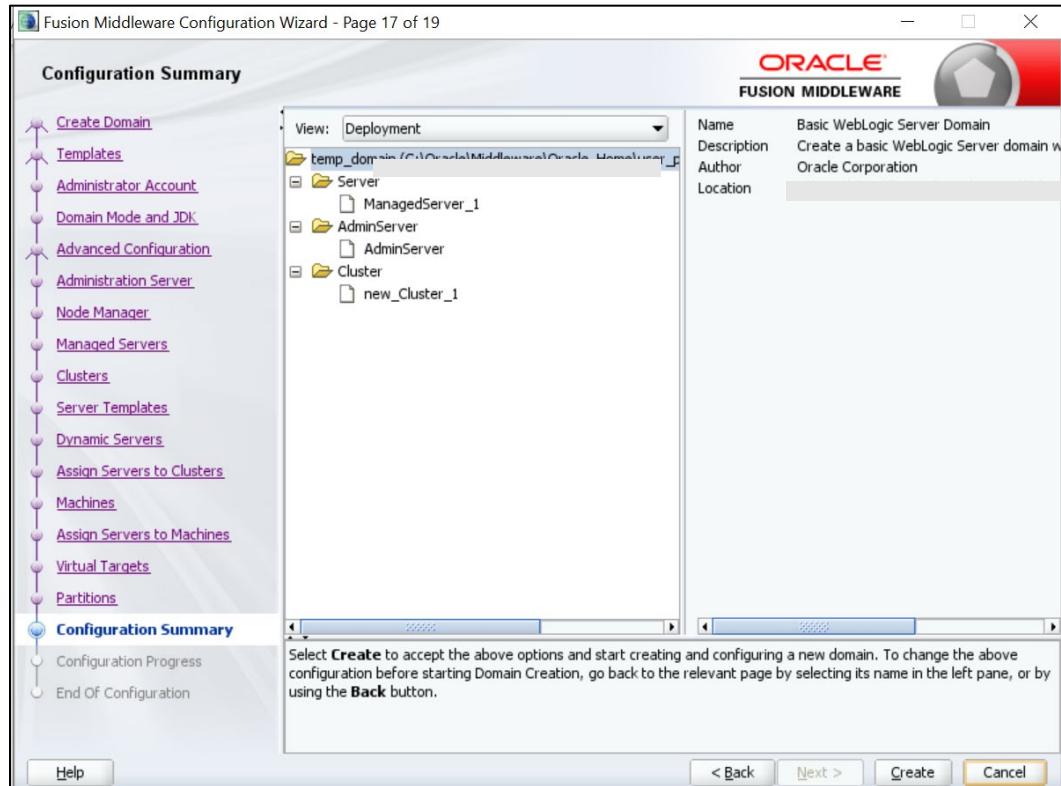
6. On **Machines** screen, add entry for the machine, and click **Next**.



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



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



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



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

The screenshot shows the 'Summary of Clusters' page in the Change Center. The left sidebar shows the 'Domain Structure' tree with 'Clusters' selected. The main content area displays the 'Summary of Clusters' page, which includes a table of clusters. The table has columns for Name, Cluster Address, Cluster Messaging Mode, Migration Basis, Default Load Algorithm, Replication Type, and Cluster Broadcast Channel. One cluster named 'new_Cluster_1' is listed with Unicast messaging mode and Database migration basis.

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

The screenshot shows the 'Summary of Machines' page in the Change Center. The left sidebar shows the 'Domain Structure' tree with 'Machines' selected. The main content area displays the 'Summary of Machines' page, which includes a table of machines. The table has columns for Name and Type. One machine named 'new_Machine_1' is listed with Type 'Machine'.

8.3 Post Domain creation configurations

Once finished, refer oracle fusion middleware documents for more details on how to start admin server, node manager and managed servers.

1. **Create boot.properties** file under `/user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security`.
2. Edit **boot.properties** and give username and password details.
3. Goto `/user_projects/domain/sms_domain/bin`.
4. Run **startWeblogic.cmd** (or **.sh** if operating system is linux).
5. Goto `/user_projects/domains/ sms _domain/bin`.
6. Run **setNMJavaHome.cmd** (**.sh**).
7. Goto `/user_projects/domains/ sms _domain/nodemanager`.
8. And edit **nodemanager.properties** as required(securelistener = false if ssl and keystore is not given) And in admin console also navigate to **Machines- > sms_Machine -> Node Manager -> Type -> Plain -> Save**.
9. Navigate to `/user_projects/domains/ sms _domain/bin`.
10. Run **startNodeManager.cmd** (or **.sh** if operating system is linux).
11. Start all managed servers.

Login to console and verify servers and clusters.

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

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

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

How do I...
 • Create Managed Servers
 • Clone servers
 • Delete Managed Servers

Summary of Servers
 Configuration Control

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

Customize this table
Servers (Filtered - More Columns Exist)
 Showing 1 to 2 of 2 Previous | Next

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

Summary of Servers
 Configuration Control

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

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

Summary of Clusters

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

Customize this table
Clusters (Filtered - More Columns Exist)
 Showing 1 to 1 of 1 Previous | Next

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

Summary of Clusters

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

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

Summary of Machines

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

Customize this table
Machines
 Showing 1 to 1 of 1 Previous | Next

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

Summary of Machines

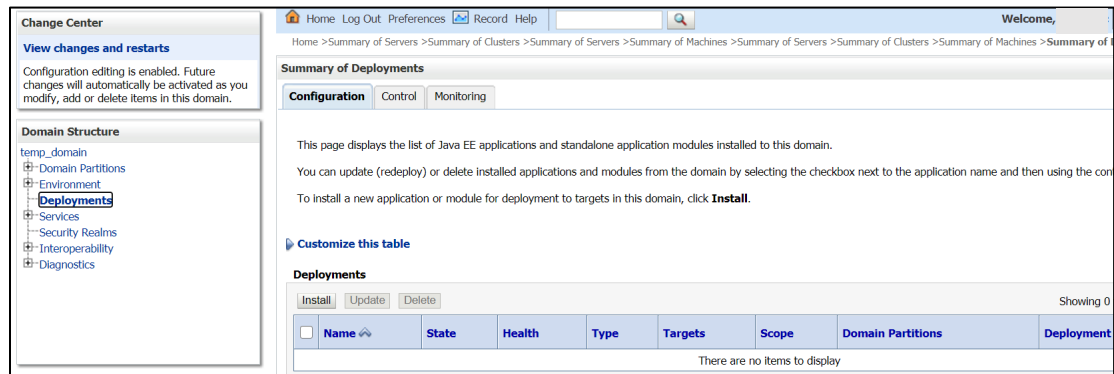
9. Oracle Banking Origination User Interface Deployments

9.1 Steps to deploy as application

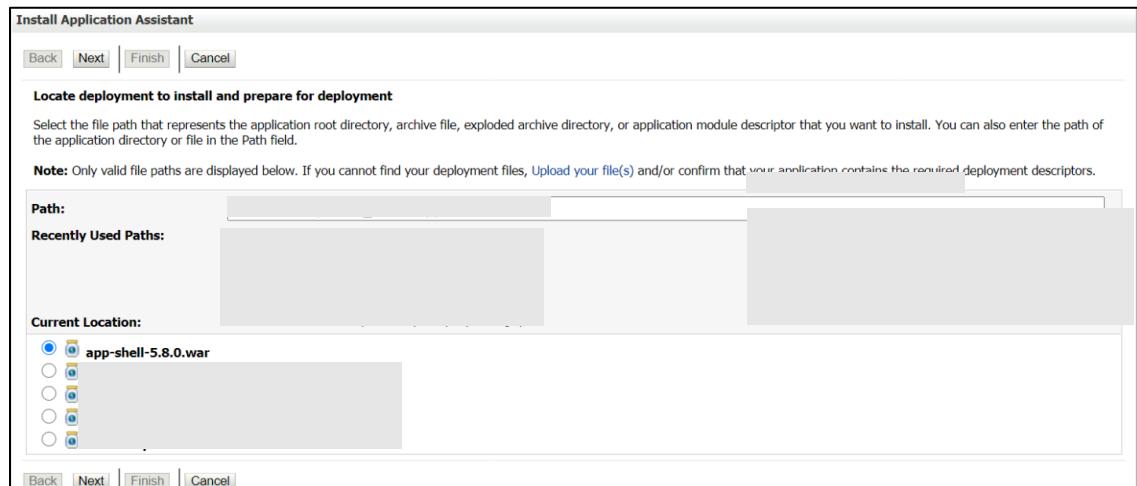
NOTE: Server names, Domain names need not to be same as this doc provides.

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

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



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



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

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

Install Application Assistant

Back Next Finish Cancel

Choose installation type and scope

Select if the deployment should be installed as an application or library. Also decide the scope of this deployment.

The application and its components will be targeted to the same locations. This is the most common usage.

Install this deployment as an application

Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing application.

Install this deployment as a library

Select a scope in which you want to install the deployment.

Scope: Global

Back Next Finish Cancel

7. Name the deployment as app_shell and click **Next**.
8. Check the option **Yes, take me to the deployment's configuration screen** and click **Finish**.

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: [Redacted]

Name: app-shell-5.8.0-1

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
app-shell-5.8.0	appshell

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

View changes and restarts

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

Home > Summary of Servers > Summary of Clusters > Summary of Servers > Summary of Machines > Summary of Servers > Summary of Clusters > Summary of Machines > Summary of Deployments > app-shell-sg:appshell > 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 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	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/>	<input type="checkbox"/>						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	AdminServer	Global	

Showing 1 to 1 of 1 Previous Next

How do I...

- Configure an enterprise application
- Start applications and modules
- Stop applications and modules
- View the modules of an enterprise application
- Monitor the modules of an enterprise application

NOTE: All UI war files should be deployed. Refer to [User Interface](#) in section 1.4.

10. Verify state is Active. If yes, open the URL in this format:

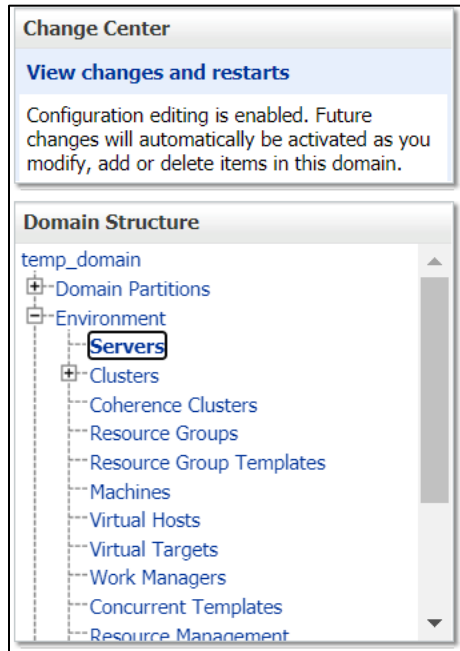
<http://HostName:PortNo/app-shell/>

10.Restarts and Refresh

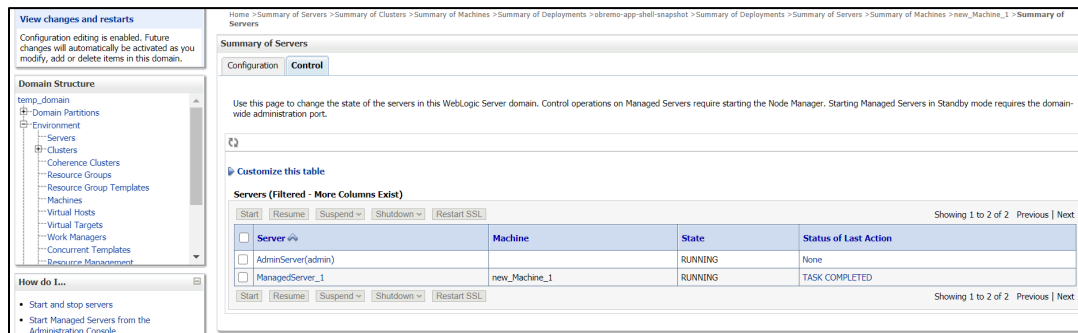
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

10.1 Restarting Servers

1. Navigate to **Environment** and then click **Servers**.



2. Click **Control** tab and select servers to shut down, and click **Yes** to confirm shutdown.



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

Domain Structure
temp_domain
- Domain Partitions
- Environment
- Servers
- Clusters
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- Resource Group Templates
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management

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

Summary of Servers
Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table
Servers (Filtered - More Columns Exist)
Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

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

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

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

Domain Structure
temp_domain
- Domain Partitions
- Environment
- Servers
- Clusters
- Coherence Clusters
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- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management

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

Summary of Servers
Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table
Servers (Filtered - More Columns Exist)
Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

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

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

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

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

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

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

Summary of Servers
Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table
Servers (Filtered - More Columns Exist)
Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)		RUNNING	None
<input type="checkbox"/> ManagedServer_1	new_Machine_1	STARTING	TASK IN PROGRESS(7 seconds)

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

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

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

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

Summary of Servers
Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table
Servers (Filtered - More Columns Exist)
Start Resume Suspend Shutdown Restart SSL Showing 1 to 2 of 2 Previous Next

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

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

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

View changes and restarts

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

Domain Structure

- temp_domain
- [-] Domain Partitions
- [-] Environment
- [-] **Deployments**
- [-] Services
- [-] Security Realms
- [-] Interoperability
- [-] Diagnostics

How do I...

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

Home > Summary of Deployments > obremo-app-shell-snapshot > Summary of Deployments > Summary of Servers > Summary of Machines > new_Machine_1 > Summary of Servers > Summary of Deployments > obremo-app-shell-snapshot > Summary of Deployments

Summary of Deployments

Configuration Control Monitoring

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

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

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

Customize this table

Install Update Delete

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

Install Update Delete

Showing 1 to 1 of 1 Previous Next

11. Deployments

11.1 Oracle Banking Origination Processes

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

Serial Number	Process Name	Dependent Process
1	CURRENTACCOUNT	None
2	EDUCATIONLOAN	None
3	HOMELOAN	None
4	INITIATION	None
5	IPA	None
6	PERSONALLOAN	None
7	SAVINGSACCOUNT	None
8	VEHICLELOAN	None
9	HOSTORCHESTRATOR	None
10	CASAHOSTORCH	None
11	TDACCOUNT	None
12	TDHOSTORCH	None
13	INSTCURACC	None
14	INSTSAVACC	None
15	INSTTDACC	None
16	CREDITCARD	None

11.2 Updating the process

Before deploying the process the following section to be updated with the server ip/port for the end points used in the process.

For each process, open the process to find for “http_request” and modify the following in the uri.

```
"uri": "http://{{PROCESS\_SERVER\_HOST}}:{{PROCESS\_SERVER\_PORT}}/
```

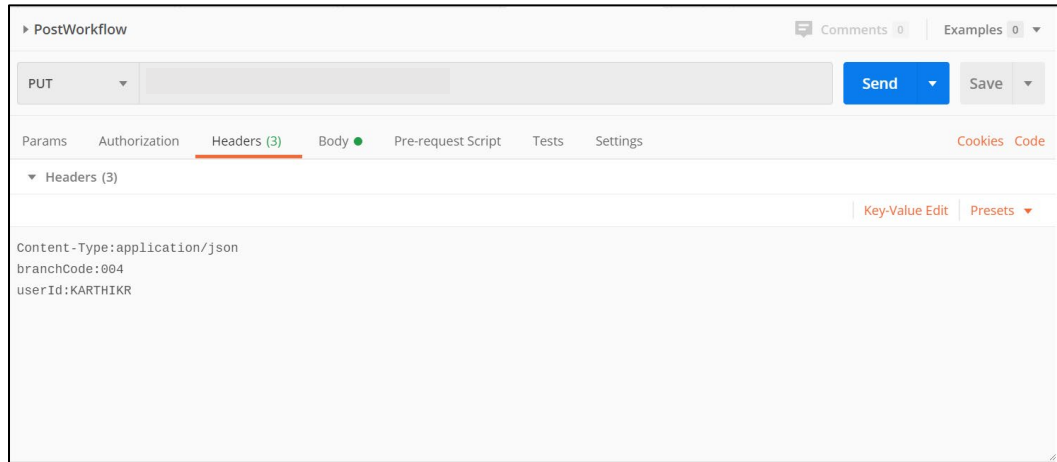
{{PROCESS_SERVER_HOST}} - IP of the Conductor server.

{{PROCESS_SERVER_PORT}} - Port of the Conductor server

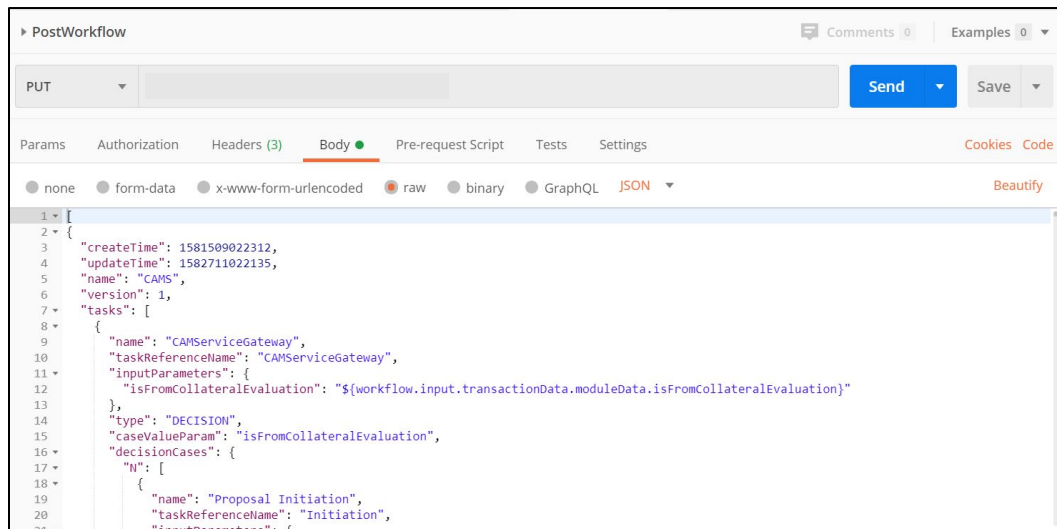
11.3 Steps to Deploy Conductor Process

NOTE: Server names, Domain names need not to be same as this doc provides.
Steps to Deploy a process remains the same for all the process files:

1. Launch Postman.
2. Create a new Request (if not done already) and select **POST** method. If the process flow is already deployed and if you want to update it, then the method should be "PUT".
3. Input the header params as shown below:



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



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

The screenshot displays a REST client interface with the following details:

- Method:** PUT
- URL:** ht
- Buttons:** Send, Save
- Request Body (JSON):**

```
1022 {
1023   "inputParameters": [
1024     "partyId",
1025     "applicationNumber",
1026     "customerName"
1027   ],
1028   "outputParameters": {
1029     "rejectionRemarks": "${humantask_apprv_corp_loan.output.rejectionRemarks}",
1030     "loanGrantStatus": "${humantask_apprv_corp_loan.output.loanGrantStatus}",
1031     "emailStatus": "${CNFRM_CORP_LOAN.output.emailStatus}"
1032   },
1033   "schemaVersion": 2,
1034   "restartable": true,
1035   "workflowStatusListenerEnabled": false
1036 }
```
- Response Status:** 204 No Content
- Response Time:** 309ms
- Response Size:** 281 B
- Buttons:** Save Response
- Response Body:** Pretty, Raw, Preview, Visualize, JSON, [Copy], [Search]

12.Kafka Topics

12.1 Oracle Banking Origination Kafka Topics

Below mentioned are the Kafka topics that are used in Oracle Banking Origination. All the below topics are to be created and verified in the Kafka Server by using the command

<Kafka Bin Folder>/kafka-topics.sh --create --bootstrap-server <Broker ip/hostname>:<Broker Port> --replication-factor 1 --partitions 1 --topic <topic name>

1	Updating all the attributes related to a process	This event is used for populating projection data for rendering the dashboard.	rpmDashboard
2	Status change occurrence for an OFLO initiated transaction in Teller	This event is triggered when TD and savings initial funding option is selected as CASH, OFLO triggers a teller transaction Status change of the same transaction will be updated to OFLO asynchronously	InitialFundingAck
3	KYC status update for the Customer	This event is triggered related to when a customer onboarding request is sent to the party module. Party has its own workflow Whenever the KYC verification is completed from party module, notification will be sent to OFLO	PartyKYCStatusUpdate
4	Customer accepts the offer	This event is triggered related to when a customer onboarding request is sent to the party module. Party has its own workflow. A confirmation message will send from OFLO to the party module to notify that party module can proceed with creation of customer in their product processor	PartyHandoffNotification

5	Customer is created in product processor	After creating the customer in the product processor party module will send a message containing the created customer id to OFLO	PartyHandoffToHostStatus
6	Machine Learning Table Update	All services updates the required Machine Learning data into ML service table which will further be used for predicting the time required to complete the process	processTimePredictionMessage

13.Launching Oracle Banking Origination from UBS

13.1 Introduction

In this section you are going to setup database related configuration for Oracle Banking Origination Installation.

It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

13.2 Oracle FLEXCUBE Universal Banking Configurations

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

Maker	Checker	Date Time:	Date Time:	Mod No	Record Status	Authorization Status

A new Function id NGTELLER is released as Static Data and Ensure user roles has been maintained for the same. Once the roles are maintained Click Next Gen UI on tool bar. Next Gen UI Dashboard will be displayed with the list of products. Click OFLO product, which will Launch Plato Teller Dashboard. Ensure the same user id is maintained in for the Oracle Banking Origination product and it has necessary roles.

13.3 Oracle Banking Microservices Architecture Configurations

SECURITY_CONFIG table in PLATO_SECURITY schema should have the following entries.

Key	Value
INTEGRATION_ENABLED	True
INTEGRATION_CALLBACK_URL	https://FCUBShostname:FCUBSport/FCJNeoWeb/ValidationService/FCNonceValidation/validate

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



Oracle Banking Origination Installation Guide

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