Party Services Installation Guide
Oracle FLEXCUBE Onboarding
Release 14.4.0.3.0
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1. Preface

1.1 Introduction

This guide helps you to install the Party Services, User Interface, and Conductor Process flow on designated environments. It is assumed that all the prior setup is already done related with WebLogic 12c installation, WebLogic managed server creation and Oracle DB installation.

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 Party services, UI, process flow in same order:

It is recommended to use dedicated managed server for each of the Party Services.

Party Services

1. obpy-party-maintenance-service
2. obpy-stage-services
3. obpy-party-services
4. obpy-party-kyc-services
5. obpy-businessprocess-services
6. obpy-party-handoff-services
7. obpy-party-publisher-services
8. obpy-party-adapter-services
9. obpy-customer-services

Please note: obpy-customer-services is a service which needs to be deployed in Oracle FLEXCUBE Universal Banking end. Please refer to Customer Service Installation Guide.

User Interface

Follow the below steps to migrate from existing single app-shell (if deployed) to Foundation app-shell. With Foundation app-shell, UI war is split into individual component server war files. Delete any installed previous single UI app-shell war version and follow the below given steps. All the component server war files should be deployed in the same managed server.

Deploy the mentioned below Common Core war files

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

Deploy the Party Domain component war file

1. obpy-component-server

Similarly, other domain component war files can be deployed

Process Workflow

1. OBPY-PARTY-ONBOARDING-PROCESSFLOW
2. OBPY-PARTY-AMENDMENT-PROCESSFLOW
3. OBPY-PARTY-CORP-ONBOARDING-PROCESSFLOW
4. OBPY-FINANICALINSTITUIONONBOARDING-PROCESSFLOWS
5. OBPY-FINANCIALINSTITUTIONAMENDMENT-PROCESSFLOWS

1.5 Related documents

For more information, refer to the following documents:

- Plato Services Installation Guides.
- Common Core Services Installation Guides.
- Security Management System Services Installation Guide
- Customer Service Installation Guide.

2. Database Setup

2.1 Introduction

In this section you are going to setup database related configuration for Party Services Installation. It is generally recommended to create different schema for each application as required. Below setup is designed to work with separate schema for each application.

2.2 Pre-requisite

In this section, you are going to setup database related configuration for Party Services Installation. Before you proceed, ensure pre-installation setup is done. The pre-installation setup includes the configuration of database, setting up the **setUserOverrides.sh**. Create required schema for each of the micro services. The schema object creations and the static data required for the micro service will be automatically created during the deployment of the microservice in the respective schema.

2.3 Database Setup

To setup DB for Retail Operations schema's to be created:

Service Name	**Schema Required**
obpy-stage-services	Yes (obpy-party-service schema)
obpy-party-services	Yes (obpy-party-service schema)
obpy-party-kyc-services	Yes (obpy-party-service schema)
obpy-businessprocess-services	Yes (obpy-businessprocess-services)
obpy-party-handoff-services	Yes (obpy-party-service schema)
obpy-party-publisher-services	Yes (obpy-party-service schema)
obpy-party-maintenance-service	Yes (obpy-party-service schema)
obpy-party-adapter-services	Yes (obpy-party-service schema)
obpy-customer-services	No (Kindly check Customer Service Installation Guide)

.

3. Party Services Domains Configuration

3.1 Prerequisites

1. Machine should have Java JDK1.8.0_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4.0 has to be installed on the machine.

   NOTE: Before proceeding with below steps complete Plato installation guides.

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

3.2 Party Service Domain Creation

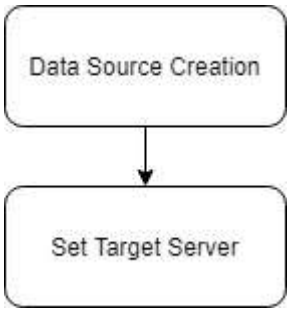
It is recommended to have separate domain for Party application. For Creating Domain and Configuration, refer to **How to create and Cluster Configuration** section in ANNEXURE-1.

Service Name	Domain Name
obpy-stage-services	Party Domain
obpy-party-services	Party Domain
obpy-party-kyc-services	Party Domain
obpy-businessprocess-services	Party Domain
obpy-party-handoff-services	Party Domain
obpy-party-publisher-services	Party Domain
obpy-party-maintenance-service	Party Domain
obpy-party-adapter-services	Party Domain
obpy-customer-services	Kindly check Customer Service Installation Guide

4. Data Sources Creation

4.1 Pre-requisite

Database setup for Party services 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 Party 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
obpy-stage-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-kyc-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-businessprocess-services	PARTY	jdbc/OBPYBPROC	Party Managed Server
obpy-party-handoff-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-publisher-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-maintenance-service	PARTY	jdbc/ PARTY	Party Managed Server
obpy-party-adapter-services	PARTY	jdbc/PARTY	Party Managed Server

4.3 Steps to Create Datasource

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

4.4 Additional Datasource Mapping

In order to deploy the services successfully, map the following data source to all the newly created managed servers. This required for the JNDI requirement for flyway migration.

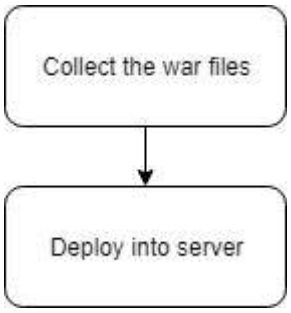
Data source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Party Managed Server
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	Party Managed Server
SMS	jdbc/sms	Party Managed Server
COMMON CORE	jdbc/CMNCORE	Party Managed Server

Kindly refer to the Plato Services Installation Guide, Common Core Services Installation Guide and Security Management System Services Installation Guide for more recent details on data sources.

5. Deployments

5.1 Pre-requisite

The database setup and data sources creation have to be performed prior to the application deployment stage. Each of the services corresponds to a specific war file that needs to be deployed into the server. The following sections explain the list of war files of the Retail Operations 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 Party application (OBPY) to run. Deploy one after other in the same given order. The provided archive names and OSDC path are for reference purpose only. Refer to the exact archive names available as a part of release.

Before deploying ensure that setUserOverrides.sh all placeholders values are set correctly. Please refer to the Plato Installation Guide for more details. If any placeholder is missed, the deployment will fail and incorrect value will result errors in application.

Application	Archive name	OSDC path	Targets
OBPY Party Maintenance Services	obpy-party-maintenance-service-5.0.0.war	{**unzip the file**} \obpy-party-maintenance-service	Party Managed Server
OBPY Stage Services	obpy-stage-services-5.1.0.war	{**unzip the file**} \stage-services	Party Managed Server
OBPY Party Services	obpy-party-services-5.1.0.war	{**unzip the file**} \obpy-party-services	Party Managed Server
Party KYC Services	obpy-party-kyc-services-5.0.0.war	{**unzip the file**} \obpy-party-kyc-services	Party Managed Server
OBPY Businessprocess Services	obpy-businessprocess-services-5.0.0.war	{**unzip the file**} \obpy-businessprocess-services	Party Managed Server
OBPY Party Handoff Services	obpy-party-handoff-services-5.0.0.war	{**unzip the file**} \obpy-party-handoff-services	Party Managed Server
OBPY Party Publisher Services	obpy-party-publisher-services-5.0.0.war	{**unzip the file**} \obpy-party-publisher-services	Party Managed Server

Application	Archive name	OSDC path	Targets
OBPY Party Adapter Services	obpy-party-adapter-services-5.0.0.war	{**unzip the file**} \obpy-party-adapter-services	Party Managed Server

5.3 Steps to Deploy as Application

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

Please note that for obpy-party-adapter-services the below placeholder value should be correctly set in the setUserOverrides.sh
Key: ubsEndpoint
Value: Point to the host and port where the obpy-customer-services is running (Sample http://hostname:port)

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 Party Applications in WebLogic server.

7.1.1 Logging Area

In general Party 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 **party_domain** with **managed_server** name called **PARTYAPP** in the following area of the server

~/middleware/user_projects/domains/**party_domain**". Logging area for Retail Operations applications would be **~/middleware/user_projects/domains/party_domain/servers/PARTYAPP/logs/ PARTYAPP.out.**

The logging path can now be configured by setting the placeholder value for plato.service.logging.path. For more details, please refer to Plato Infrastructure Services Installation Guide.

8. Party UI Domain and Cluster Configuration

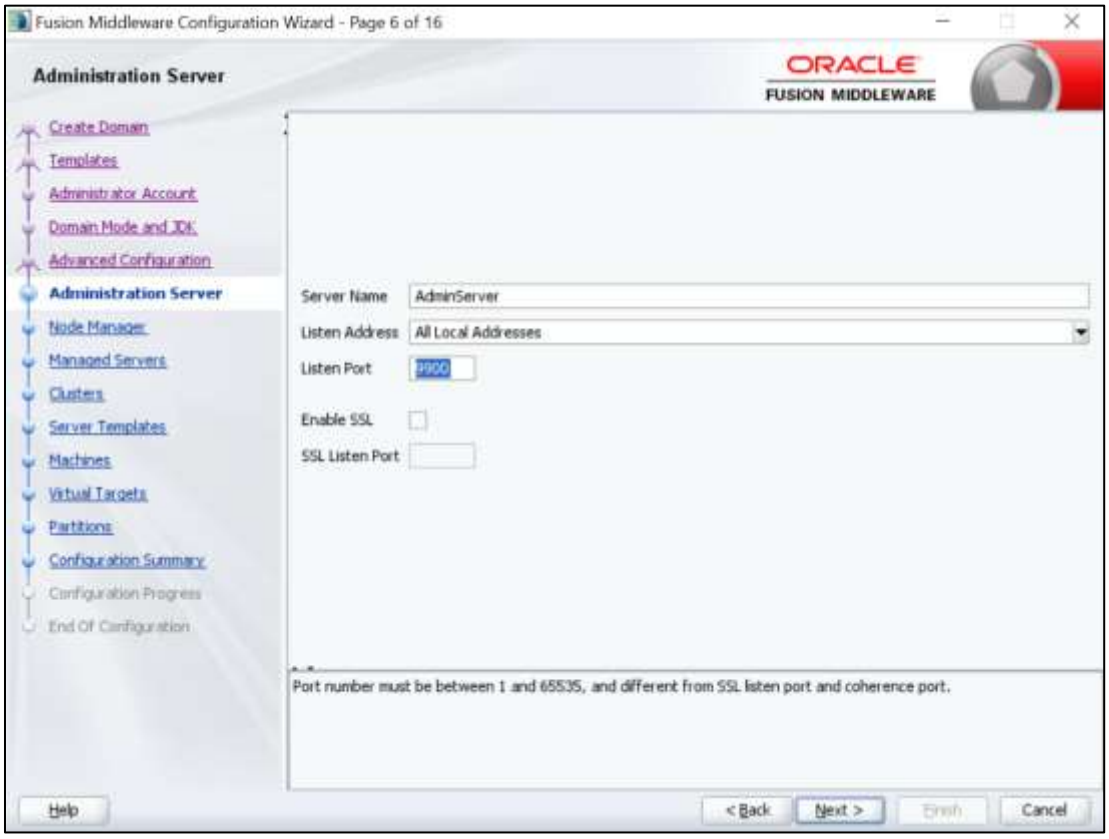
8.1 Prerequisites

1. Machine should have Java JDK1.8.0_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4 has to be installed on the machine.

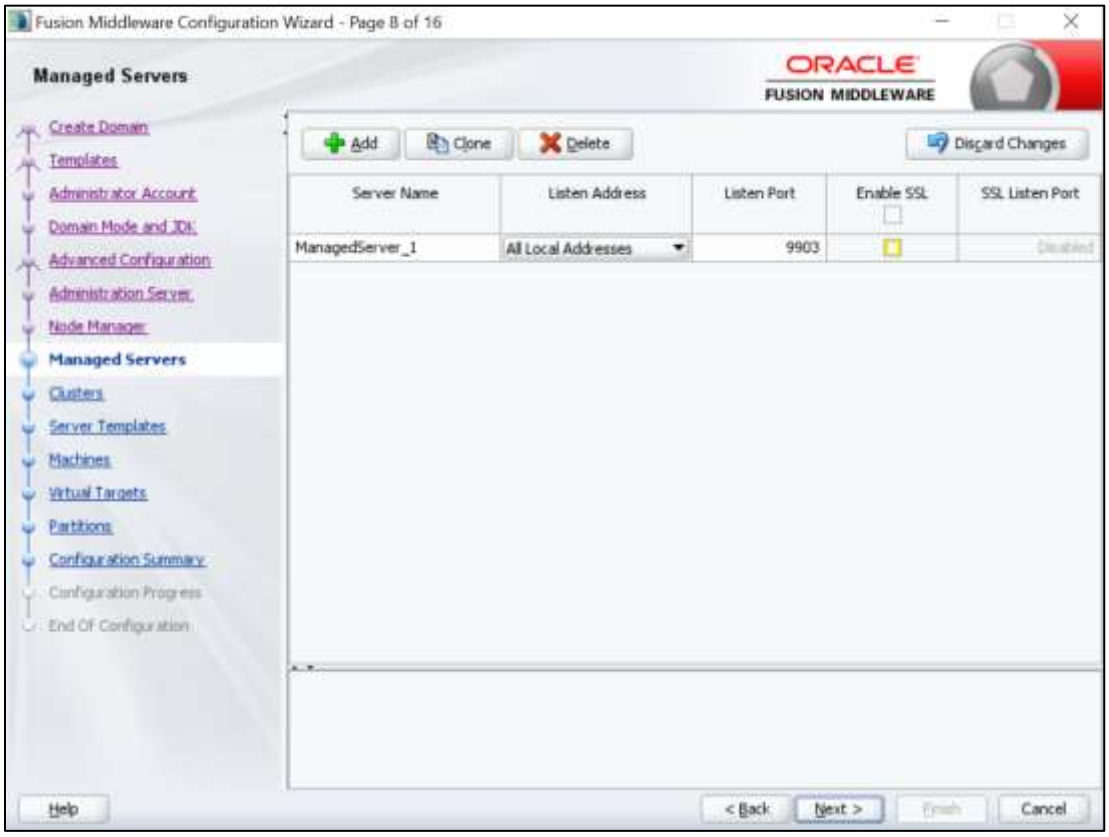
8.2 Party UI Domain

1. Click **Create Domain** tab, and select **Create a new domain** option. Specify the domain location. The names used are only for references.

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



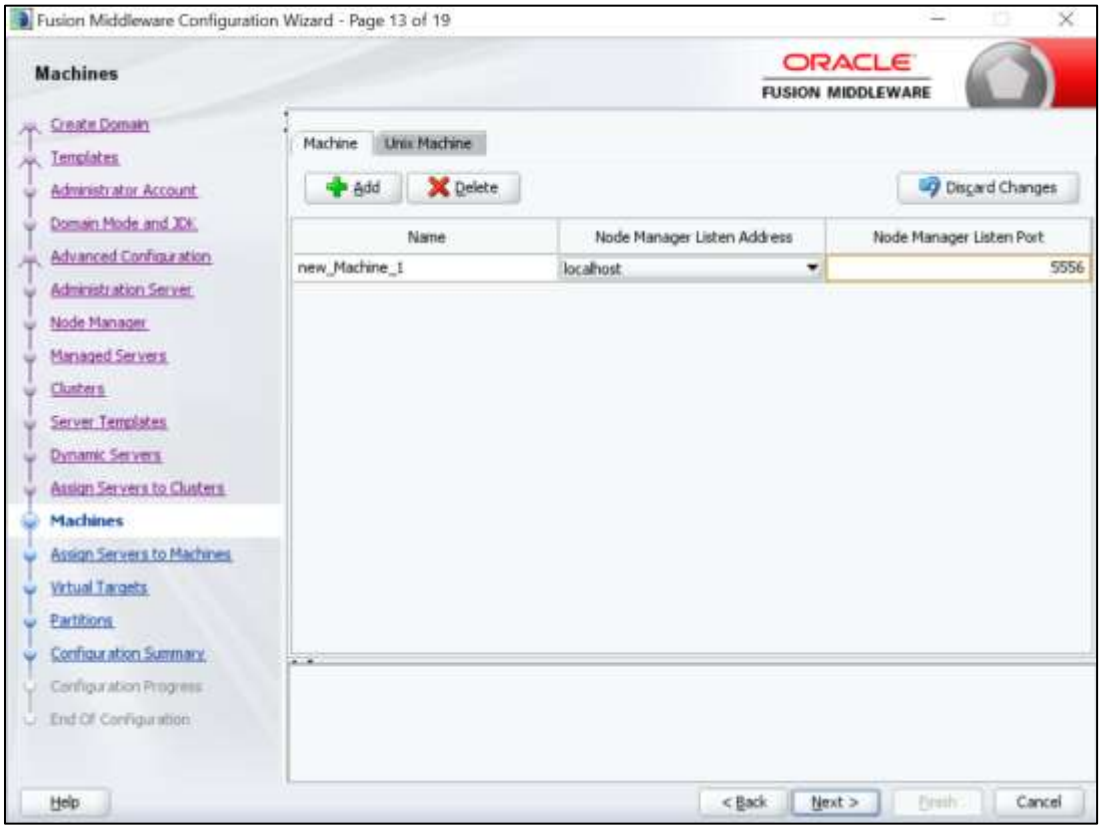
3. On **Managed Servers** screen, add entry for managed server, and click **Next**.



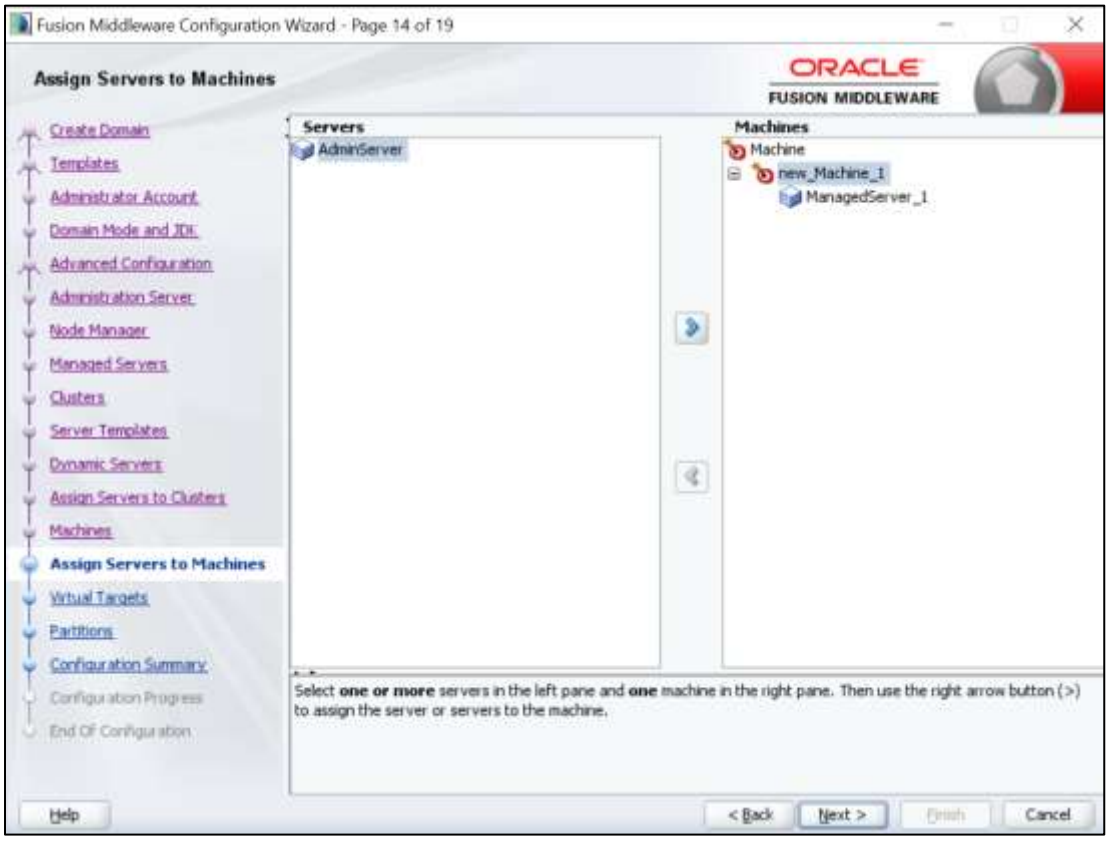
4. On **Clusters** screen, add entry for cluster, and click **Next**.

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

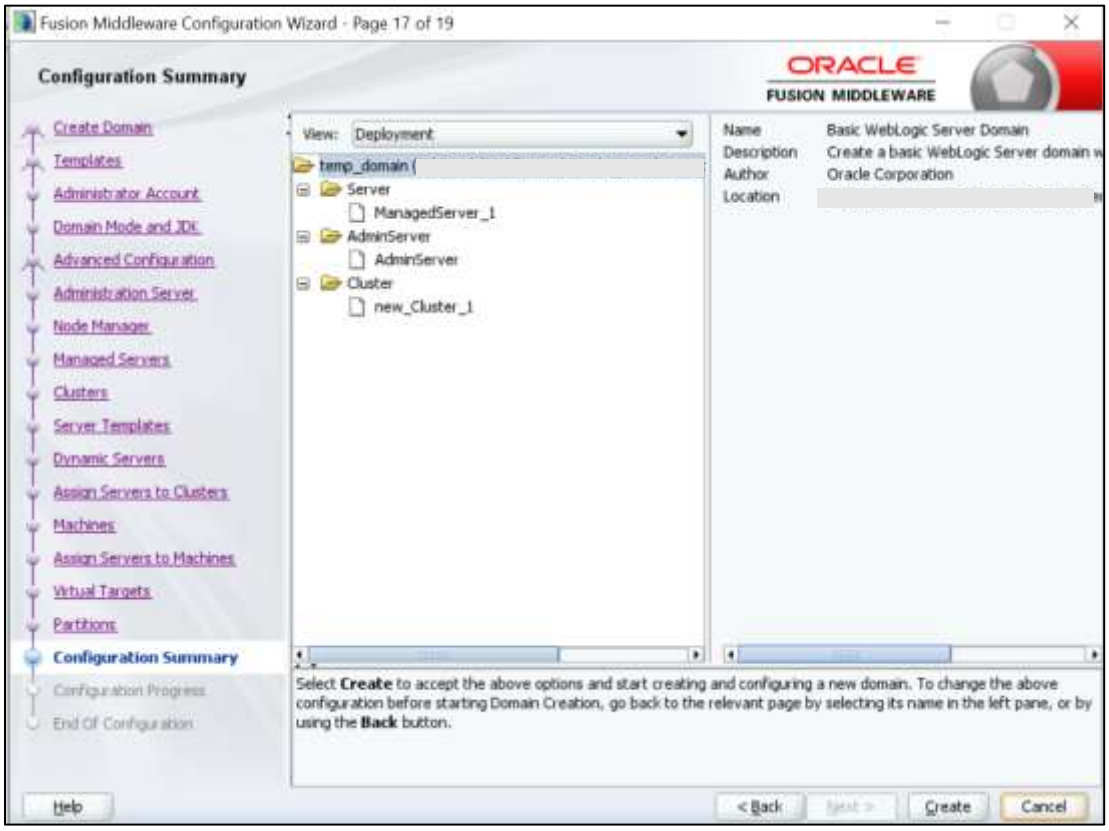
6. On **Machines** screen, add entry for the machine, and click **Next**.



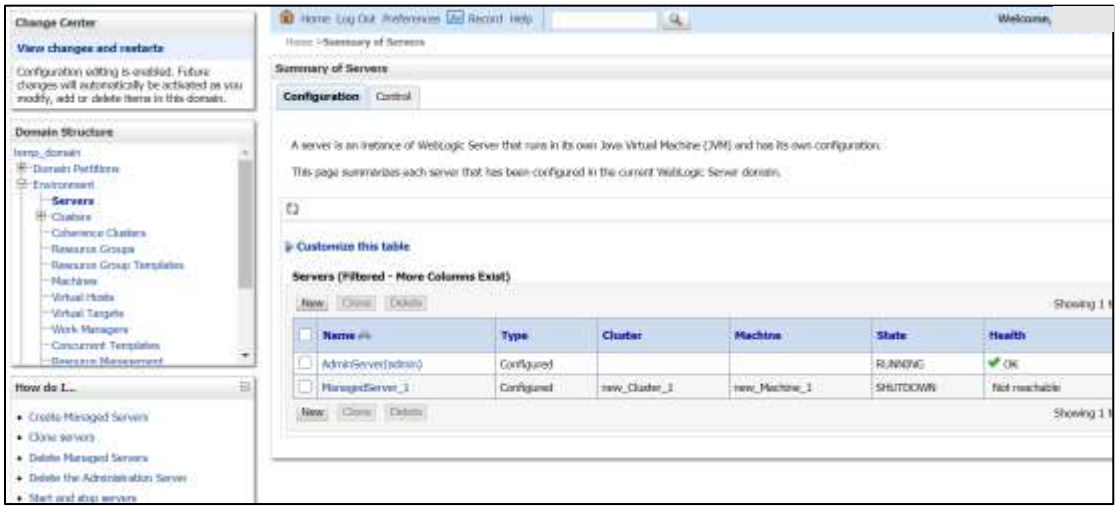
7. On **Assign Server to Machines** screen, assign the required machine, and click **Next**.



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

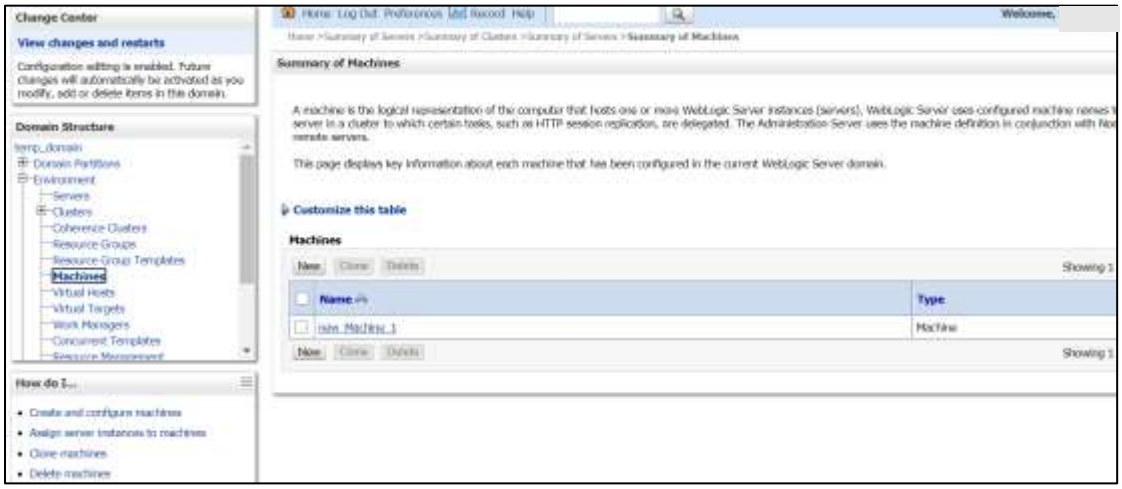


9. Click **Servers** tab, select **Configuration**, and verify the configuration details of server.



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

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

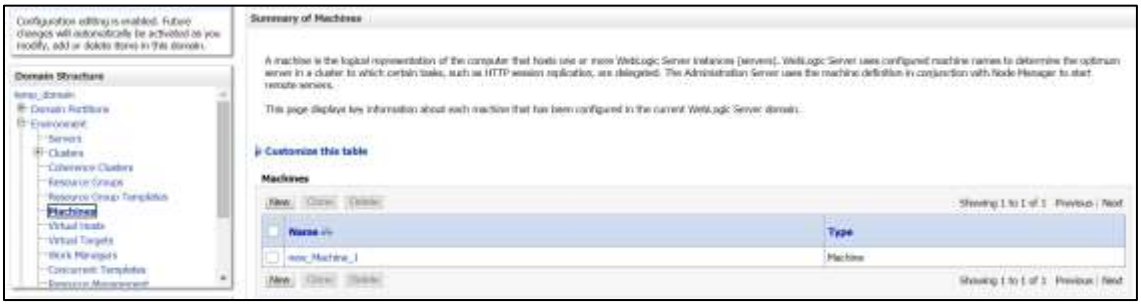


8.3 Post Domain creation configurations

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(securelistner = false if ssl and keystore is not given) And in admin console also navigate to **Machines**- > **sms_Machine** -> **Node Manager** -> **Type** -> **Plain** -> **Save**.
9. Navigate to **/user_projects/domains/ sms _domain/bin**.
10. Run **startNodeManager.cmd** (or **.sh** if operating system is linux).
11. Start all managed servers.

Login to console and verify servers and clusters.



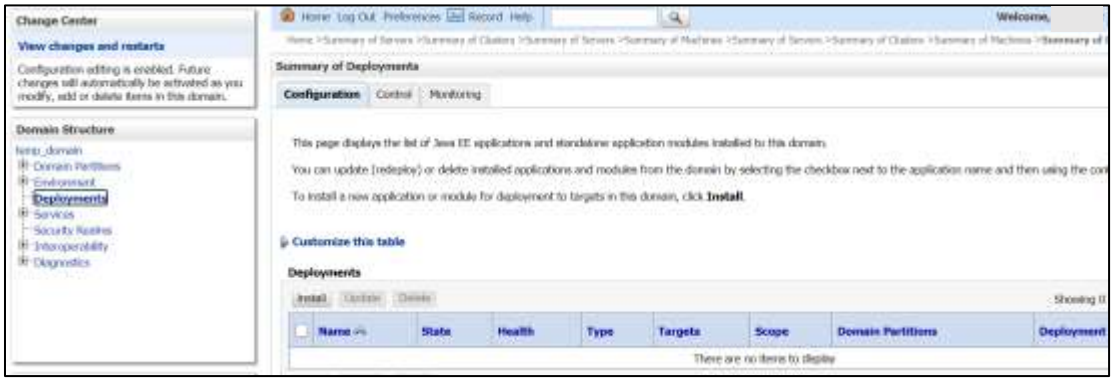
9. Party User Interface Deployments

9.1 Steps to deploy as application

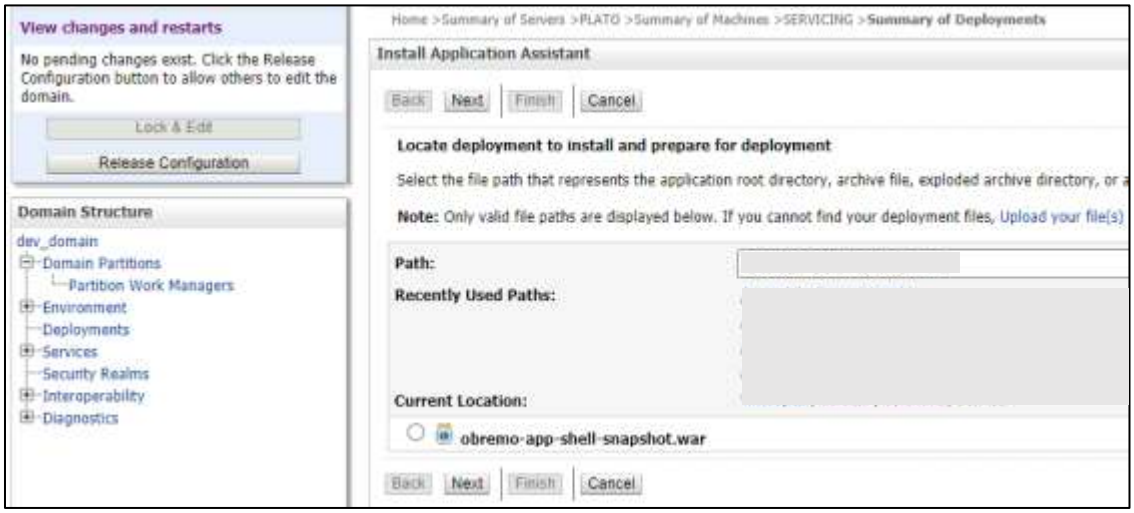
NOTE: Server names, Domain names need not to be same as this doc provides.

Steps to Deploy archives as application on weblogic is same except that managed server and domain where we deploy may differ. In case of foundation app shell, the obpy-component-server.war should be deployed in the same managed server along with the other UI component war. Find the below screenshots to see how deployment of archive as application is done on weblogic:

1. Extract the obpy-component-server.war from the **UI** folder.
2. Open Weblogic console and navigate to the **Deployments**.



3. Click **Install**, select the path and press **Enter** key.



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

5. Keep clicking Next after making any specific choices (if required).

6. Check the option **Yes, take me to the deployment's configuration screen** and click **Finish**.

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

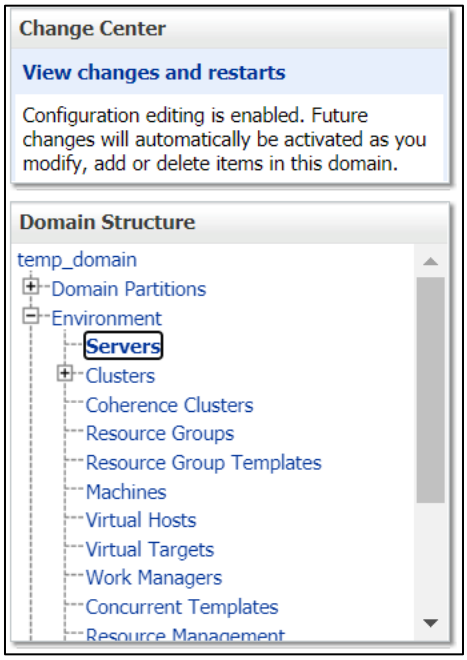
8. Verify state is Active. If yes, open the URL in this format: **http://HostName:PortNo/app-shell/**

10.Restarts and Refresh

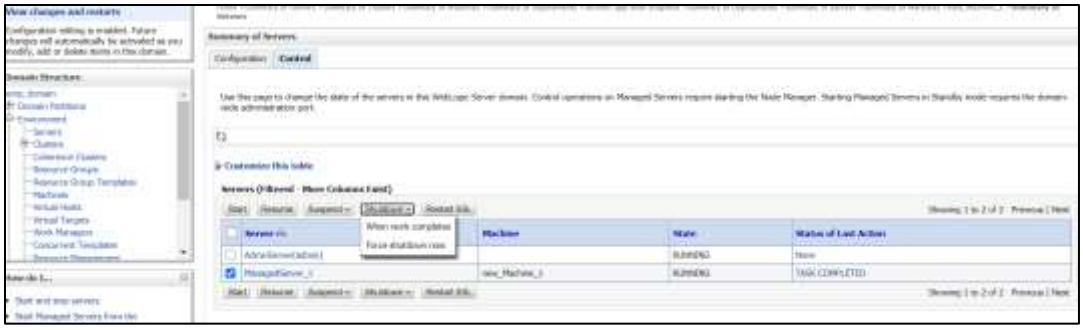
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

10.1 Restarting Servers

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

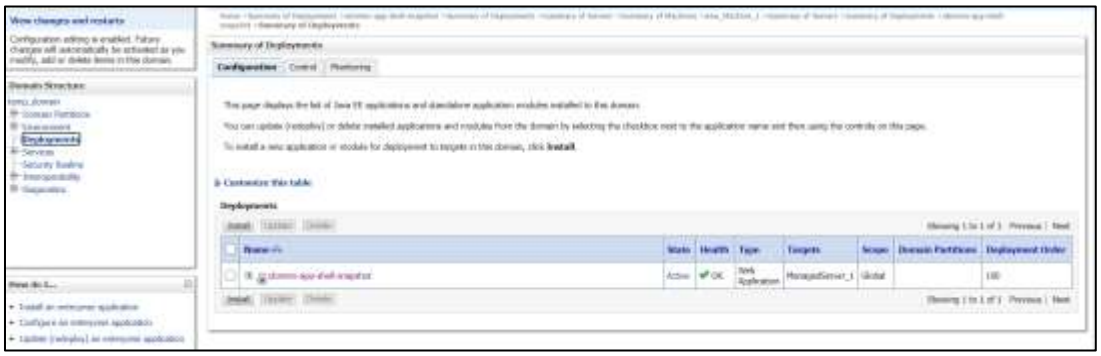


2. Click **Control** tab and select servers to shut down, and click **Yes** to confirm shutdown.



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

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



11.Deployments

11.1 Party Processes

Below are the list of Conductor based processes which have to be deployed for the Retail Operations.

Serial Number	Process Name	Dependent process
1	OBPY-PARTY-ONBOARDING-PROCESSFLOW	None
2	OBPY-PARTY-AMENDMENT-PROCESSFLOW	None
3	OBPY-PARTY-CORP-ONBOARDING-PROCESSFLOW	None
4	OBPY-FINANCIALINSTITUTIONAMENDMENT-PROCESSFLOWS	None
5	OBPY-FINANICALINSTITUIONONBOARDING-PROCESSFLOWS	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.

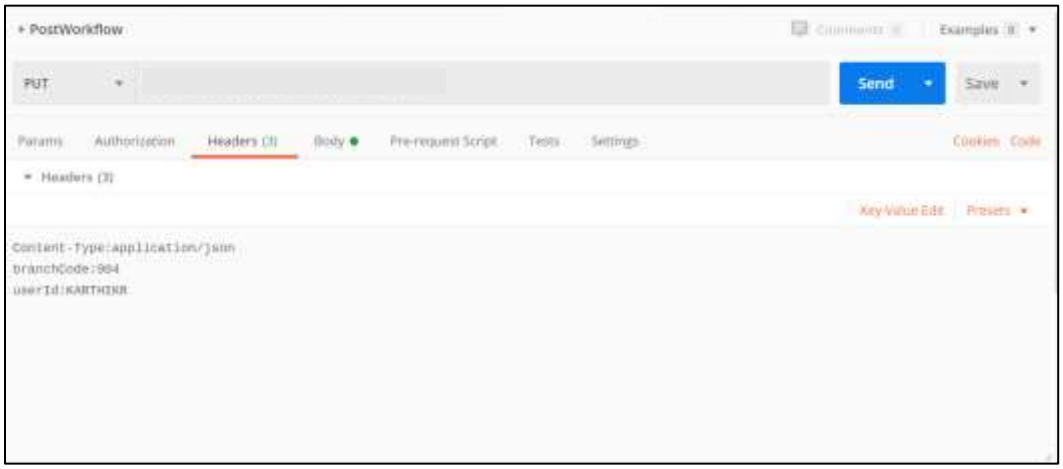
{{PROCESS_SERVER_PORT}} - Port of the Conductor server

11.3 Steps to Deploy Conductor Process

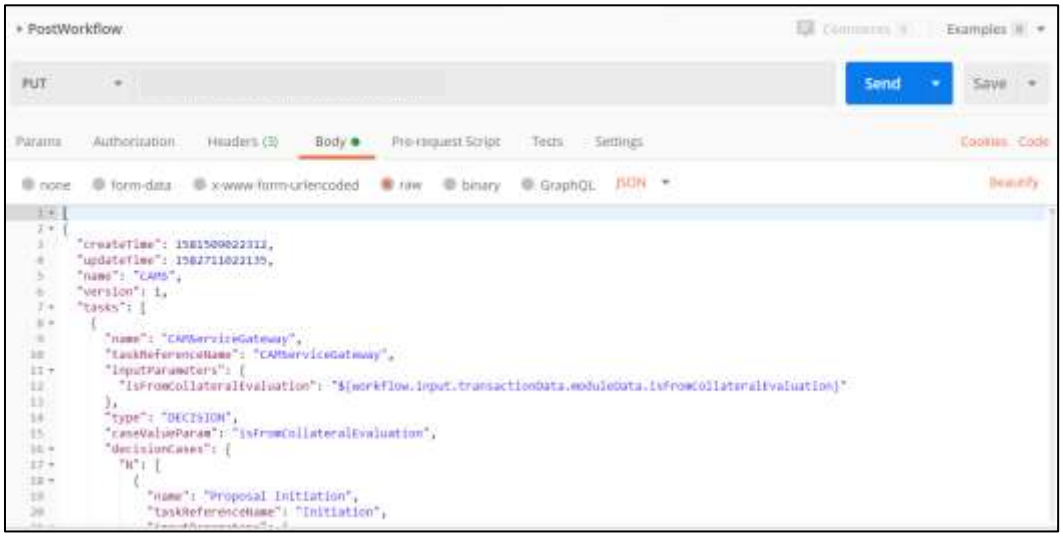
NOTE: Server names, Domain names need not to be same as this doc provides.
Steps to Deploy a process remains the same for all the process files. The screenshot shared below is for sample purpose only

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.

Party Services Installation Guide

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