Party Services Installation Guide

Oracle Banking Branch

Release 14.6.1.0.0

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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 to WebLogic installation, WebLogic managed server creation, and Oracle DB installation.

Note: For the exact version to be installed, refer to Tech Stack section of Release Notes.

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 <u>Documentation Accessibility</u>

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
- 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-party-corporate-view-services
- 10. obpy-party-batch-services

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

The process flow zip file downloaded will contain the below Conductor representative process flow DSL JSON files which need to be imported. Refer to the "Steps to Deploy Conductor Process" section for deploying the DSL.

SNO	Process Flow Name	Description of the Process flow
1	obpy-corporate-onboarding- processflow_CPOB.json	Corporate Onboarding
2	obpy-fi-amendment-processflow_FPAM.json	Financial Institute Amendment
3	obpy-fi-onboarding-processflow_FPOB.json	Financial Institute Onboarding
4	obpy-party-onboarding-processflow_REOB.json	Retail Party Onboarding
5	obpy-retail-amendment-processflow_PAMD.json	Retail Party Amendment
6	obpy_corp_amendment_processflow_CAMD.json	Corporate Party Amendment
7	obpy_smb_amendment_processflow_SMBA.json	Small and Medium Business Party Amendment
8	obpy_smb_onboarding_processflow_RSMB.json	Small and Medium Business Party Onboarding
9	obpy_sme_amendment_processflow_SMEA.json	Small and Medium Enterprise Party Amendment
10	obpy_sme_onboarding_processflow_CSME.json	Small and Medium Enterprise Party Onboarding



1.5 Related documents

For more information, refer to the following documents:

- Oracle Banking Microservices Platform Foundation Installation Guide
- Common Core Services Installation Guide
- Security Management System Services 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 Prerequisites

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

2.3 <u>Database Setup</u>

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-party-corporate-view-services	Yes (obpy-party-service schema)
obpy-party-batch-services	Yes (obpy-party-service schema)



3. Party Services Domains Configuration

3.1 Prerequisites

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

NOTE: Before proceeding with the below steps, complete the procedure in *Oracle Banking Microservices Platform Foundation Installation Guide*. In particular, ensure to deploy the Plato Batch service (*plato_batch_server*) before deploying party services.

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

NOTE: For the exact version to be installed, refer to Tech Stack section of Release Notes.

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.

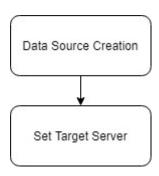
Service Name	Domain Name
obpy-stage-services	Party Domain
obpy-party-services	Party Domain
obpy-party-kyc-services	Party Domain
obpy-businessprocess-services	Party Domain
obpy-party-handoff-services	Party Domain
obpy-party-publisher-services	Party Domain
obpy-party-maintenance-service	Party Domain
obpy-party-adapter-services	Party Domain
obpy-party-corporate-view-services	Party Domain
obpy-party-batch-services	Party Domain



4. Data Sources Creation

4.1 Prerequisites

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



Service Name	Data source Name	Data source JNDI	Targets
obpy-party-corporate- view-services	PARTY	jdbc/PARTY	Party Managed Server
obpy-party-batch- services	PARTY	jdbc/PARTY	Party Managed Server

4.3 Steps to Create Datasource

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

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 is 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
PLATO_BATCH	jdbc/PLATOBATCH	Party Managed Server

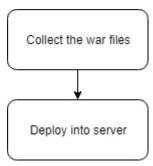
Refer to Oracle Banking Microservices Platform Foundation Installation Guide, Common Core Services Installation Guide, and Security Management System Services Installation Guide for more recent details on data sources.



5. Deployments

5.1 Prerequisites

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**

The below table gives details of the deployments required on each domain for the Party application to run. Deploy one after the other in the same given order. The provided archive names and OSDC path are for reference purposes only. Refer to the exact archive names available as a part of the release.

Before deploying ensure that setUserOverrides.sh all placeholders' values are set correctly. Refer to the Oracle Banking Microservices Platform Foundation Installation Guide for more details. If any placeholder is missed, the deployment will fail, and incorrect values will result from errors in the application.

Application	Archive name	OSDC path	Targets
OBPY Party Maintenance Services	obpy-party- maintenance-service- {version}.war	{unzip the file} \obpy-party-maintenance- service	Party Managed Server
OBPY Stage Services	obpy-stage-services- {version}.war	{unzip the file} \stage-services	Party Managed Server
OBPY Party Services	obpy-party-services- {version}.war	{unzip the file} \obpy-party-services	Party Managed Server
Party KYC Services	obpy-party-kyc-services- {version}.war	{unzip the file} \obpy-party-kyc-services	Party Managed Server
OBPY Businessproce ss Services	obpy-businessprocess- services-{version}.war	{unzip the file} \obpy-businessprocess-services	Party Managed Server



Application	Archive name	OSDC path	Targets
OBPY Party Handoff Services	obpy-party-handoff- services-{version}.war	{unzip the file} \obpy-party-handoff-services	Party Managed Server
OBPY Party Publisher Services	obpy-party-publisher- services-{version}.war	{unzip the file} \obpy-party-publisher-services	Party Managed Server
OBPY Party Adapter Services	obpy-party-adapter- services-{version}.war	{unzip the file} \obpy-party-adapter-services	Party Managed Server
OBPY Corporate View Service	obpy-party-corporate- view-services- {version}.war	{unzip the file} \ obpy-party-corporate-view- services	Party Managed Server
OBPY Party Batch Service	obpy-party-batch- services-{version}.war	{unzip the file} \obpy-party-batch-services	Party Managed Server

5.3 Steps to Deploy as Application

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

NOTE: The obpy-customer-services is a service that needs to be deployed in Oracle FLEXCUBE Universal Banking application. Refer to **Customer Service Installation Guide** in Oracle FLEXCUBE Universal Banking Documentation Library.



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</p>

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, refer to Oracle Banking Microservices Platform Foundation Installation Guide.



8. Party UI Domain and Cluster Configuration

8.1 Prerequisites

- 1. The machine should have Java JDK has installed.
- Oracle Fusion Middleware has to be installed on the machine.
 NOTE: For the exact version to be installed, refer to Tech Stack section of Release Notes.

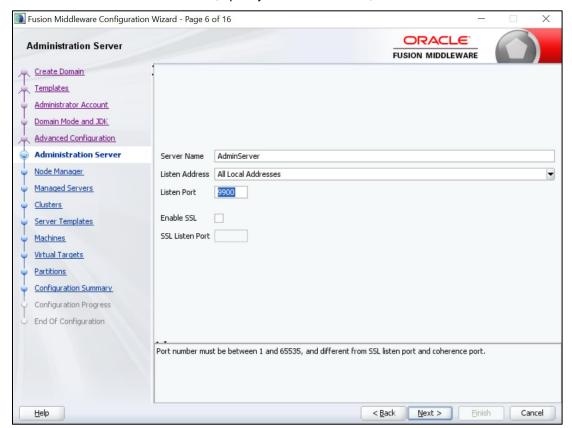
8.2 Party UI Domain

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



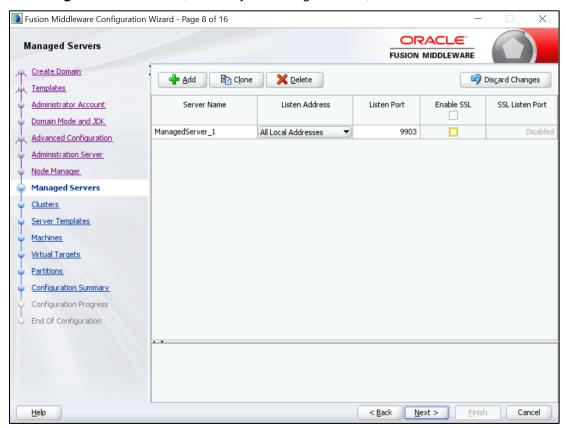


2. On Administration Server screen, specify the server details, and click Next.



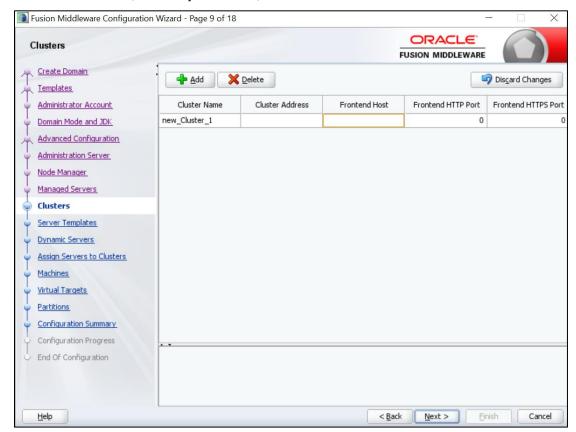


3. On Managed Servers screen, add entry for managed server, and click Next.



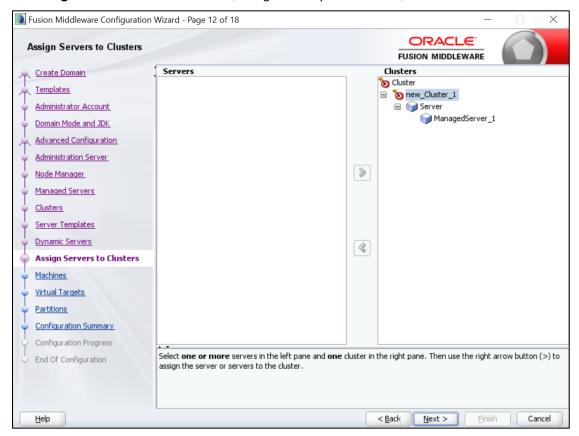


4. On Clusters screen, add entry for cluster, and click Next.



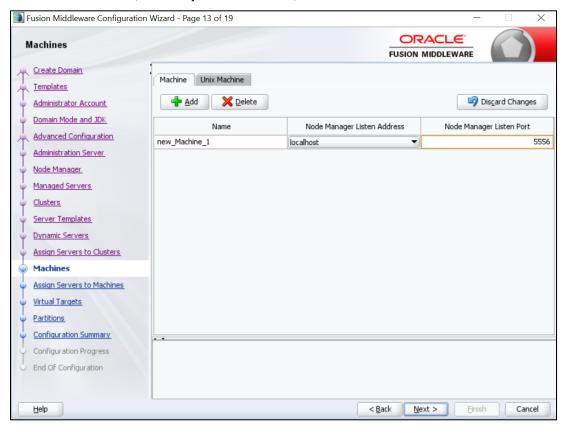


5. On Assign Server to Cluster screen, assign the required servers, and click Next.



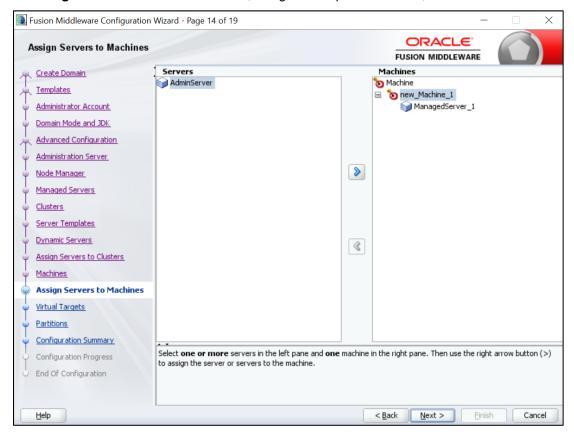


6. On **Machines** screen, add entry for the machine, and click **Next**.



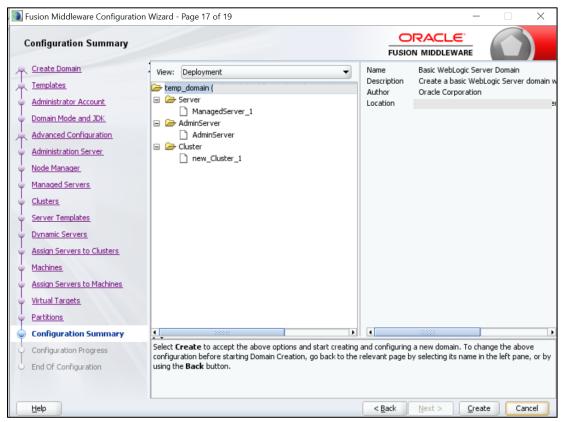


7. On Assign Server to Machines screen, assign the required machine, and click Next.

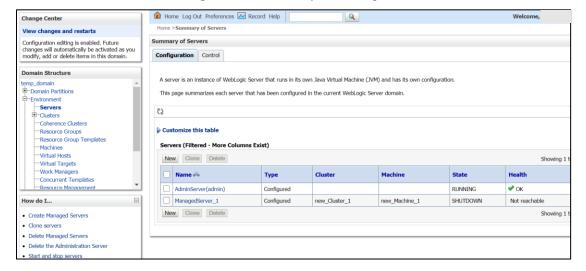




8. On Configuration Summary screen and click Create to configure a new domain.



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

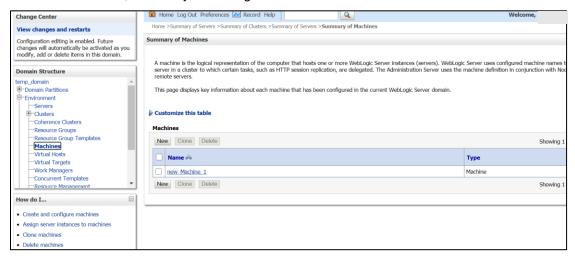




10. Click Clusters tab and verify the configuration details of cluster.



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



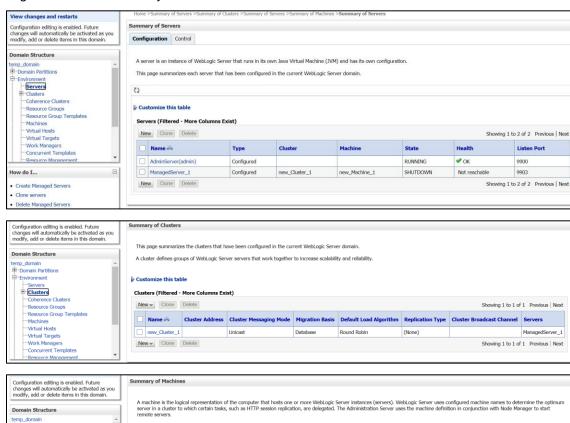
8.3 Post Domain creation configurations

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

- 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.
- 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.

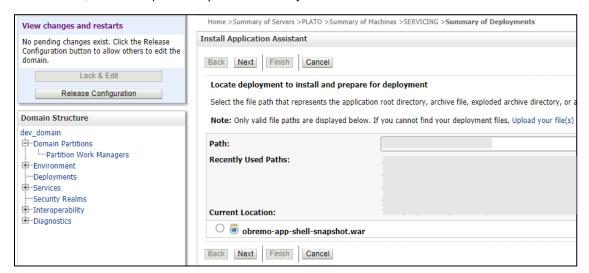
Steps to Deploy archives as application on weblogic is same except that managed server and domain where we deploy may differ. In case of foundation app shell, the obpy-component-server.war should be deployed in the same managed server along with the other UI component war. Find the below screenshots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



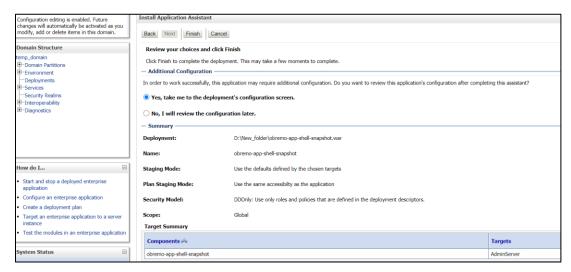
4. Check the option install this deployment as an application option and click Next.



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.



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: https://HostName:PortNo/app-shell/

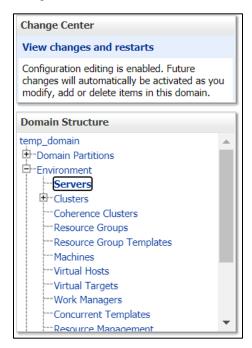


10.Restarts and Refresh

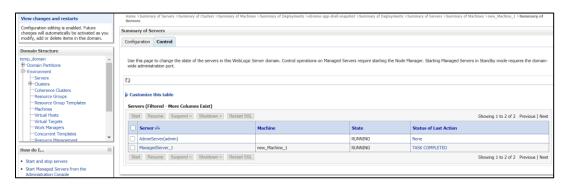
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

10.1 Restarting Servers

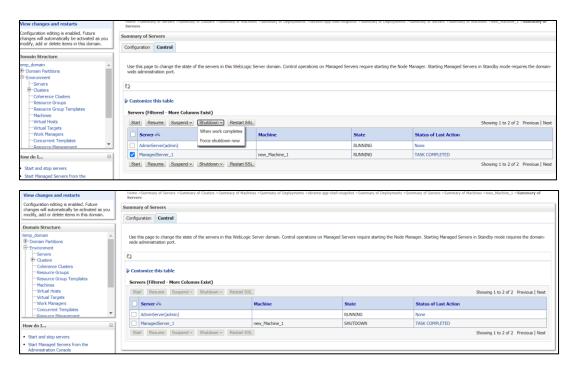
1. Navigate to **Environment** and then click **Servers**.



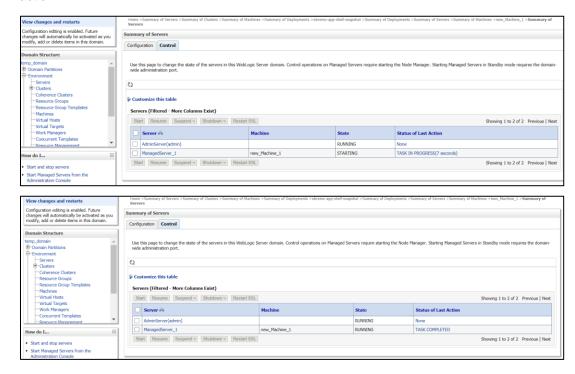
2. Click Control tab and select servers to shut down and click Yes to confirm shutdown.







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

The list of Conductor based processes that have to be deployed for the Party Services are:

Serial Number	Process Name	Dependent process
1	obpy-corporate-onboarding-processflow_CPOB.json	None
2	obpy-fi-amendment-processflow_FPAM.json	None
3	obpy-fi-onboarding-processflow_FPOB.json	None
4	obpy-party-onboarding-processflow_REOB.json	None
5	obpy-retail-amendment-processflow_PAMD.json	None
6	obpy_corp_amendment_processflow_CAMD.json	None
7	obpy_smb_amendment_processflow_SMBA.json	None
8	obpy_smb_onboarding_processflow_RSMB.json	None
9	obpy_sme_amendment_processflow_SMEA.json	None
10	obpy_sme_onboarding_processflow_CSME.json	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}}/plato-orch-service/api/metadata/workflow

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

{{PROCESS_SERVER_PORT}} - Port of the Conductor server

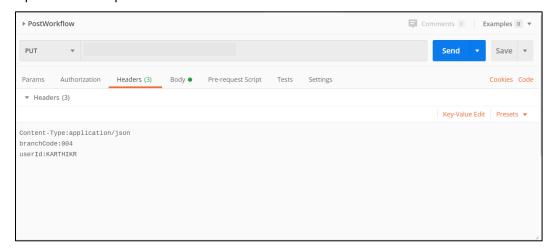
11.3 Steps to Deploy Conductor Process

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

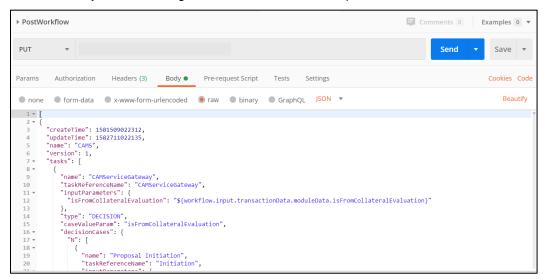
- 1. Launch Postman.
- 2. Create a new Request (if not done already) and select **POST** method. If the process flow is already deployed and if you want to update it, then the method should be "PUT".



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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