

Common Core Services Installation Guide
Oracle Banking Electronic Data Exchange for Corporates
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Common Core Services Installation Guide
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Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax:+91 22 6718 3001

www.oracle.com/financialservices/

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1. Preface

1.1 Introduction

This guide helps you to install the common core services on designated environment. It is assumed that all the prior setup is already done related with 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.

It is recommended to use dedicated managed server for each of the common core services.

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/pls/topic/lookup?ctx=acc&id=docacc>.

1.4 Organization

This installation guide allows you to install following services:

1. CMC-ACCOUNT-SERVICES
2. CMC ADDITIONAL-ATTRIBUTES-SERVICES
3. CMC-ADVICE-SERVICES
4. CMC-BASE-SERVICES
5. CMC-BATCH-SERVICES
6. CMC-BRANCH-SERVICES
7. CMC-BUSINESSOVERRIDES-SERVICES
8. CMC-CHARGES-CALCULATION-SERVICES
9. CMC-COREBANKING-ADAPTER-SERVICE
10. CMC-CURRENCY-SERVICES
11. CMC-CUSTOMER-SERVICES
12. CMC-DATASEGMENT-SERVICES
13. CMC-EXTERNAL-CHART-ACCOUNT
14. CMC-EXTERNAL-SYSTEM-SERVICES
15. CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES
16. CMC-FACILITIES-SERVICE
17. CMC-FC-AI-ML-SERVICES
18. CMC-ML-INDB-SERVICES
19. CMC-NLP-DASHBOARD-WIDGET-SERVICES
20. CMC-NLP- MAINTENANCE-SERVICES
21. CMC-NLP-OPENNLP-SERVICES
22. CMC-NLP-PIPELINE-SERVICES
23. CMC-NLP-TEXT-EXTRACTION-SERVICES
24. CMC-OBCBS-SERVICES
25. CMC-OBRRH-SERVICE
26. CMC-REPORT-SERVICE
27. CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE

28. CMC-SCREENCLASS-SERVICES
29. CMC-SETTLEMENTS-SERVICES
30. CMC-TRANSACTIONCONTROLLER-SERVICES
31. CMC-TXN-CODE-SERVICES
32. CMC-OPDS-SERVICES
33. CMC-TXN-CODE-SERVICESCMC-APPLICATIONCATEGORY-SERVICES
34. CMC-CHECKLIST-SERVICES
35. CMC-CHECKLISTMANAGEMENT-SERVICES
36. CMC-COMMENTS-SERVICES
37. CMC-DOCUMENT-SERVICES
38. CMC-DOCUMENTMANAGEMENT-SERVICES
39. CMC-KYCCHECK-SERVICES
40. CMC-MAILNOTIFICATION-SERVICES
41. CMC-PRIORITY-SERVICES
42. CMC-PROCESSCODE-SERVICE
43. CMC-SEQUENCEGENERATOR-SERVICES
44. CMC-ADDITIONAL-ATTRIBUTES-SERVICES
45. CMC-SLA-SERVICES

1.5 Documents

- Configuration and Deployment Guide

2. Database Setup

2.1 Introduction

In this section you are going to setup database related configuration for Common Core Installation.

2.2 Prerequisite

Below setup is dependent on Common Core Schema and SMS schema. Before you proceed with below setup ensure Common Core Schema and SMS Schema is provided to you.

2.3 Database Setup

To setup DB for Common Core schema to be created:

Service Name	Schema Required
CMC-ACCOUNT-SERVICES	Yes (Common Core Schema)
CMC-ADDITIONAL-ATTRIBUTES-SERVICE	Yes (Common Core Schema)
CMC-ADVICE-SERVICES	Yes (Common Core Schema)
CMC-BASE-SERVICES	Yes (Common Core Schema)
CMC-BATCH-SERVICES	Yes (Common Core Schema)
CMC-BRANCH-SERVICES	Yes (Common Core Schema)
CMC-BUSINESSOVERRIDES-SERVICES	Yes (Common Core Schema)
CMC-CHARGES-CALCULATION-SERVICES	Yes (Common Core Schema)
CMC-COREBANKING-ADAPTER-SERVICE	Yes (Common Core Schema)
CMC-CURRENCY-SERVICES	Yes (Common Core Schema)
CMC-CUSTOMER-SERVICES	Yes (Common Core Schema)
CMC-DATASEGMENT-SERVICES	Yes (Common Core Schema)
CMC-EXTERNAL-CHART-ACCOUNT	Yes (Common Core Schema)
CMC-EXTERNAL-SYSTEM-SERVICES	Yes (Common Core Schema)
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	Yes (Common Core Schema)
CMC-FACILITIES-SERVICE	Yes (Common Core Schema)
CMC-FC-AI-ML-SERVICES	Yes (Common Core Schema)

Service Name	Schema Required
CMC-ML-INDB-SERVICES	Yes (Common Core Schema)
CMC-NLP-DASHBOARD-WIDGET-SERVICES	Yes (Common Core Schema)
CMC-NLP-MAINTENANCE-SERVICES	Yes (Common Core Schema)
CMC-NLP-OPENNLP-SERVICES	Yes (Common Core Schema)
CMC-NLP-PIPELINE-SERVICES	Yes (Common Core Schema)
CMC-NLP-TEXT-EXTRACTION-SERVICES	Yes (Common Core Schema)
CMC-OBCBS-SERVICES	Yes (Common Core Schema)
CMC-OBRH-SERVICE	Yes (Common Core Schema)
CMC-REPORT-SERVICE	Yes (Common Core Schema)
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	Yes (Common Core Schema)
CMC-SCREENCLASS-SERVICES	Yes (Common Core Schema)
CMC-SETTLEMENTS-SERVICES	Yes (Common Core Schema)
CMC-TRANSACTIONCONTROLLER-SERVICES	Yes (Common Core Schema)
CMC-TXN-CODE-SERVICES	Yes (Common Core Schema)
CMC-OPDS-SERVICES	Yes (Common Core Schema)
CMC-APPLICATIONCATEGORY-SERVICES	Yes (Common Core Schema)
CMC-CHECKLIST-SERVICES	Yes (Common Core Schema)
CMC-CHECKLISTMANAGEMENT-SERVICES	Yes (Common Core Schema)
CMC-COMMENTS-SERVICES	Yes (Common Core Schema)
CMC-DOCUMENT-SERVICES	Yes (Common Core Schema)
CMC-DOCUMENTMANAGEMENT-SERVICES	Yes (Common Core Schema)
CMC-KYCCHECK-SERVICES	Yes (Common Core Schema)
CMC-MAILNOTIFICATION-SERVICES	Yes (Common Core Schema)
CMC-PRIORITY-SERVICES	Yes (Common Core Schema)
CMC-PROCESSCODE-SERVICE	Yes (Common Core Schema)
CMC-SEQUENCEGENERATOR-SERVICES	Yes (Common Core Schema)

Service Name	Schema Required
CMC-SLA-SERVICES	Yes (Common Core Schema)

3. Domain and Cluster Configuration

3.1 Common Core Domain Configuration

3.1.1 Prerequisites

1. Machine should have Java JDK 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 Common core 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 **Tech Stack** section of Release Notes.

3.1.2 Steps to Create Domain

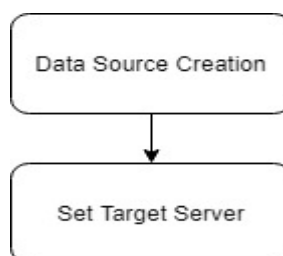
It is recommended to have different managed server in one domain for each application. For Creating Domain and Configuration, refer to **How to create and Cluster Configuration** section in **Configuration and Deployment Guide**.

4. Data Sources Creation

4.1 Prerequisite

Database and application setup for Oracle Banking Microservices Architecture 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 Common Core 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.

Data source Name	Data source JNDI	Targets
PLATO	jdbc/PLATO	Common Core Managed Server
CMNCORE	jdbc/CMNCORE	Common Core Managed Server, API Gateway Server
PLATOBATCH	jdbc/PLATOBATCH	Common Core Managed Server
SMS	jdbc/sms	Common Core Managed Server
PLATOUUI	jdbc/PLATO_UI_CONFIG	Common Core Managed Server
PLATOFEED	jdbc/PLATOFEED	Common Core Managed Server
PLATOSECURITY	jdbc/PLATO_SECURITY	Common Core Managed Server
<PRODUCT PROJECTION SCHEMA> (Required only for DB based ML use cases)	jdbc/<PRODUCT PROJECTION SCHEMA>	Common Core Managed Server

Steps to create data source in WebLogic is same for all the above except for the connection details and names. Check the below screenshots to understand data source creation.

Common Core Services using Plato-Feed

The below listed common core services requires the data source to be created for plato-feeds on each domain prior to deployment of applications onto managed servers.

Service Name	Data Source Name	Data Source JNDI	Target
cmc-account-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server
cmc-base-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server
cmc-branch-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server
cmc-settlement-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server
cmc-currency-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server
cmc-customer-services	PLATOFEEED	jdbc/PLATOFEEED	Common Core Managed Server

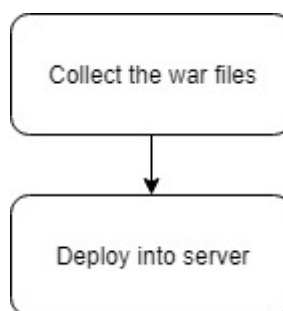
4.3 Creating Data source

For creating data source, refer to **How to create Data sources** section in **Configuration and Deployment Guide**.

5. Deployments

5.1 Prerequisite

The database setup and data sources creation need 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 Common Core service 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 Common Core application to run. Deploy one after other in the same given order.

Application	Archive name	OSDC path	Targets
CMC-ACCOUNT-SERVICES	cmc-account-services-{version}.war	{Unzip OSDC Package}\cmc-account-services	Common Core Managed Server
CMC-ADDITIONAL-ATTRIBUTES-SERVICE	cmc-additional-attributes-services-{version}.war	{Unzip OSDC Package}\cmc-additional-attributes-services	Common Core Managed Server
CMC-ADVICE-SERVICES	cmc-advice-services-{version}.war	{Unzip OSDC Package}\cmc-advice-services	Common Core Managed Server
CMC-BASE-SERVICES	cmc-base-services-{version}.war	{Unzip OSDC Package}\cmc-base-services	Common Core Managed Server
CMC-BATCH-SERVICES	cmc-batch-services-{version}.war	{Unzip OSDC Package}\cmc-batch-services	Common Core Managed Server
CMC-BRANCH-SERVICES	cmc-branch-services-{version}.war	{Unzip OSDC Package}\cmc-branch-services	Common Core Managed Server

Application	Archive name	OSDC path	Targets
CMC-BUSINESSOVERRIDE-SERVICES	cmc-businessoverrides-services-{version}.war	{Unzip OSDC Package}\cmc-businessoverrides-services	Common Core Managed Server
CMC-CHARGES-CALCULATION-SERVICES	cmc-charges-calculation-services-{version}.war	{Unzip OSDC Package}\cmc-charges-calculation-services	Common Core Managed Server
CMC-COREBANKING-ADAPTER-SERVICE	cmc-corebanking-adapter-service-{version}.war	{Unzip OSDC Package}\cmc-corebanking-adapter-service	Common Core Managed Server
CMC-CURRENCY-SERVICES	cmc-currency-services-{version}.war	{Unzip OSDC Package}\cmc-currency-services	Common Core Managed Server
CMC-CUSTOMER-SERVICES	cmc-customer-services-{version}.war	{Unzip OSDC Package}\cmc-customer-services	Common Core Managed Server
CMC-DATASEGMENT-SERVICES	cmc-datasegment-services-{version}.war	{Unzip OSDC Package}\cmc-datasegment-services	Common Core Managed Server
CMC-EXTERNAL-CHART-ACCOUNT	cmc-external-chart-account-{version}.war	{Unzip OSDC Package}\cmc-external-chart-account	Common Core Managed Server
CMC-EXTERNAL-SYSTEM-SERVICES	cmc-external-system-services-{version}.war	{Unzip OSDC Package}\cmc-external-system-services	Common Core Managed Server
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	cmc-external-virtual-account-services-{version}.war	{Unzip OSDC Package}\cmc-external-virtual-account-services	Common Core Managed Server
CMC-FACILITIES-SERVICE	cmc-facilities-service-{version}.war	{Unzip OSDC Package}\cmc-facilities-service	Common Core Managed Server
CMC-FC-AI-ML-SERVICES	cmc-fc-ai-ml-services-{version}.war	{Unzip OSDC Package}\cmc-fc-ai-ml-services	Common Core Managed Server
CMC-ML-INDB-SERVICES	cmc-ml-indb-services-{version}.war	{Unzip OSDC Package}\cmc-ml-indb-services	Common Core Managed Server

Application	Archive name	OSDC path	Targets
CMC-NLP-DASHBOARD-WIDGET-SERVICES	cmc-nlp-dashboard-widget-services-{version}.war	{Unzip OSDC Package}\cmc-nlp-dashboard-widget-services	Common Core Managed Server
CMC-NLP-MAINTENANCE-SERVICES	cmc-nlp-maintenance-services-{version}.war	{Unzip OSDC Package}\cmc-nlp-maintenance-services	Common Core Managed Server
CMC-NLP-OPENNLP-SERVICES	cmc-nlp-opennlp-services-{version}.war	{Unzip OSDC Package}\cmc-nlp-opennlp-services	Common Core Managed Server
CMC-NLP-PIPELINE-SERVICES	cmc-nlp-pipeline-services-{version}.war	{Unzip OSDC Package}\cmc-nlp-pipeline-services	Common Core Managed Server
CMC-NLP-TEXT-EXTRACTION-SERVICES	cmc-nlp-text-extraction-services-{version}.war	{Unzip OSDC Package}\cmc-nlp-text-extraction-services	Common Core Managed Server
CMC-OBCBS-SERVICES	cmc-obcbs-services-{version}.war	{Unzip OSDC Package}\cmc-obcbs-service	Common Core Managed Server
CMC-OBRH-SERVICES	cmc-obrh-services-{version}.war	{Unzip OSDC Package}\cmc-obrh-services	Common Core Managed Server
CMC-REPORT-SERVICE	cmc-report-service-{version}.war	{Unzip OSDC Package}\cmc-report-service	Common Core Managed Server
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	cmc-resource-segment-orchestrator-service-{version}.war	{Unzip OSDC Package}\cmc-resource-segment-orchestrator-service	Common Core Managed Server
CMC-SCREENCLASS-SERVICES	cmc-screenclass-services-{version}.war	{Unzip OSDC Package}\cmc-screenclass-services	Common Core Managed Server
CMC-SETTLEMENTS-SERVICES	cmc-settlements-services-{version}.war	{Unzip OSDC Package}\cmc-settlements-services	Common Core Managed Server
CMC-TRANSACTIONCONTROLLER-SERVICES	cmc-transactioncontroller-services-{version}.war	{Unzip OSDC Package}\cmc-transactioncontroller-services	Common Core Managed Server

Application	Archive name	OSDC path	Targets
CMC-TXN-CODE-SERVICES	cmc-txn-code-services-{version}.war	{Unzip OSDC Package}\cmc-txn-code-services	Common Core Managed Server
CMC-APPLICATIONCATEGORY-SERVICES	cmc-applicationcategory-services-{version}.war	{Unzip OSDC Package}\cmc-applicationcategory-services	Mid-Office Managed Server
CMC-CHECKLIST-SERVICES	cmc-checklist-services-{version}.war	{Unzip OSDC Package}\cmc-checklist-services	Mid-Office Managed Server
CMC-CHECKLISTMANAGEMENT-SERVICES	cmc-checklistmanagement-services-{version}.war	{Unzip OSDC Package}\cmc-checklistmanagement-services	Mid-Office Managed Server
CMC-COMMENTS-SERVICES	cmc-comments-services-{version}.war	{Unzip OSDC Package}\cmc-comments-services	Mid-Office Managed Server
CMC-DOCUMENT-SERVICES	cmc-document-services-{version}.war	{Unzip OSDC Package}\cmc-document-services	Mid-Office Managed Server
CMC-DOCUMENTMANAGEMENT-SERVICES	cmc-documentmanagement-services-{version}.war	{Unzip OSDC Package}\cmc-documentmanagement-services	Mid-Office Managed Server
CMC-KYCCHECK-SERVICES	cmc-kyccheck-services-{version}.war	{Unzip OSDC Package}\cmc-kyccheck-services	Mid-Office Managed Server
CMC-MAILNOTIFICATION-SERVICES	cmc-mailnotification-services-{version}.war	{Unzip OSDC Package}\cmc-mailnotification-services	Mid-Office Managed Server
CMC-PRIORITY-SERVICE	cmc-priority-service-{version}.war	{Unzip OSDC Package}\cmc-priority-service	Mid-Office Managed Server
CMC-PROCESSCODE-SERVICE	cmc-processcode-service-{version}.war	{Unzip OSDC Package}\cmc-processcode-service	Mid-Office Managed Server
CMC-SEQUENCEGENERATOR-SERVICES	cmc-sequencegenerator-services-{version}.war	{Unzip OSDC Package}\cmc-sequencegenerator-services	

Application	Archive name	OSDC path	Targets
CMC-SLA-SERVICES	cmc-sla-services- {version}.war	{Unzip OSDC Package}\cmc-sla-services	
CMC-OPDS-SERVICES	cmc-opds-services- {version}.war	{Unzip OSDC Package}\cmc-opds- services	Common Core Managed Server

Note Refer to OSDC file for the exact version number for each service.

5.3 Steps to Deploy as Application

To deploy application, refer to **How to deploy** section in **Configuration and Deployment Guide**.

5.4 Deprecated Services

Deploy the common core service to clean up the deprecated service-related DB objects from common core / SMS / PLATO schemas.

Application	Archive name	OSDC path	Targets
CMC-SERVICE- DEPRECATION-SVC	cmc-service- deprecation-svc - {version}.war	{Unzip OSDC Package}\cmc-service- deprecation-svc	Common Core Managed Server

Below table give details of the deprecated services in Common Core application and undeploy the services one after other in the same given order as given below.

Application	Archive name	Targets
CMC-EARMARK-SERVICES	cmc-earmark-services- {version}.war	Common Core Managed Server
CMC-QUEUE-SERVICES	cmc-queue-services- {version}.war	Common Core Managed Server
CMC-SERVICE- DEPRECATION-SVC	cmc-service-deprecation- svc- {version}.war	Common Core Managed Server

Note: Refer to OSDC file for the exact version number for each service.

5.5 Steps to undeploy the deprecated application

To undeploy the deprecated applications, please refer **Configuration and Deployment Guide**. “**How to undeploy Application**” section.

6. Document Verification Framework

6.1 Introduction

This section describes the document verification framework where after deployment of Common Core Applications in the WebLogic server.

6.2 Prerequisite

For running document verification APIs, OML4Py, python, tesseract, and other required libraries must be installed.

6.2.1 OML4Py Installation

Oracle Machine Learning for Python (OML4Py) enables you to run Python commands for data transformations and for statistical, machine learning, and graphical analysis on data stored in or accessible through an Oracle database using a Python API.

OML4Py is available in the following Oracle database environments:

- The Python interpreter in Oracle Machine Learning Notebooks in your Oracle Autonomous Database.
- An OML4Py client connection to OML4Py in an on premise Oracle Database instance.

We have setup OML4Py using on premise Oracle Database. For which, you must install Python, the required Python libraries, and the OML4Py server components in the database, and you must install the OML4Py client as mentioned in below steps.

1. First check the system requirements to setup OML4Py.

OML4Py On Premises System Requirements

2. Python 3.9.5 is required to install and use OML4Py.

Steps to install Python for OML4Py

3. Both the OML4Py server and client installations for an on-premises Oracle database require installing a set of supporting Python packages.

Steps to install Python supporting packages for OML4Py

4. Follow the steps mentioned in the below link for installing and setting up OML4PY server and OML4PY client for on premise oracle database respectively.

Steps to install and setup OML4Py server

Steps to install and setup OML4Py client

Please note that, installing and setting up OML4Py server is optional for customers. Customers can only install OML4Py client, and the Python version supported by OML4PY.

6.2.2 Tesseract installation

Tesseract is an optical character recognition (OCR) engine for various operating systems. The latest version (5.1.0) must be installed on the machine to extract the text from the documents.

For more information on the steps to manually install the latest version of the tesseract (5.1.0). Please refer to **Section 10.4** in **Oracle Banking Microservices Platform Foundation Installation Guide**.

6.3 Document Verification Application Installation

The app will be shipped as a byte-coded whl file. This wheel file will install all the implementation files without the dependencies. All the required dependencies are bundled together in a python.zip file which are to be extracted and installed separately (refer to Step 2 below). It's recommended to install the whl file and the dependencies in a virtual environment using "pip" so that it doesn't affect any other operations or applications running in the system.

Applications using microservices based architecture and using the same for security, needs to create a **Config.ini** file, same is required for the Eureka server configuration. Please create a config file with the name Config.ini and paste the text below:

```
[DEFAULT]

eureka_server=http://whf00itb.in.oracle.com:7002/plato-discovery-service/eureka
```

You can edit the eureka server address if needed. The app name should not be changed. This is important for Role-Based Access Control. Please note that registering the app on Eureka is optional and you can skip this if not needed. But in any case, Config.ini is required. In eureka_server variable you can simply give localhost url.

The folder structure to be followed is:

```
|—root_dir
    |— python
    |— Config.ini
```

Note: Please make sure that you are using linux operating system and the installed Python version is 3.9.5 and that of pip is above 20.0.0. Run the following command to upgrade pip to the latest version.

```
pip install --upgrade pip
```

Once the pip is upgraded, follow the steps below to install the app and the dependencies:

1. Use the below command to install the application wheel package provided, e.g. ofss_ml_document_verification_server_without_req-8.2.0-py3-none-any.whl

```
pip install <wheel_package_name>.whl
```

2. Now all the dependencies need to be installed. In order to do this, extract the python.zip file provided, go into the python folder (cd python/) and run the following commands:

```

pip install configparser --no-index --find-links.

pip install connexion --no-index --find-links.

pip install datefinder --no-index --find-links.

pip install dateparser --no-index --find-links.

pip install Flask --no-index --find-links.

pip install importlib-metadata --no-index --find-links.

pip install opencv-python --no-index --find-links.

pip install pdf2image --no-index --find-links.

```

Note:

Few dependencies including numpy, pandas and scikit-learn that are already installed during OML4Py setup are skipped in above step.

This application works when above libraries are installed with required versions. Please don't upgrade the libraries unless instructed in the documentation.

Installing py-eureka-client is optional as it is needed only if you want to register the app on Eureka.

3. After installing the wheel package and the dependencies, we can run the document verification server using the below-mentioned command,

```
python -m ofss_ml_document_verification_server
```

4. Please note: This will by default run the app on port 8090 and not register the app to Eureka. To do that please use the below-mentioned command:

```
python -m ofss_ml_document_verification_server -p 5000 -r true
```

The above commands make the app run on port 5000 and registers to the Eureka server as well. These arguments may or may not be used together and the port number can be any. By default, the system has been configured to -r false.

Please note that once the service is registered on Eureka, it will need role-based access to send and receive requests.

For example: if the app is registered on <http://whf00itb.in.oracle.com:7002/plato-discovery-service>, then we need a bearer token from <http://whf00itb.in.oracle.com:7002/api-gateway/platojwtauth> and then call http://whf00itb.in.oracle.com:7002/api-gateway/ofss_ml_document_verification_server/extractInformation with the following headers:

1. Authorization - bearer <token>
2. appid- (ex- CMNCORE)

Please note that the userId and branchCode will be based on the flyway script entries.

SMS Scripts:

```

Insert into SMS_TM_SERVICE_ACTIVITY
(SERVICE_ACTIVITY_CODE,DESCRIPTION,CLASS_NAME,METHOD_NAME,APPLIC
ATION_ID,SERVICE_TYPE,UI_ACTIVITY_CODE) values
('CMC_SA_OFSS_ML_DOCUMENT_VERIFICATION_EXTRACT_INFORMATION','Ext
racts meaningful details from an
image','OFSS_ML_DOCUMENT_VERIFICATION_SERVER','extractInformatio
n','CMC','Service API',null);

```

```

commit;

```

```

Insert into SMS_TM_FUNCTIONAL_ACTIVITY
(FUNCTIONAL_ACTIVITY_CODE, APPLICATION_ID, TYPE) values
('CMC_FA_OFSS_ML_DOCUMENT_VERIFICATION_EXTRACT_INFORMATION','CMC
','O');

```

```

commit;

```

```

Insert into SMS_TM_FUNC_ACTIVITY_DETAIL
(ID,FUNCTIONAL_ACTIVITY_CODE,SERVICE_ACTIVITY_CODE) values
('CMC_FD_OFSS_ML_DOCUMENT_VERIFICATION_EXTRACT_INFORMATION','CMC
_FA_OFSS_ML_DOCUMENT_VERIFICATION_EXTRACT_INFORMATION','CMC_SA_O
FSS_ML_DOCUMENT_VERIFICATION_EXTRACT_INFORMATION');

```

```

commit;

```

Plato Scripts:

```

Insert into PROPERTIES (ID,APPLICATION,PROFILE,LABEL,KEY,VALUE)
values (PROPERTIES_ID_SEQ.NEXTVAL,'plato-api-
gateway','jdbc','jdbc','zuul.routes.ofssmldoc.path','/ofss_ml_do
cument_verification_server/**');

Insert into PROPERTIES (ID,APPLICATION,PROFILE,LABEL,KEY,VALUE)
values (PROPERTIES_ID_SEQ.NEXTVAL,'plato-api-
gateway','jdbc','jdbc','zuul.routes.ofssmldoc.serviceId','ofss_m
l_document_verification_server');

Insert into PROPERTIES (ID,APPLICATION,PROFILE,LABEL,KEY,VALUE)
values (PROPERTIES_ID_SEQ.NEXTVAL,'plato-api-
gateway','jdbc','jdbc','zuul.routes.ofssmldoc.stripPrefix','fals
e');

commit;

```

This procedure makes sure that only authenticated users can use the API.

However, developers running the app have an option to disable registry on Eureka and test the API normally.

5. To run the document verification server in the background, use the command below.

```

nohup python -m ofss_ml_document_verification_server & tail -f
nohup.out

```

Note: After the execution of the above command, all the execution logs will be added to nohup.out (text file). Now you may close the terminal and the app will still be running on port.

6. To terminate/kill the app, we can use the netstat command to find the process_id using the port on which the app is running and then use the kill command with the process_id of the app as shown below to terminate the application.

```

netstat -nlp | grep 8090
kill -9 <process_id>

```

7. Restarts and Refresh

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

7.1 Restarting Servers

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

8. Logging Area

8.1 Introduction

This part of the document will talk about the logs area where after deployment of Common Core Applications in WebLogic server.

8.1.1 Logging Area

Common Core Application writes logs in the below area of the server:

```
<WEBLOGIC_DOMAIN_CONFIG_AREA>/servers/CMNCOREAPP/logs/ CMNCOREAPP.out
```

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

```
/scratch/oracle/middleware/user_projects/domains/CommonCore_domain. Logging area for  
Common core would be /scratch/oracle/middleware/user_projects/domains/  
CommonCore_domain/servers/CMNCOREAPP/logs/CMNCOREAPP.out
```


9. Known Issues - Resolutions

9.1 cmc-ml-indb-services

Troubleshooting deployment failure in cmc-ml-indb-services.war –

Deployment Error –

1. org.flywaydb.core.api.FlywayException: Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database : 589007451 -> Resolved locally : -692687536 :org.flywaydb.core.api.FlywayException:Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database : 589007451 -> Resolved locally : -692687536
2. org.flywaydb.core.api.FlywayException: Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database : -692687536-> Resolved locally : 589007451:org.flywaydb.core.api.FlywayException:Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database : -> -692687536 Resolved locally : 589007451

Resolution –

1. Error 1 should get resolved after applying the war from latest patchset.
2. Error 2 will result in case there have been manual modifications made in table “flyway_schema_history” i.e. checksum of script/file V101_32_5.0.0_4_101032004_1_1__CMC_TM_ML_ALGO_REPO.sql has been manually changed/updated to -692687536 in flyway table. If so please delete all the entries in “flyway_schema_history” for script V101_32_5.0.0_4_101032004_1_1__CMC_TM_ML_ALGO_REPO.sql then redeploy/re-run the latest cmc-ml-indb-services.war.

9.2 cmc-branch-service

Troubleshooting steps for failed cmc-branch-service-6.0.0:

For branch service the following steps will need to be executed for deploying the service over March patchset:

1. Run the following scripts on the SMS schema:

```
delete from "flyway_schema_history" where "version" in
('101.4.5.11.0.1.00051001006.10.1');
```

```
delete from SMS_TM_FUNC_ACTIVITY_DETAIL where ID in
('CMC_FA_BRANCH_WORKHR_GETALL','CMC_BRANCH_WORKHR_GETID','CMC_BRA
NCH_WORKHR_SAVE','CMC_FA_BRANCH_TIME_GETALL','CMC_BRANCH_WORKHR_
AUTHQRY','CMC_BRANCH_WORKHR_AUTH','CMC_BRANCH_WORKHR_CLOSERECRD
','CMC_BRANCH_WORKHR_DELETE','CMC_BRANCH_WORKHR_GETHISTRY',
'CMC_BRANCH_WORKHR_MODRECRD','CMC_BRANCH_WORKHR_ROPNRECRD');
```

```
commit;
```

2. Start the `cmc-branch-service-6.0.0` application in Weblogic.