# Oracle® Banking Collections

## Installation Guide

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Oracle Banking Collections Installation Guide, Release 14.7.5.0.0

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# Contents

# Preface

This guide helps to install the Oracle Banking Collections services on designated environment.

This guide facilitates you to install the following services in the specified sequence:

1. OBCR-ACTION-SERVICES
2. OBCR-ACTIVITY-SERVICES
3. OBCR-COMMON-SERVICES
4. OBCR-CORRESPONDENCE-SERVICES
5. OBCR-ENTITY-SERVICES
6. OBCR-NOTES-SERVICES
7. OBCR-PTP-SERVICES
8. OBCR-SEGMENTATION-SERVICES
9. OBCR-SEGMENT-MAINT-SERVICES
10. OBCR-STRATEGY-MAINT-SERVICES
11. OBCR-STRATEGY-SERVICES
12. OBCR-TASK-MAINT-SERVICES
13. OBCR-TASK-SERVICES
14. OBCR-USER-MANAGEMENT-SERVICES
15. OBCR-DASHBOARD-SERVICES
16. OBCR-FEES-CHARGES-SERVICES

> **Note:**
>
> For the exact version to be installed, see section **System Requirements and Technology Stack** of *Oracle Banking Collections Release Notes.*

**User Interface**

Follow the below steps to migrate from existing app-shell build to Foundation app-shell. The 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 app-shell and components server, deploy the war files mentioned below:

- app-shell
- cmc-component-server
- moc-component-server

- sms-component-server

For Domain Specific component server, deploy the following war file:

- obcr-component-server



# Purpose

This guide helps to install the Oracle Banking Collections services on designated environment. This guide helps the user to perform the initial setup for Oracle Banking Collections application. The procedures given in this document must be completed to run the application successfully.

# Audience

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

# 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.

**Access to Oracle Support**

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

# Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

# Related Resources

For more information, see these related Oracle resources:

- *Oracle Banking Collections Initial Setup Guide*
- *Oracle Banking Collections Pre-Installation Guide*

# Conventions

The following text conventions are used in this document:

| Convention | Meaning |
|---|---|
| **boldface** | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| *italic* | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| `monospace` | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

# Screenshot Disclaimer

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

# Acronyms and Abbreviations

The list of the acronyms and abbreviations that are used in this guide are as follows:

**Table 1 Acronyms and Abbreviations**

| Abbreviation | Description |
|---|---|
| DDA | Demand Deposit Accounts |
| ECA | External Credit Approval |
| EOD | End of Day |
| IBAN | International Bank Account Number |

# Basic Actions

The basic actions performed in the screens are as follows:

**Table 2 Basic Actions**

| Actions | Description |
|---|---|
| **New** | Click **New** to add a new record. The system displays a new record to specify the required data. The fields marked with asterisk are mandatory.<br>• This button is displayed only for the records that are already created. |
| **Save** | Click **Save** to save the details entered or selected in the screen. |
| **Unlock** | Click **Unlock** to update the details of an existing record. The system displays an existing record in editable mode.<br>• This button is displayed only for the records that are already created. |
| **Authorize** | Click **Authorize** to authorize the record created. A maker of the screen is not allowed to authorize the same. Only a checker can authorize a record.<br>• This button is displayed only for the already created records. For more information on the process, refer Authorization Process. |
| **Approve** | Click **Approve** to approve the initiated record.<br>• This button is displayed once the user click **Authorize**. |
| **Audit** | Click **Audit** to view the maker details, checker details of the particular record.<br>• This button is displayed only for the records that are already created. |
| **Close** | Click **Close** to close a record. This action is available only when a record is created. |
| **Confirm** | Click **Confirm** to confirm the action performed. |
| **Cancel** | Click **Cancel** to cancel the action performed. |
| **Compare** | Click **Compare** to view the comparison through the field values of old record and the current record.<br>• This button is displayed in the widget once the user click **Authorize**. |
| **View** | Click **View** to view the details in a particular modification stage.<br>• This button is displayed in the widget once the user click **Authorize.** |
| **View Difference only** | Click **View Difference only** to view a comparison through the field element values of old record and the current record, which has undergone changes.<br>• This button is displayed once the user click **Compare**. |
| **Expand All** | Click **Expand All** to expand and view all the details in the sections.<br>• This button is displayed once the user click **Compare**. |
| **Collapse All** | Click **Collapse All** to hide the details in the sections.<br>• This button is displayed once the user click **Compare**. |
| **OK** | Click **OK** to confirm the details in the screen. |

# Symbols and Icons

This guide has the following list of symbols and icons.

**Table 3 Symbols and Icons - Common**

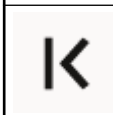
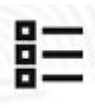
| Symbol/Icon | Function |
|---|---|
|  | Minimize |
|  | Maximize |
|  | Close |
|  | Perform Search |
|  | Open a list |
|  | Add a new record |
|  | Navigate to the first record |
|  | Navigate to the last record |
|  | Navigate to the previous record |
|  | Navigate to the next record |
|  | Grid view |
|  | List view |
|  | Refresh |
|  | Click this icon to add a new row. |

**Table 3 (Cont.) Symbols and Icons - Common**

| Symbol/Icon | Function |
|---|---|
|  | Click this icon to delete a row, which is already added. |
|  | Calendar |
|  | Alerts |

**Table 4 Symbols and Icons – Audit Details**

| Symbol/Icon | Function |
|---|---|
|  | A user |
|  | Date and time |
|  | Unauthorized or Closed status |
|  | Authorized or Open status |
|  | Rejected status |

**Table 5 Symbols and Icons - Widget**

| Symbol/Icon | Function |
|---|---|
|  | Open status |
|  | Unauthorized status |
|  | Closed status |

**Table 5 (Cont.) Symbols and Icons - Widget**

| Symbol/Icon | Function |
|---|---|
|  | Authorized status |
|  | Rejected status |
|  | Modification Number |

1

# Database Setup

This topic describes the database setup for Oracle Banking Collections installation.

It is recommended to create a different schema for each application. The below setup is designed to work with the separate schema for each application.

**Prerequisites**

Before proceeding with the below setup, make sure that the required schemas are provided.

# 2
# Product Installation Using Installer

This topic describes the information for Oracle Banking Collections installation using Installer.

**Prerequisites**

Before proceeding with the installation setup, make sure that the database installation is completed and the required schemas are created.

**Installer Path**

You can download the installer from Oracle Software Delivery Cloud (OSDC). The following table provides the download path of the installer.

**Table 2-1 Installer Path**

| Application | Archive Name | OSDC Path |
|---|---|---|
| OBMA Installer | obma.zip | INSTALLER/ |
| OBCR Installer | obcr.zip | INSTALLER/ |

> **Note:**
>
> To install OBMA foundation using Installer, refer to *Oracle Banking Microservices Architecture Installer Guide.* To install Oracle Banking Collections product using Installer, refer to the below steps.

- Product Setup

## 2.1 Product Setup

Please perform the steps mentioned in chapter **Download and Setup Installer** of *Oracle Banking Microservices Architecture Installer Guide.* Post completion of Download and Setup Installer tasks for VM identified for Product Setup, perform the below mentioned configurations.

This topic consists of following sections:

- Update Properties File
- Update Roles File
- Execute Installer Script

### 2.1.1 Update Properties File

**To update properties file:**

1. Navigate to the path `/scratch/obma_installer/chef-repo/`.

2. Open the respective product properties file. Here, we will update `obcr_properties.rb` with details as explained in further steps.
3. Update the local user and its group.

**Figure 2-1 Update Local User and Group**

```
#Standard Values
INSTALL_USER =  "obedmqa"
INSTALL_GROUP =  "dba"
USER_ROOT = "root"
GROUP_ROOT = "root"
INSTALL_BASE_DIR =  "/scratch"
EXTRACT_LOC = "/scratch/extract"
```

4. Verify the version of java, update if required, and ensure the same version is available in the software's directory.

**Figure 2-2 Verify Java Version**

```
#Java Installation Details
JAVA_INSTALLER_SOURCE =  "filesystem"
JAVA_INSTALLER_PATH =  "/java/"
JAVA_INSTALLATION_DIR =  INSTALL_BASE_DIR + "/obma"
JAVA_VERSION =  "11.0"
JDK_INSTALLER_VERSION =  "jdk-11.0.16"
JDK_INSTALLER_FILE = "jdk-11.0.16_linux-x64_bin.tar.gz"
CERTS_DIRNAME = INSTALL_BASE_DIR + "/ssl/cacerts"
```

5. Verify the version of weblogic server, update if required, and ensure the same version is available in the software's directory.

**Figure 2-3 Verify Weblogic Server Version**

```
#Weblogic Infra Installation Details
ORACLE_INVENTORY =  "/scratch/app/oraInventory"
WLS_VERSION =  "14.1.1"
WLS_INSTALLER_SOURCE =  "filesystem"
WLS_INSTALLER_PATH =  "/wls/"
WLS_PACKAGE_BASENAME = "fmw_14.1.1.0.0_wls.jar"
WLS_INSTALLER_FILE = "fmw_14.1.1.0.0_wls_Disk1_1of1.zip"
WLS_INSTALL_DIR = INSTALL_BASE_DIR + "/obma/fmw"
WLS_INSTALLER_TYPE  = 'Complete with Examples'
```

6. Update the OBMA Foundation hostname and verify various ports, and update if required.

**Figure 2-4 Update OBMA Foundation Host Name and Verify Ports**

```
#Product specific parameters
PROTOCOL = "https"
PLATO_HOST = "ofss-mum-2057.snbomprshared1.gbucdsint02bom.oraclevcn.com"
PLATO_CONFIG_PORT = "8002"
DISCOVERY_PORT = "8004"
API_GATEWAY_PORT = "8006"
SMS_PORT = "8026"
```

7. For Oracle Banking Collections, the default servers and their ports are already defined. Any new addition of server or datasource details needs to be appended here under “OBCR Flyway Placeholder Details”.

> **Note:**
>
> Snapshot of Oracle Banking Collections Configuration Details is given for reference.

**Figure 2-5 Flyway Placeholder**

```
#---------------------------------
# OBCR FLYWAY PLACEHOLDER DETAILS
#---------------------------------

# OBCR Server Ports Details
OBCR1_MAN_SERVER_LISTEN_PORT = "8501"
OBCR1_MAN_SERVER_SSL_PORT = "8502"
OBCR2_MAN_SERVER_LISTEN_PORT = "8503"
OBCR2_MAN_SERVER_SSL_PORT = "8504"

#OBCR CR_ACTIVITY Datasource Details
CR_ACTIVITY_SCHEMA = "CR_ACTIVITY"
CR_ACTIVITY_JNDI = "jdbc/CR_ACTIVITY"
CR_ACTIVITY_DS_TARGET = "obcr_cluster1,obcr_cluster2"

#OBCR CR_ACTION Datasource Details
CR_ACTION_SCHEMA = "CR_ACTION"
CR_ACTION_JNDI = "jdbc/CR_ACTION"
CR_ACTION_DS_TARGET = "obcr_cluster1"

#OBCR CR_CMN Datasource Details
CR_CMN_SCHEMA = "CR_CMN"
CR_CMN_JNDI = "jdbc/CR_CMN"
CR_CMN_DS_TARGET = "obcr_cluster1"

#OBCR CR_ENTITY Datasource Details
CR_ENTITY_SCHEMA = "CR_ENTITY"
CR_ENTITY_JNDI = "jdbc/CR_ENTITY"
CR_ENTITY_DS_TARGET = "obcr_cluster1"
```

> **Note:**
>
> The password for all the default schema's is "wlcome1". In case, there is change in the password for the schemas, user needs to update the same in databag. For more information, see section Password Update in Databag of *Oracle Banking Microservices Architecture Installer Guide.*

8. Update the database details under “#Database details for weblogic datasource configuration”.

**Figure 2-6 Update Database Details**

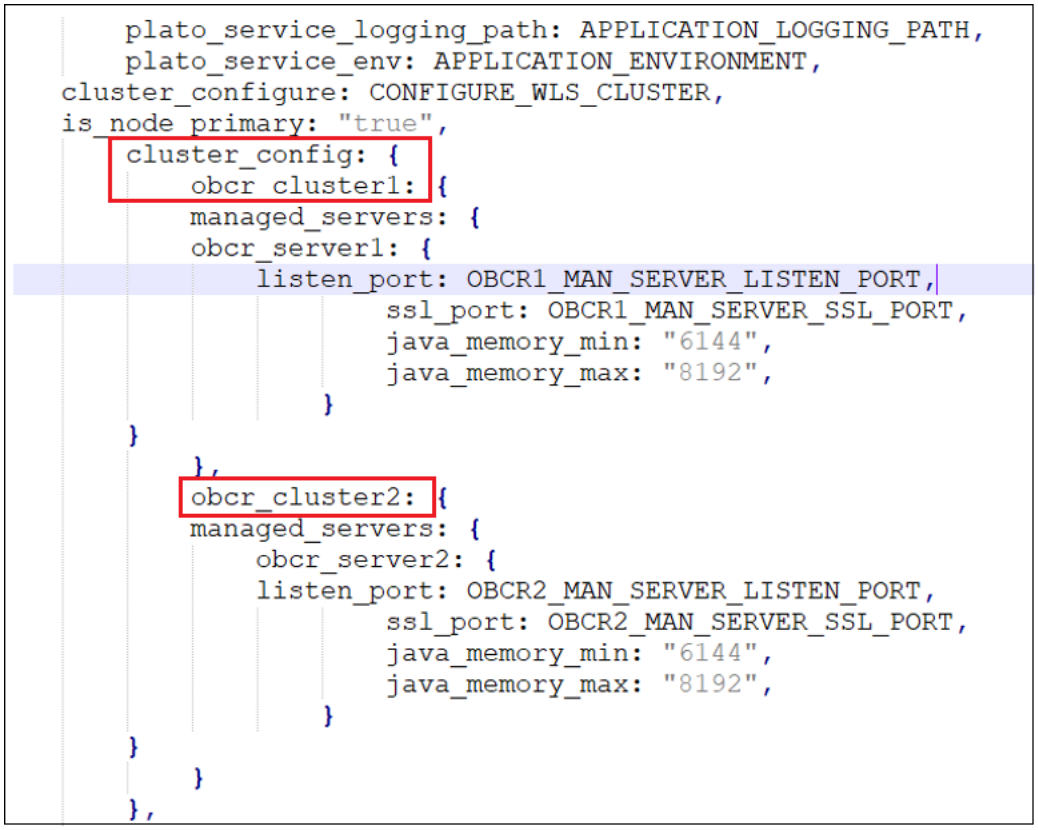
```
#DB TNS details for weblogic datasource configuration
ORACLE_PDB_SID = "PDB1335A"
ORACLE_PDB_HOSTNAME = "ofss-mum-2995.snbomprshared1.gbucdsint02bom.oraclevcn.com"
ORACLE_PDB_PORT = "1521"
ORACLE_DRIVER = "oracle.jdbc.driver.OracleDriver"
```

## 2.1.2 Update Roles File

**To update roles file:**

1. Navigate to the path `/scratch/obma_installer/chef-repo/roles/` and open the OBCR role file. Here, we will consider `obcr_mw.rb` for reference.
2. In case of addition or changes to the existing cluster configuration, modify the same under “cluster_config”.

**Figure 2-7 Modify Cluster Configuration**



```
        plato_service_logging_path: APPLICATION_LOGGING_PATH,
        plato_service_env: APPLICATION_ENVIRONMENT,
    cluster_configure: CONFIGURE_WLS_CLUSTER,
    is_node_primary: "true",
        cluster_config: {
            obcr_cluster1: {
            managed_servers: {
            obcr_server1: {
                listen_port: OBCR1_MAN_SERVER_LISTEN_PORT,
                        ssl_port: OBCR1_MAN_SERVER_SSL_PORT,
                        java_memory_min: "6144",
                        java_memory_max: "8192",
                    }
        }
            },
            obcr_cluster2: {
            managed_servers: {
                obcr_server2: {
                listen_port: OBCR2_MAN_SERVER_LISTEN_PORT,
                        ssl_port: OBCR2_MAN_SERVER_SSL_PORT,
                        java_memory_min: "6144",
                        java_memory_max: "8192",
                    }
        }
            }
        },
```

3. In case of addition or changes to the existing data source configuration, modify the same under “datasource_config”.

**Figure 2-8 Modify Datasource Configuration**

```
datasource_configure: "true",
datasource_config: {
    PLATO: {
        database_name: ORACLE_PDB_SID,
        driver_class: "oracle.jdbc.OracleDriver",
        jndi_name: PLATO_JNDI,
        host_name: ORACLE_PDB_HOSTNAME,
        port: ORACLE_PDB_PORT,
        global_transaction_protocol: "OnePhaseCommit",
        database_user_name: PLATO_SCHEMA,
        target: OBCR_PLATO_DS_TARGET
       },
    PLATOBATCH: {
        database_name: ORACLE_PDB_SID,
        driver_class: "oracle.jdbc.OracleDriver",
        jndi_name: PLATO_BATCH_JNDI,
        host_name: ORACLE_PDB_HOSTNAME,
        port: ORACLE_PDB_PORT,
        global_transaction_protocol: "OnePhaseCommit",
        database_user_name: PLATO_BATCH_SCHEMA,
        target: OBCR_PLATO_BATCH_DS_TARGET
       },
    PLATORULE: {
        database_name: ORACLE_PDB_SID,
        driver_class: "oracle.jdbc.OracleDriver",
        jndi_name: PLATO_RULE_JNDI,
        host_name: ORACLE_PDB_HOSTNAME,
        port: ORACLE_PDB_PORT,
        global_transaction_protocol: "OnePhaseCommit",
        database_user_name: PLATO_RULE_SCHEMA,
        target: OBCR_PLATO_RULE_DS_TARGET
       },
```

4. In case of addition or changes to the existing services or war files, modify the same under “app_deployment”.

**Figure 2-9 Modify Wars in App Deployment**

```
app_deployment: {
    app1: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-activity-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
    app2: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-action-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
    app3: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-common-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
    app4: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-entity-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
    app5: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-ptp-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
    app6: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-segmentation-services-9.1.0.war",
        app_target_name: "obcr_cluster1"
    },
```

5. Navigate to the bottom of the file and verify the recipes to be executed. All the listed recipes will be executed in sequential order as shown below.

   - CASE 1: If both foundation and product are on same VM, use the below runlist.

     ```
     run_list
     ['recipe[obma_weblogic::domain]','recipe[obma_weblogic::startadmin]','re
     cipe[obma_weblogic::startnm]','recipe[obma_weblogic::ssl_admin]','recip
     e[obma_weblogic::stopadmin]','recipe[obma_weblogic::ssl_nodemanager]','r
     ecipe[obma_weblogic::restartadmin]','recipe[obma_weblogic::cluster]','re
     cipe[obma_weblogic::addjdbcconnections_obcr]','recipe[obma_weblogic::set
     useroverridesupdate]','recipe[obma_weblogic::startman]','recipe[obma_web
     logic::deployapp]']
     ```

   - CASE 2: If foundation and product are on separate VMs, perform the below steps.

     a. Execute the below runlist.

     ```
     run_list
     ['recipe[obma_java::_install_java]','recipe[obma_java::create_certs]
     ','recipe[obma_weblogic::install_wls]','recipe[obma_weblogic::instal
     l_wls_patch]','recipe[obma_weblogic::domain]','recipe[obma_weblogic:
     :startadmin]','recipe[obma_weblogic::startnm]','recipe[obma_weblogic
     ::ssl_admin]','recipe[obma_weblogic::stopadmin]','recipe[obma_weblog
     ic::ssl_nodemanager]','recipe[obma_weblogic::restartadmin]','recipe[
     ```

```
obma_weblogic::cluster]','recipe[obma_weblogic::addjdbcconnections_o
bcr]','recipe[obma_weblogic::setuseroverridesupdate]','recipe[obma_w
eblogic::startman]']
```

b. Perform steps mentioned in section Certificate Sync Up between Foundation and Product VMs of *Oracle Banking Microservices Architecture Installer Guide.*

c. Execute below runlist.

```
run_list ['recipe[obma_weblogic::deployapp]']
```

## 2.1.3 Execute Installer Script

Perform the following steps for silent installation of Oracle Banking Collections:

1. Launch putty and login to product VM with NIS user and then switch to root user.
2. Navigate to the chef-repo path by executing the below command:

```
cd /scratch/obma_installer/chef-repo
```

3. Execute the installer script by executing the below command:

```
./obcr_installer.sh
```

# 3
# Data Source Verification

This topic describes the data source verification for Oracle Banking Collections installation.

### Prerequisites

Before proceeding with deployment setup, make sure that the database and application setup for Oracle Banking Microservices Architecture is done.

### Data Sources List

The table below lists the data sources created as a part of product installation.

**Table 3-1 Data Sources List**

| Serial Number | Data Source Name | Data Source JNDI | Targets |
|---|---|---|---|
| 1 | PLATO | jdbc/PLATO | obcr_server1 |
| | PLATOBATCH | jdbc/PLATOBATCH | obcr_server1 |
| | PLATOFEED | jdbc/PLATOFEED | obcr_server1 |
| | PLATO_UI | jdbc/PLATO_UI_CONFIG | obcr_server1 |
| | SMS | jdbc/sms | obcr_server1 |
| | PLATORULE | jdbc/PLATORULE | obcr_server1 |
| | PLATOSEC | jdbc/PLATOSECURITY | obcr_server1 |
| | CMNCORE | jdbc/CMNCORE | obcr_server1 |
| | CR_ACTION | jdbc/CR_ACTION | obcr_server1 |
| | CR_ACTIVITY | jdbc/CR_ACTIVITY | obcr_server1 |
| | CR_CMN | jdbc/CR_CMN | obcr_server1 |
| | CR_CORR | jdbc/CR_CORR | obcr_server1 |
| | CR_ENTITY | jdbc/CR_ENTITY | obcr_server1 |
| | CR_NOTES | jdbc/CR_NOTES | obcr_server1 |
| | CR_PTP | jdbc/CR_PTP | obcr_server1 |
| | CR_SEG | dbc/CR_SEG | obcr_server1 |
| | CR_FEECHRG | jdbc/CR_FEECHRG | obcr_server1 |
| 2 | PLATO | jdbc/PLATO | obcr_server2 |
| | PLATOBATCH | jdbc/PLATOBATCH | obcr_server2 |
| | PLATOFEED | jdbc/PLATOFEED | obcr_server2 |
| | PLATO_UI | jdbc/PLATO_UI_CONFIG | obcr_server2 |
| | SMS | jdbc/sms | obcr_server2 |
| | PLATORULE | jdbc/PLATORULE | obcr_server2 |
| | PLATOSEC | jdbc/PLATOSECURITY | obcr_server2 |
| | CMNCORE | jdbc/CMNCORE | obcr_server2 |
| | CR_SEGMAINT | jdbc/CR_SEGMAINT | obcr_server2 |
| | CR_STRTGY | jdbc/CR_STRTGY | obcr_server2 |

**Table 3-1 (Cont.) Data Sources List**

| Serial Number | Data Source Name | Data Source JNDI | Targets |
|---|---|---|---|
| | CR_STRTGYMAINT | jdbc/CR_STRTGYMAINT | obcr_server2 |
| | CR_TASK | jdbc/CR_TASK | obcr_server2 |
| | CR_TASKMAINT | jdbc/CR_TASKMAINT | obcr_server2 |
| | CR_USERMGMT | jdbc/CR_USERMGMT | obcr_server2 |
| | CR_DASHBOARD | jdbc/ CR_DASHBOARD | obcr_server2 |

**Note:**

For creating data source, see section Create Datasource of *Configuration and Deployment Guide.*

4

# Deployments Verification

This topic describes the deployments for Oracle Banking Collections installation.

### Prerequisites

- Before proceeding with the below setup, make sure that Kafka is configured and the related properties are present in PLATO schema. See section **"Oracle Banking Microservices Architecture Installer Guide"** for information on setting up the Kafka Cluster in '10.2'.
- To avail feature of record level approval functionality in Plato-Feed, the below property would need to be maintained as part of weblogic VM argument by each product domain including plato. If not maintained, the default behavior will be of file level approval only.
  **Property name** - feed.recordLevelApprovalReqd

  **Property value** - true or false

  **Default value** - false

### Deployments List

The below table gives details of the deployments required on each domain to run the Oracle Banking Collections application. It also provides path where application war files are located at Oracle Software Delivery Cloud (OSDC).

> **Note:**
>
> For the exact version of the archive name, refer to the OSDC file available as part of the release.

**Table 4-1 Deployments List**

| Application | Archive Name | OSDC Path | Targets |
|---|---|---|---|
| OBCR Activity Services | obcr-activity-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR Action Services | obcr-action-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR Common Services | obcr-common-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR Entity Services | obcr-entity-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR PTP Services | obcr-ptp-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR Segmentation Services | obcr-segmentation-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR Correspondence Services | obcr-correspondence-services-{version}.war | OBCR_SERVICES/ | OBCR Server1 |

**Table 4-1 (Cont.) Deployments List**

| Application | Archive Name | OSDC Path | Targets |
|---|---|---|---|
| OBCR Segment Maintenance Services | obcr-segment-maint-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Strategy Services | obcr-strategy-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Strategy Maintenance Services | obcr-strategy-maint-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Task Services | obcr-task-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Task Maintenance Services | obcr-task-maint-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR User Management Services | obcr-user-management-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Notes Services | obcr-notes-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Dashboard Services | obcr-dashboard-services-{version}.war | OBCR_SERVICES/ | OBCR Server2 |
| OBCR Fees Charges Services | obcr-fees-charges-services-{varsion}.war | OBCR_SERVICES/ | OBCR Server1 |
| OBCR UI | • app-shell-{version}.war<br>• cmc-component-server-{version}.war<br>• sms-component-server-{version}.war<br>• obcr-component-server-{version}.war | UI/ | API Gateway Server |

# 5
# Initial Setup

This topic describes the initial setup for Oracle Banking Collections installation.

Once everything is deployed, run the CMC and SMS initial setup scripts from the below mentioned paths at Oracle Software Delivery Cloud to create the required maintenances.

- `OBCR_INITIAL_SETUP/cmc_initial_setup.sql`
  To be compiled in Common Core schema.
- `OBCR_INITIAL_SETUP/obcr_role_creation.sql`
  To be compiled in SMS schema for Collections specific admin role creation.
- `OBCR_INITIAL_SETUP/sms_initial_setup.sql`
  To be compiled in SMS schema.
- `OBCR_INITIAL_SETUP/obma_role_seed.sql`
  To be compiled in SMS schema.
- `OBCR_INITIAL_SETUP/obcr_role.sql`
  To be compiled in SMS schema.
- `OBCR_INITIAL_SETUP/ plato_properties_script.sql`
  To be compiled in PLATO schema.
- `OBCR_INITIAL_SETUP/ dms_properties_script.sql`
  To be compiled in PLATO schema.
- `OBCR_INITIAL_SETUP/ platofeed_script.sql`
  To be compiled in PLATOFEED schema.
- `OBCR_INITIAL_SETUP/ obcr_field_collector_role.sql`
  To be compiled in SMS schema for Collections specific field agent role creation.

### CMC Initial Setup

This script would prompt a user to enter the below values.

**Table 5-1 CMC Initial Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 1 | Bank Code | A four-letter Bank Code |
| 2 | Bank Description | Description of the Bank Code |
| 3 | Branch Code | A three letter Branch Code |
| 4 | Branch Name | Name of the Branch |
| 5 | Branch Address Line 1 | Address line 1 of the branch |
| 6 | Branch Address Line 2 | Address line 2 of the branch |
| 7 | Branch Address Line 3 | Address line 3 of the branch |
| 8 | Branch Currency | A three letter ISO Currency Code |
| 9 | Branch Currency Description | The description of the branch currency |
| 10 | Country Code | A two letter ISO Country Code |

**Table 5-1 (Cont.) CMC Initial Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 11 | Walk-In Customer | Walk-in customer number |
| 12 | Host Code | Host code of the Branch |
| 13 | Host Description | Host code description |
| 14 | Host Process Time Zone | Host code time zone (GMT+5.30) |
| 15 | Source System | External source system |
| 16 | Source System Description | Source system description |
| 17 | Source System Branch | Branch code as in the source system |
| 18 | Previous Working Day | Previous working day of the Branch |
| 19 | Current Working Day | Current working day of the Branch |
| 20 | Next Working Day | Next working day of the Branch |

### OBCR Role Creation

The script would create an OBCR specific admin role COLL_MNGR_ROLE.

### SMS Initial Setup

This script would prompt the user to create two admin users.

**Table 5-2 SMS Initial Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 1 | User Login ID 1 | Login ID of the first User |
| 2 | User Name 1 | Name of the first User |
| 3 | User Login ID 2 | Login ID of the second User |
| 4 | User Name 2 | Name of the second User |
| 5 | Users Home Branch Code | A three letter Home-Branch Code of the users |
| 6 | Users Locale | Users locale (2 letter ISO country code) |
| 7 | Start Date | Start date |
| 8 | End Date | End date |

These users are assigned the default COLL_MNGR_ROLE, and the PLATO, SMS, CMC and the other functional activities are mapped.

### PLATO Additional Setup

This script would prompt the user for the following details regarding correspondence.

**Table 5-3 PLATO Additional Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 1 | Sender email Id | Email Id of the sender for communication |
| 2 | Branch Code | A three letter Branch Code |
| 3 | User ID | Admin User ID |

### DMS server Setup

This script would prompt the user for the following details regarding correspondence. These scripts are to be run only if you are using DMS server of document upload. This script is to be executed only if the values for these fields are not already present/updated in the database.

**Table 5-4 DMS server Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 1 | Dms Service URL | URL of the document management server |
| 2 | Dms Service Username | Login Id of the document management server |
| 3 | Dms Service Password | Password of the document management server |

### PLATOFEED Additional Setup

This script would prompt the user for the following details regarding plato feed.

**Table 5-5 SMS Initial Setup - Field Description**

| Serial Number | Field | Description |
|---|---|---|
| 1 | Branch code | A three letter Branch Code |

### LDAP Setup

The users created using the SMS script must also be created in the LDAP server.

> **Note:**
>
> For LDAP setup, see *Configuration and Deployment Guide.*

### Fact Creation

For creating facts, download the `obcr_facts.csv` file from this path: `OBCR_INITIAL_SETUP/obcr_facts.csv` at Oracle Software Delivery Cloud. The `obcr_facts.csv` file contains the list of facts that are used to configure rules in the system.

**To create facts:**

1. From the main menu in the **Oracle Banking Collections application,** navigate to **Rule** and then click **Fact.**
2. From the **Fact** menu , click **Create Fact.**
3. Click **Bulk Upload.**
4. Click **Drag and Drop** to browse to the required folder and select the `obcr_facts.csv` for upload.
5. Click **Upload.**

The `obcr_facts.csv` file contains the list of facts as mentioned below.

**Table 5-6 List of Facts for Oracle Banking Collections**

| Code | Description | Product Processor | Type |
|---|---|---|---|
| AccountOpeningORIntitialDisbursementDate | Account Opening Date | OBCR | DATE |
| AccountWriteOffAmount | Account Write Off Amount | OBCR | NUMBER |
| AccountWriteOffDate | Account Write Off Date | OBCR | DATE |
| AccuralStatus | Accural Status | OBCR | TEXT |
| AddressCountry | Country Code | OBCR | TEXT |
| AddressState | State Code | OBCR | TEXT |
| ApplicationScore | Application Score | OBCR | TEXT |
| AssetClassificationCode | Asset Classification Code | OBCR | TEXT |
| AvailableForDisbursement | Available For Disbursement | OBCR | TEXT |
| BICOEFlag | BICOE Flag | OBCR | TEXT |
| BehaviourScore | Behavior Score | OBCR | NUMBER |
| BusinessDate | Business Date | OBCR | DATE |
| CaseID | Case Id | OBCR | Case Id |
| ChargeOffAmount | ChargeOff Amount | OBCR | NUMBER |
| CollateralType | Collateral Type | OBCR | TEXT |
| CollectionStatus | Collection Status | OBCR | TEXT |
| CustomerRiskScore | Customer Risk Score | OBCR | NUMBER |
| DaysChargeOff | Days Charge Off | OBCR | NUMBER |
| DaysPastDue | Days Past Due | OBCR | NUMBER |
| DaysSinceAccountLinkagetoCase | Days Since Account Linkage to Case | OBCR | NUMBER |
| DaysSinceCaseCreation | Days Since Case Creation | OBCR | NUMBER |
| DelinquencyStartDate | Delinquency Start Date | OBCR | DATE |
| DisbursedAmount | Disbursed Amount | OBCR | NUMBER |
| ExistPromiseCount | Existing Promise Amount | OBCR | NUMBER |
| ForcedAccountSwitch | Forced Account Flag | OBCR | TEXT |
| HomeBranchCode | Home Branch Code | OBCR | TEXT |
| InsuredSwitch | Insured Switch | OBCR | TEXT |
| InterestRate | Interest Rate | OBCR | NUMBER |
| LastPaymentAmount | Last Payment Amount | OBCR | NUMBER |
| LastPaymentDate | Last Payment Date | OBCR | DATE |
| LoanMaturityORLimitExpiryDate | Loan Maturity OR Limit Expiry Date | OBCR | DATE |
| MaxPTPInstallCount | Max PTP Instalment Count | OBCR | NUMBER |
| NewPromiseCount | New Promise Count | OBCR | NUMBER |
| OutstandingAmount | Outstanding Amount | OBCR | NUMBER |
| OverdueAmount | Overdue Amount | OBCR | NUMBER |
| PartyType | Party Type | OBCR | TEXT |

**Table 5-6 (Cont.) List of Facts for Oracle Banking Collections**

| Code | Description | Product Processor | Type |
|---|---|---|---|
| ProductProcessorCd | Product Processor Code | OBCR | TEXT |
| ProductSubType | Product Sub Type | OBCR | TEXT |
| ProductType | Product Type | OBCR | TEXT |
| PromiseAmount | Promise Amount | OBCR | NUMBER |
| PromiseDate | Promise Date | OBCR | DATE |
| SecuredSwitch | Secured Switch | OBCR | TEXT |
| Segmen | Segment Code | OBCR | TEXT |
| SystemAccountStatus | System Account Status | OBCR | TEXT |
| TotalCollateralAssessedValue | Total Collateral Assessed Value | OBCR | NUMBER |
| UnClearedPaymentAmount | UnCleared Payment Amount | OBCR | NUMBER |
| UserDefinedAccountStatus | User Defined Account Status | OBCR | TEXT |
| VIPFlag | VIP Flag | OBCR | TEXT |
| Legal | Legal Collection Status | OBCR | BOOLEAN |
| Bankruptcy | Bankruptcy Collection | OBCR | BOOLEAN |
| Deceased | Deceased Collection Status | OBCR | BOOLEAN |
| Hardship | Hardship Collection Status | OBCR | BOOLEAN |
| Re-Marketing | Re-Marketing Collection Status | OBCR | BOOLEAN |
| Forbearance | Forbearance Collection Status | OBCR | BOOLEAN |
| Repossession | Repossession Collection Status | OBCR | BOOLEAN |

### Config update for report service

Next, for the plato-report-service, please make sure the below configurations done on the OBMA server.

> **Note:**
>
> This step is to be performed if not already done.

Create a directory by the name `report-fop-config` under `/scratch/env` directory.

Then, copy the file `fop.xconf` from the location `/THIRD_PARTY_SOFTWARE/report-fop-config` inside the package to the above created location.

Once done please run the below command

```
chmod 0755 /scratch/env/report-fop-config/fop.xconf
```

### OBRH Template Setup

You are responsible for validating the following configuration for the OBRH template screen after setting up OBRH.

Update the host and port with the correct values for each template for the service provider.

**Figure 5-1 External Service Provider Screen 1**

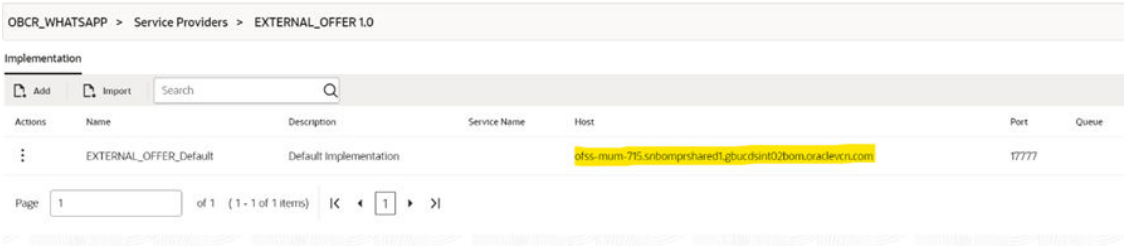
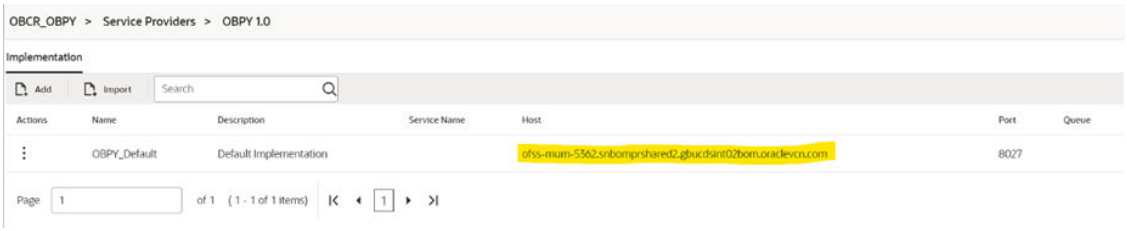



**Figure 5-2 External Service Provider Screen 2**



# 6
# Restart and Refresh

This topic describes the procedure to restart and refresh the servers.

Once everything is deployed, restart all the managed servers. For each application, call path `/refresh` to refresh the configuration properties.

### Restart Server

To restart the server, see chapter Restart Server of *Configuration and Deployment Guide.*

7

# Logging Area

This chapter describes the logging area of Oracle Banking Collections applications in server.

The logging area is configurable. The user can configure any path within the server, where you want to write the Oracle Banking Collections application logs. Oracle Banking Collections applications write the logs in the configured path with the name: **<Application name>.logs.** For example, if application name is **obcr-action-services,** then the logs file name would be obcr-action-servies.log.

# 8
# Patchset Setup

This topic describes about the Patchset setup using Oracle Banking Microservices Architecture Installer.

This section consists of following topics:

- Prerequisites
- Foundation Setup Upgrade
- Oracle Banking Collections Patch Installation

## 8.1 Prerequisites

Following are the Prerequisites:

1. Check for existing setup or the environment is available.
2. Updated Patch Set Installation script with respective to the current release upgrade is available in the respective VM's. If not copy the required scripts from SVN.

## 8.2 Foundation Setup Upgrade

**Installer Path**

You can download the installer from Oracle Software Delivery Cloud (OSDC). The following table provides the download path of the installer.

**Table 8-1 Installer Path**

| Application | Archive Name | OSDC Path |
|---|---|---|
| OBMA patch Installer | obma_patch.zip | INSTALLER/ |
| OBCR patch Installer | obcr_patch.zip | INSTALLER/ |

This section consists of the following topics:

- Download Installer
- Update Properties File
- Update Roles File

### 8.2.1 Download Installer

The patch installer is available in OSDC zip of each product.

**To download the installer:**

1. Launch putty and login to the VM (where the installation is planned) with OS user.

2. Create a directory obma_patch_installer in `/scratch`.

```
mkdir -p /scratch/obma_patch_installer
```

```
chmod 755 /scratch/obma_patch_installer
```

3. Navigate to the new directory obma_patch_installer.
   `cd /scratch/obma_patch_installer`
4. Download the patch installer zip file from the OSDC zip to obma_patch_installer directory.
5. Unzip installer zip file by executing the below command.

```
unzip <product zip file>
```

Before you proceed, please refer section '10.2 Kafka Cluster Setup' in **Oracle Banking Microservices Architecture Installer Guide** for Kafka SSL and Kafka scram passwords update.

## 8.2.2 Update Properties File

**To update properties file:**

1. Navigate to the path `/scratch/obma_patch_installer/chef-repo/`.
   Open the respective OBMA properties file and update the `obma_patch_properties.rb` with below details.
2. Update the local user and its group.

**Figure 8-1 Update Local User and Group**

```
#Standard Values
INSTALL_USER =  "obcrdev"
INSTALL_GROUP =  "dba"
USER_ROOT = "root"
GROUP_ROOT = "root"
INSTALL_BASE_DIR =  "/scratch"
EXTRACT_LOC = "/scratch/extract"
```

3. Verify the version of java, update if required, and ensure the same version is available in the software's directory.

**Figure 8-2 Verify Java Version**

```
#Java Installation Details
JAVA_INSTALLER_SOURCE =  "filesystem"
JAVA_INSTALLER_PATH =  "/java/"
JAVA_INSTALLATION_DIR =  INSTALL_BASE_DIR + "/obma"
JAVA_VERSION =  "11.0"
JDK_INSTALLER_VERSION =  "jdk-11.0.16"
JDK_INSTALLER_FILE = "jdk-11.0.16_linux-x64_bin.tar.gz"
CERTS_DIRNAME = INSTALL_BASE_DIR + "/ssl/cacerts"
```

4. Verify the configuration service details, update if required.

**Figure 8-3 Verify Configuration Details**

```
#Path where Oracle Banking product bundle is extracted
PRODUCT_BUNDLE_HOME =   "/scratch"
PLATO_CONFIG_SERVICES_URI =  "https://ofss-mum-2672.snbomprshared1.gbucdsint02bom.oraclevcn.com"
PLATO_CONFIG_SERVICES_PORT =  "8002"
APPLICATION_LOGGING_PATH =  "/scratch/work_area/logs"
```

5. Verify the Java home and certificate names.

**Figure 8-4 Verify Java Home and Certificate Names**

```
#Java Path
JAVA_HOME = "/scratch/obma/jdk-11.0.16"
CERTS_DIRNAME = "/scratch/ssl/cacerts"
CUSTOM_IDENTITY_JKS = "ofss-mum-2672.snbomprshared1.gbucdsint02bom.oraclevcn.com_identity.jks"
CUSTOM_TRUST_JKS = "ofss-mum-2672.snbomprshared1.gbucdsint02bom.oraclevcn.com_trust.jks"
CUSTOM_TRUST_CRT = "ofss-mum-2672.crt" # This can be crt or cer
KEYSTORETYPE = "JKS"
```

6. Follow the instructions in the **Oracle Banking Microservices Architecture Installer Guide**, under step '10.2 Kafka Cluster Setup', to ensure that the Kafka setup is completed correctly.
7. Verify the plato router details, update if required.

**Figure 8-5 Verify Plato Router**

```
#APIGATEWAY_ROUTER DETAILS
PLATO_APIGATEWAY_ROUTER_PORT = "8080"
APIGATEWAY_ROUTER_JAR_NAME = "plato-apigateway-router-9.1.0.jar"
APIGATEWAY_ROUTER_JAR_LOCATION = "/scratch/obma_patch_installer/deployables/apps/platoinfra"
# Encrypted Values for Certificate and SALT are present in apigateway_router databag
```

8. Update database details under “#Database details for weblogic datasource configuration”.

**Figure 8-6 Update Database Details**

```
#Database details for weblogic datasource configuration
ORACLE_PDB_SID = "PDB1323B"
ORACLE_PDB_HOSTNAME = "ofss-mum-2629.snbomprshared1.gbucdsint02bom.oraclevcn.com"
ORACLE_PDB_PORT = "1521"
ORACLE_DRIVER = "oracle.jdbc.driver.OracleDriver"
```

## 8.2.3 Update Roles File

**To update roles file:**

1. Navigate to the path `/scratch/obma_patch_installer/chef-repo/roles`. Update the `obma_patch_install.rb` with below details.
2. If you are upgrading from one version to another, then the version to be undeployed needs to be added in the below section **app_undeployment.**

**Figure 8-7 App Undeployment**

```
app_undeployment: {
    app1: {
        app_file_path: "/obma_installer/deployables/apps/platoinfra",
        app_file_name: "plato-config-service-8.2.0.war",
        app_target_name: "plato_config_cluster"
    },
    app2: {
        app_file_path: "/obma_installer/deployables/apps/platoinfra",
        app_file_name: "plato-discovery-service-8.2.0.war",
        app_target_name: "plato_discovery_cluster"
     },
    app3: {
        app_file_path: "/obma_installer/deployables/apps/platoinfra",
        app_file_name: "plato-api-gateway-8.2.0.war",
        app_target_name: "plato_api_gateway_cluster"
    },
```

3. In the **app_deployment** section, update the new version to be deployed.

**Figure 8-8 App Deployment**

```
app_deployment: {
    app1: {
        app_file_path: "/obma_patch_installer/deployables/apps/platoinfra",
        app_file_name: "plato-config-service-9.1.0.war",
        app_target_name: "plato_config_cluster"
    },
    app2: {
        app_file_path: "/obma_patch_installer/deployables/apps/platoinfra",
        app_file_name: "plato-discovery-service-9.1.0.war",
        app_target_name: "plato_discovery_cluster"
     },
    app3: {
        app_file_path: "/obma_patch_installer/deployables/apps/platoinfra",
        app_file_name: "plato-api-gateway-9.1.0.war",
        app_target_name: "plato_api_gateway_cluster"
    },
    app4: {
        app_file_path: "/obma_patch_installer/deployables/apps/platoinfra",
        app_file_name: "plato-ui-config-services-9.1.0.war",
        app_target_name: "plato_ui_config_cluster"
    },
```

4. Navigate to the bottom of the file and verify the recipes to be executed. All the listed recipes will be executed in sequential order as shown below.

For execution, please switch to root user from OS user and then run the below commands.

```
cd /scratch/obma_patch_installer/chef-repo
```

```
sh obma_patch_installer.sh
```

a. `run_list ['recipe[obma_patchset::undeployapp]','recipe[obma_patchset::stopman]','recipe[obma_patchset::updatesetuseroverrides_patch]','recipe[obma_patchset::startman]','recipe[obma_patchset::deployapp]']`

   Once successfully run, please make sure all services are up. Upon verification, please make update the runlist to as below and re-run the `obma_patch_installer.sh` command.

b. `run_list ['recipe[obma_patchset::deployapigateway_router]']`

   This step would bring up the plato-apigateway-router at the port specified. To confirm the same please visit the router logs at the location `/scratch/work_area/logs`.

# 8.3 Oracle Banking Collections Patch Installation

To upgrade the OBC product using patch installer, first perform steps mentioned in section Download Installer.

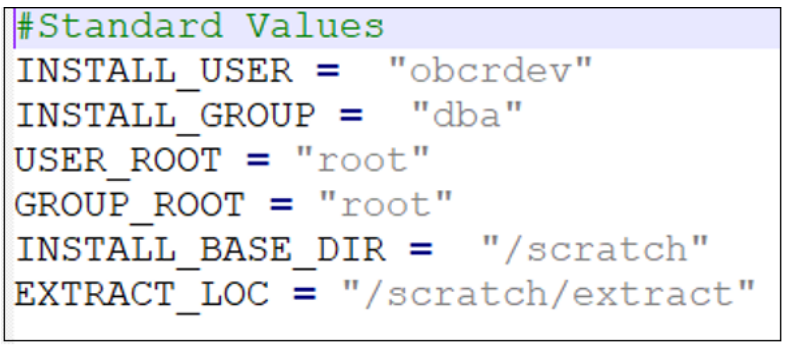
- Update Properties File
- Update Roles File

## 8.3.1 Update Properties File

**To update properties file:**

1. Navigate to the path `/scratch/obma_patch_installer/chef-repo/`. Open the respective product properties file and update the `obcr_patch_properties.rb` with below details.
2. Update the local user and its group.

**Figure 8-9 Update Local User and Group**



3. Verify Java home and certificate names.

**Figure 8-10 Verify Java Home**

```
#Java Path
JAVA_HOME = "/scratch/obma/jdk-11.0.16"
CERTS_DIRNAME = "/scratch/ssl/cacerts"
CUSTOM_IDENTITY_JKS = "ofss-mum-2550.snbomprshared1.gbucdsint02bom.oraclevcn.com_identity.jks"
CUSTOM_TRUST_JKS = "ofss-mum-2550.snbomprshared1.gbucdsint02bom.oraclevcn.com_trust.jks"
KEYSTORETYPE = "JKS"
```

## 8.3.2 Update Roles File

**To update roles file:**

1. Navigate to the path `/scratch/obma_patch_installer/chef-repo/roles` and update `obcr_patch_install.rb` file with below details.
2. If you are upgrading from one version to another, then the version to be undeployed needs to be added in the below section **app_undeployment.**

**Figure 8-11 App Undeployment**

```
app_undeployment: {
    app1: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-activity-services-8.2.0.war",
        app_target_name: "obcr_cluster1"
    },
    app2: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-action-services-8.2.0.war",
        app_target_name: "obcr_cluster1"
    },
    app3: {
        app_file_path: "/obma_installer/deployables/apps/obcr",
        app_file_name: "obcr-common-services-8.2.0.war",
        app_target_name: "obcr_cluster1"
    },
```

3. In the **app_deployment** section, update the new version to be deployed.

**Figure 8-12 App Deployment**

```
app_deployment: {
    app1: {
        app_file_path: "/obma_patch_installer/deployables/apps/obcr",
           app_file_name: "obcr-activity-services-9.1.0.war",
           app_target_name: "obcr_cluster1"
    },
     app2: {
         app_file_path: "/obma_patch_installer/deployables/apps/obcr",
            app_file_name: "obcr-action-services-9.1.0.war",
            app_target_name: "obcr_cluster1"
     },
   app3: {
       app_file_path: "/obma_patch_installer/deployables/apps/obcr",
       app_file_name: "obcr-common-services-9.1.0.war",
       app_target_name: "obcr_cluster1"
    },
```

4. Navigate to the bottom of the file and verify the recipes to be executed. All the listed recipes will be executed in sequential order as shown below.

```
run_list
['recipe[obma_patchset::undeployapp]','recipe[obma_patchset::stopman]','rec
ipe[obma_patchset::updatesetuseroverrides_patch]','recipe[obma_patchset::st
artman]','recipe[obma_patchset::deployapp]']
```

For execution, please switch to root user from OS user and then run the below commands.

```
cd /scratch/obma_patch_installer/chef-repo
sh obcr_patch_installer.sh
```

```
run_list
['recipe[obma_patchset::undeployapp]','recipe[obma_patchset::stopman]','recip
e[obma_patchset::addjdbcconnections_plato]','recipe[obma_patchset::updatesetus
eroverrides_patch]','recipe[obma_patchset::startman]','recipe[obma_patchset::d
eployapp]']
```

Once everything is deployed, run the initial setup scripts from the below mentioned paths at Oracle Software Delivery Cloud to create the required maintenances. The descriptions for each of these have been provided in the Initial setup section of this document.

If a new role/user needs to be created, then run the below two scripts in Section-A followed by scripts from Section-B.

If no new role/user needs to be created, then only run scripts from Section-B.

Post Section-A & B please run Section-C & D if and only if you need to fill a certain maintenance for correspondence. Please read the descriptions for these scripts from Initial setup section of this document before executing.

Especially, for section-D the script only needs to be executed if the values for these properties are not already present in the database.

**Section-A**

- `OBCR_INITIAL_SETUP/obcr_role_creation.sql`
  To be compiled in SMS schema for Collections specific admin role creation.

- `OBCR_INITIAL_SETUP/sms_initial_setup.sql`
  To be compiled in SMS schema.

**Section-B**

- `OBCR_INITIAL_SETUP/obma_role_seed.sql`
  To be compiled in SMS schema.
- `OBCR_INITIAL_SETUP/obcr_role.sql`
  To be compiled in SMS schema.

**Section-C**

- `OBCR_INITIAL_SETUP/ plato_properties_script.sql`
  To be compiled in PLATO schema.
- `OBCR_INITIAL_SETUP/ platofeed_script.sql`
  To be compiled in PLATOFEED schema.

**Section-D**

- `OBCR_INITIAL_SETUP/ dms_properties_script.sql`
  To be compiled in PLATO schema.
- `OBCR_INITIAL_SETUP/ obcr_field_collector_role.sql`
  To be compiled in SMS schema for Collections specific field agent role creation.

# 9
# Troubleshooting

This section consists of the following topics:



## 9.1 Troubleshooting for OBMA Patch Installation

If the OBMA services are not up after patch installation, please check the plato-config-server logs at the below location for further analysis.

`/scratch/obma/domain/PlatoInfra/servers/Config_Server1/logs`

If you see an error like “args list too long”, please navigate to the below file `setUserOverrides.sh` at location `/scratch/obma/domain/PlatoInfra/bin` and remove the unwanted properties. Then, please restart Config_Server1 on weblogic followed by the other managed servers. Once done, make OBMA services are up and running.

## 9.2 Troubleshooting for plato-apigateway-router

If you observe any SSL related issues in the plato-apigateway-router logs, then follow the below steps.

1. Stop the router by killing the router process.
2. Import the crt files into the java trust store on the VM on which the router is installed (the foundation machine ideally).
3. One crt file will be of the same foundation machine, while the other crt file(s) will be of the machine(s), the foundation machine has performed a sync with. Replace the password placeholder with the actual one.

   ```
   cd /scratch/ssl/cacerts

   keytool -importcert -file ofss-mum-2672.crt -keystore /scratch/obma/
   jdk-11.0.16/lib/security/cacerts -storepass <password> -noprompt

   keytool -importcert -alias domainCertForRouter -file ofss-mum-2550.crt -
   keystore /scratch/obma/jdk-11.0.16/lib/security/cacerts -storepass
   <password> -noprompt
   ```

4. Restart the router using through the OBMA installer using the below runlist.

   ```
   run_list ['recipe[obma_weblogic::deployapigateway_router]']
   ```