

Installation Guide
Oracle Banking Credit Facilities Process Management Installer
Release 14.3.0.0.0
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1. About this Manual

1.1 Introduction

Purpose:

This document provides the procedure to use the installer product.

Audience:

This guide is primarily intended for Developers for Oracle Banking products. Some information may be relevant to IT decision makers and users of the application are also included. Readers are assumed to possess basic operating system, network, and system administration skills with awareness of vendor/third-party software's and knowledge of Oracle Banking products.

1.2 **Scope**

1.2.1 **Read Sections Completely**

Each section should be read and understood completely. Instructions should never be blindly applied. Relevant discussion may occur immediately after instructions for an action, so be sure to read whole sections before beginning implementation.

1.2.2 **Understand the Purpose of this Guidance**

The purpose of the guidance is to provide procedure to use Oracle Banking Installer Product.

1.2.3 **Limitations**

This guide is limited in its scope to provide procedure to use Oracle Banking Installer Product.

2. Installer Product

The following sections require to be completed in a sequence to finish the installation.

2.1 Prerequisites

Below listed are the prerequisites which are required to use the Oracle Banking Installer:

1. Node machines must have Oracle Linux 7 installed with Oracle JDK 1.8 Update 202.
2. Install the Chef Client on the node machines to use the Oracle Banking Installer. Refer [Installation of Chef Client](#) section for detailed instructions to install chef client.
3. Make sure that the PDB with applicable DB schemas for the product are available (Please refer ANNEXURE-1.pdf).
4. Install the Oracle SQL Client must be installed on the node machine to use the Oracle Banking Installer for the DB SQL execution (Please refer ANNEXURE-1.pdf).
5. Make sure that the required number of WebLogic (12.2.1.3) managed servers and clusters for the product are up & running on SSL with Custom Trust Key Store (jks) (Please refer [Oracle_Banking_Credit_Facilities_Process_Management_14.3.0.0.0_SSL_Setup_Guide.pdf](#)).
6. Create the data bags required for the product installation. Refer [Data bag Creation](#) section for detailed instructions to create the data bags.
7. Set bash shell on node machines to run the Oracle Banking Installer.
8. Configure the proxy on each node machine. Set up the proxy with the following commands. (*Proxy setup is required only to update the yum package*)

```
$ export http_proxy=http://USERNAME:PASSWORD@proxy-server.mycorp.com:port/
```

```
$ export https_proxy=https://USERNAME:PASSWORD@proxyserver.mycorp.com:port/
```

9. Update yum using the following command.

```
$ yum update yum
```

10. Make sure that the system date & time is valid and latest.
11. FQDN should be set properly. You can check the current FQDN using this command.

```
$ hostname -f
```

2.1.1 Installation of Chef Client

Do the following steps to install the chef client:

1. Login to node machine as root user.
2. Copy the product OSDC bundle to the /scratch folder of the Oracle Linux Server i.e. node machine.
3. Extract the product OSDC bundle and navigate to /scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/software/chef-client/14.8.12.

```
$ cd /scratch/<<extracted OSDC bundle>>/oracle_banking_installer_pack/software/chef-client/14.8.12
```

4. Execute the below command to install the chef-client

```
$ rpm -ivh chef-14.8.12+20190122094824-1.e17.x86_64.rpm
```

5. Verify chef 14.8.12 is installed in the machine using this command.

```
$ chef-client --version
```

```
Chef: 14.8.12
```

2.1.2 Data bag Creation

The data bag contains the encrypted passwords for the WebLogic, DB and SSL. These passwords will be used by the Oracle Banking Installer during the product installation.

Chef requires a secret key to encrypt and decrypt the data bag items. Install the openssl in the node machine and use the following command to generate a secret key:

```
$ openssl rand -base64 512 > /scratch/<extracted OSDC  
bundle>/oracle_banking_installer_pack/chef-repo/secrets/secret_key
```

Note: Open ssl is one of the option to generate the secret key.

2.1.2.1 WebLogic

1. Navigate to */scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo/data_bags/fsgbu_weblogic_deploy/* folder.
2. Edit the json file "datasource_credentials.json". This json file will contain the data source passwords.

```
$ cd fsgbu_weblogic_deploy
```

```
$ vi datasource_credentials.json
```

3. Update plain data source passwords against the corresponding data source name in the json file.

```
{  
  "id": "datasource_credentials",  
  "<datasource name>": "<password>",  
  "<datasource name>": "<password>",  
  "<datasource name>": "<password>",  
  "<datasource name>": "<password>"  
}
```

4. For reference, see the below example datasource_credentials.json with sample content.

```
{  
  "id": "datasource_credentials",  
  "plato": "welcome1",
```

```
"plato_security": "welcome1",  
"plato_ui_config": "Password1",  
"plato_task_server": "Password1",  
"sms": "Password1",  
"commoncore": "Password1",  
"valuation": "Password1",  
"stage": "Password1",  
"settlement": "Password1",  
"scoringinfra": "Password1",  
"scoring": "Password1",  
"risk": "Password1",  
"registration": "Password1",  
"pricing": "Password1",  
"policy": "Password1",  
"partyonboarding": "Password1",  
"obcfpmbusinessprocess": "Password1",  
"monitoringinformationinfo": "Password1",  
"analysis": "Password1",  
"bidding": "Password1",  
"collateralpool": "Password1",  
"collateralprojection": "Password1",  
"collateral": "Password1",  
"covenantmaster": "Password1",  
"covenant": "Password1",  
"dashboard": "Password1",  
"documentsafekeeping": "Password1",  
"exception": "Password1",  
"externalcheck": "Password1",
```



```

"facility": "Password1",

"fieldinvestigation": "Password1",

"legal": "Password1",

"maintenance": "Password1"

}

```

- Execute the below knife command from chef-repo directory to encrypt the passwords.

```

knife data bag from file fsgbu_weblogic_deploy datasource_credentials.json --
secret-file /scratch/<extracted OSDC
bundle>/oracle_banking_installer_pack/chef-repo/secrets/secret_key --local-
mode

```

- Encrypted data bag file look like below (for reference).

```

{

  "id": "datasource_credentials",

  "plato": {

    "encrypted_data":
    "m0suBokKsy8Bu5X33YFd39JAbqz5CTrB4gVd9FwNuEKvYsHzbkHQyUpTHEkG\n5aI+ka/z2Pcddt1
zFgp4evnp4ERpFWqk7FLBf11TfYpcs3aRnC5MkSMmt208\nihr/C9ZcUdI/F6rnA4vJEpnmpyHkM1M
fGb5FaZDVgcNvz3gDJLrMt9WEGtqf\nr0+UU7AjMs/bo011Jj9Lm09T71UPhOPmMLpxSrvKqAEz3ia
VWWjayC1IfxXy\nwuXhV+hR0HuP\n",

    "iv": "Y0Iafm7EWhmjIjX1\n",

    "auth_tag": "+Y68ZesLqsiYkoI2KyIREQ==\n",

    "version": 3,

    "cipher": "aes-256-gcm"

  },

  "plato_security": {

    "encrypted_data":
    "SSCivRfo+B8LIgtDd48fTiOXGam2W6J2RXZrYRLPIJDoM0kjbM8UGOLj116/\nDdGpZcu5c6UnbF1
AwRqX60tLS4GBnk3WhqBAaFXwSpad8eh5MNkoFPZJ300\nmz6fJVz7xdxU78LKcgxOMI1XALSheSx
/1atXHxLgVqAM8eXjpG6vxwYlzmch\nsb5jnZ0WsoRjCumaJ0j/ohRUFwv6Eyrv5ESjj35q0FnB9I1
qDZzz/HN8A/AO\nCXirTNM=\n",

    "iv": "4dkvfbyRbjvK0Tk8\n",

    "auth_tag": "r45/oPUZ9Yd0FTp+mwV44Q==\n",

```

```
"version": 3,

"cipher": "aes-256-gcm"

},

"plato_ui_config": {

  "encrypted_data":
"bukZXxOruMZw4JRoyAqHazUa7XErdR3gr7TUnwPnpGwki30/cjdBdE5unL6E\nXgcM8Jp08zFLfWS
EJkn62N8spH7GVlc5A0t+TA5vLeHj2B5PKDtxGYPcLJXA\nx8T3SpYQrSUxazwKcZzC7rsSFKpci6N
kM7N4pM08qPAONwRUconbGevs9B1k\nRg7WFhDi4o+pVGJf3+lqEt12xmillyP888cpf2ttQktJOH1
4aXZWGyQxKo8u\n8h0iM0N0Ksaq\n",

  "iv": "m+2ia1bYTfAhbbq8\n",

  "auth_tag": "J6txcDNmPRcYkIXus3XWvg==\n",

  "version": 3,

  "cipher": "aes-256-gcm"

},

"plato_task_server": {

  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",

  "iv": "vLIF30pVZBLyucPr\n",

  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",

  "version": 3,

  "cipher": "aes-256-gcm"

},

"sms": {

  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",

  "iv": "vLIF30pVZBLyucPr\n",

  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",

  "version": 3,

  "cipher": "aes-256-gcm"

},

"commoncore": {

  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"valuation": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"stage": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"settlement": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"scoringinfra": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"scoring": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"risk": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"registration": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"pricing": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"policy": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"partyonboarding": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"obcfpmbusinessprocess": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"monitoringinformationinfo": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"analysis": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"bidding": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"collateralpool": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"collateralprojection": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"collateral": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"covenantmaster": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"covenant": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"dashboard": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```

```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"documentsafekeeping": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"exception": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"externalcheck": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"facility": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
```



```
"iv": "vLIF30pVZBLyucPr\n",
"auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"fieldinvestigation": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"legal": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"maintenance": {
  "encrypted_data": "s0i20txVXx2N7c7WgfMysvn9k04B2SzzaH02+7KJZTHR\n",
  "iv": "vLIF30pVZBLyucPr\n",
  "auth_tag": "jKEXypt170YSu3y9Wcun0Q==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
}
}
```

7. Edit the json file "ssl_credentials.json". This json file will contain the Custom TrustKeyStore Passphrase.

```
$ cd fsgbu_weblogic_deploy
```

```
$ vi ssl_credentials.json
```

8. Update plain Custom TrustKeyStore Passphrase against "ssl_password" key in the json file.

```
{  
  "id": "ssl_credentials",  
  "ssl_password": "<Custom TrustKeyStore Passphrase>"  
}
```

9. For reference, see the below example ssl_credentials.json with sample content.

```
{  
  "id": "ssl_credentials",  
  "ssl_password": "welcome1"  
}
```

10. Execute the below knife command from chef-repo directory.

```
knife data bag from file fsgbu_weblogic_deploy ssl_credentials.json --secret-file /scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo/secrets/secret_key --local-mode
```

11. Encrypted data bag file look like below (for reference).

```
{  
  "id": "ssl_credentials",  
  "ssl_password": {  
    "encrypted_data": "ZsmK4tgXb4L1NN1w0hAtDqVrFmVJaxa/1Wxm7Q==\n",  
    "iv": "tTrnDbFSDmpeeap+\n",  
    "auth_tag": "zdNDBY1tcSQe21ozkeC16g==\n",  
    "version": 3,  
    "cipher": "aes-256-gcm"  
  }  
}
```

12. Edit the json file "weblogic_credentials.json". This json file will contain the WebLogic admin username and password.

```
$ cd fsgbu_weblogic_deploy
$ vi weblogic_credentials.json
```

13. Update plain text WebLogic admin username and password against "wl_admin_username" and "wl_admin_password" keys respectively in the json file.

```
{
  "id": " weblogic_credentials",
  "wl_admin_password": "<weblogic admin user password>",
  "wl_admin_username": "<weblogic admin user name>"
}
```

14. For reference, see the below example weblogic_credentials.json with sample content.

```
{
  "id": " weblogic_credentials",
  "wl_admin_password": "welcome1",
  "wl_admin_username": "weblogic"
}
```

15. Execute the below knife command from chef-repo directory.

```
knife data bag from file fsgbu_weblogic_deploy weblogic_credentials.json --
secret-file /scratch/<extracted OSDC
bundle>/oracle_banking_installer_pack/chef-repo/secrets/secret_key --local-
mode
```

16. Encrypted data bag file look like below (for reference)

```
{
  "id": " weblogic_credentials",
  "wl_admin_password": {
    "encrypted_data": "vauqQm/Imoig1u7XW8ciWnRDkVk7LM+p8Hs98g==\n",
    "iv": "BoN0RFK7KBnVqcSM\n",
    "auth_tag": "ozvF+Weo7sfVIE0a/tgfMA==\n",
    "version": 3,
    "cipher": "aes-256-gcm"
  },
  "wl_admin_username": {
```

```
"encrypted_data": "n1VnxPa1GcUp9jEheZKX4CgkDw6hP7hXwghk\n",
"iv": "ibZRT+G1JTqKsTS4\n",
"auth_tag": "FXurd63q3yfFwU1xU0JSXA==\n",
"version": 3,
"cipher": "aes-256-gcm"
}
}
```

17. Make sure all json files are on 755 permission.

2.1.2.2 Database

1. Navigate to /scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo/data_bags/fsgbu_db_deploy folder.
2. Edit the json file "schema_credentials.json". This json file contains the db login passwords.

```
$ cd fsgbu_db_deploy
$ vi schema_credentials.json
```

3. Update the database passwords against their respective place holders in the json file. Schema Passwords should be updated against their respective schema names.

```
{
  "id": "schema_credentials",
  "<schema name>_schema_password": "<schema password>",
  "<schema name>_schema_password": "<schema password>"
}
```

4. For reference, see the below example schema_credentials.json with sample content.

```
{
  "id": " schema_credentials",
  "PLATO_SCHEMA_PASSWORD": "fsgbu",
  "PLATO_SECURITY_SCHEMA_PASSWORD": "fsgbu",
  "plato_ui_schema_password": "fsgbu",
  "common_core_passwd_blade": "fsgbu",
  "sms_passwd_blade": "fsgbu",
```

```
"analysis_password": "fsgbu",
"bidding_password": "fsgbu",
"collateralpool_password": "fsgbu",
"collateral_projection_password": "fsgbu",
"collateral_password": "fsgbu",
"covenant_password": "fsgbu",
"dashboard_password": "fsgbu",
"document_safekeeping_password": "fsgbu",
"exception_password": "fsgbu",
"external_check_password": "fsgbu",
"facility_password": "fsgbu",
"field_investigation_password": "fsgbu",
"legal_password": "fsgbu",
"maintenance_passowrd": "fsgbu",
"partyonboarding_password": "fsgbu",
"policy_password": "fsgbu",
"pricing_password": "fsgbu",
"registration_password": "fsgbu",
"risk_password": "fsgbu",
"scoring_password": "fsgbu",
"settlement_password": "fsgbu",
"stage_password": "fsgbu",
"valuation_password": "fsgbu",
"scoring_infra_password": "fsgbu"
}
```

5. Execute the below knife command from chef-repo directory.

```
knife data bag from file fsgbu_db_deploy schema_credentials.json --secret-file
/scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo/secrets/secret_key -
-local-mode
```

6. Encrypted data bag file look like below (for reference).

```
{
  "id": "schema_credentials",
  "PLATO_SCHEMA_PASSWORD": {
    "encrypted_data": "66xvqPDzuEBPNJXj0HFNfGCPK0nIikCovHtXvLQFRxtAe2Q=\n",
    "iv": "ib3jAYpHcU54Tz1s\n",
    "auth_tag": "mveskCvVZYjqKVEN2CKNeQ==\n",
    "version": 3,
    "cipher": "aes-256-gcm"
  },
  "PLATO_SECURITY_SCHEMA_PASSWORD": {
    "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
    "iv": "WfQ9hCyjJKg1zwko\n",
    "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
    "version": 3,
    "cipher": "aes-256-gcm"
  },
  "plato_ui_schema_password": {
    "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
    "iv": "WfQ9hCyjJKg1zwko\n",
    "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
    "version": 3,
    "cipher": "aes-256-gcm"
  },
  "common_core_passwd_blade": {
    "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
    "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"sms_passwd_blade": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"analysis_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"bidding_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"collateralpool_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"collateral_projection_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"collateral_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"covenant_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"dashboard_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```



```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"document_safekeeping_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"exception_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"external_check_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"facility_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQpla9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"field_investigation_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"legal_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"maintenance_passowrd": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"partyonboarding_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"policy_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"pricing_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"registration_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"risk_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"scoring_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"settlement_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"stage_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
},
"valuation_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
```

```
"auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
"version": 3,
"cipher": "aes-256-gcm"
},
"scoring_infra_password": {
  "encrypted_data": "L2Nk1cTNqYdFKG10CYhwceunnuQoRuxDJJz1MQp1a9D0\n",
  "iv": "WfQ9hCyjJKg1zwko\n",
  "auth_tag": "/ZpEvNuEo+e3d0B/rLtZfg==\n",
  "version": 3,
  "cipher": "aes-256-gcm"
}
}
```

7. Make sure all json files are on 755 permission.

2.2 Database Installation

Note: Make sure that all the DB schemas which are required for the product are available before installation (Please refer ANNEXURE-1).

1. Login to Linux server as root user
2. Go to /scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo folder.
3. Update Parameter file "**db_deploy_properties.rb**" with relevant values as described in below table.

| Attribute | Description |
|---|---|
| ORACLE_SERVER_HOSTNAME | Oracle Database Server Hostname |
| ORACLE_CLIENT_INSTALL_USER | User that owns the Oracle home directory. |
| ORACLE_CLIENT_HOME | Path to Oracle database Client home |
| PDB_SID | PDB SID |
| PDB_PORT | PDB Port |
| PRODUCT_CUSTOM_SCRIPTS_HOME | Path to the product directory inside the OSDC folder. Eg:- /scratch/OSDC/<product directory> |
| PLATO_SCHEMA_USERNAME | Plato schema username |
| PLATO_SECURITY_SCHEMA_USERNAME | Plato security schema username |
| PLATO_UI_CONFIG_DS_USERNAME | Plato UI schema username |
| SMS_SCHEMA_USERNAME | SMS schema username |
| COMMON_CORE_SCHEMA_USERNAME | Common Core schema username |
| VALUATION_SERVICES_SCHEMA_USERNAME | Valuation schema username |
| STAGE_SEGMENTS_SERVICES_SCHEMA_USERNAME | Stage schema username |

| | |
|---|---------------------------------------|
| SETTLEMENT_SERVICES_SCHEMA_USERNAME | Settlement schema username |
| SCORING_INFRA_SERVICES_SCHEMA_USERNAME | Scoring Infra schema username |
| SCORING_SERVICES_SCHEMA_USERNAME | Scoring schema username |
| RISK_SERVICES_SCHEMA_USERNAME | Risk schema username |
| REGISTRATION_SERVICES_SCHEMA_USERNAME | Registration schema username |
| PRICING_SERVICES_SCHEMA_USERNAME | Pricing schema username |
| POLICY_SERVICES_SCHEMA_USERNAME | Policy schema username |
| PARTYONBOARDING_SERVICES_SCHEMA_USERNAME | PartyOnboarding schema username |
| MONITORING_INFO_SCHEMA_USERNAME | Monitoring Info schema username |
| ANALYSIS_SERVICES_SCHEMA_USERNAME | Analysis schema username |
| BIDDING_SERVICES_SCHEMA_USERNAME | Bidding schema username |
| COLLATERAL_POOL_SERVICES_SCHEMA_USERNAME | Collateral Pool schema username |
| COLLATERAL_PROJECTIONS_SERVICES_SCHEMA_USERNAME | Collateral Projection schema username |
| COLLATERAL_SERVICES_SCHEMA_USERNAME | Collateral schema username |
| COVENANT_MASTER_SERVICES_SCHEMA_USERNAME | Covenant Master schema name |

| | |
|---|--------------------------------------|
| A_USERNAME | |
| COVENANT_SERVICES_SCHEMA_USERNAME | Covenant schema username |
| DASHBOARD_SERVICES_SCHEMA_USERNAME | Dashboard schema username |
| DOCUMENT_SAFEKEEPING_SERVICES_SCHEMA_USERNAME | Document Safekeeping schema username |
| EXCEPTION_SERVICES_SCHEMA_USERNAME | Exception schema username |
| EXTERNAL_CHECK_SERVICES_SCHEMA_USERNAME | ExternalCheck schema username |
| FACILITY_SERVICES_SCHEMA_USERNAME | Facility schema username |
| FIELD_INVESTIGATION_SERVICES_SCHEMA_USERNAME | Field Investigation schema username |
| LEGAL_SERVICES_SCHEMA_USERNAME | Legal schema username |
| MAINTENANCE_SERVICES_SCHEMA_USERNAME | Maintenance schema username |

4. Execute the shell script **db_deploy_installer.sh** under /oracle_banking_installer_pack/chef-repo
5. Tail the log file to see the progress

```
$ tail -f nohup.out
```


2.3 WebLogic Installation

Note: Make sure that all the DB schemas which are required for the product are available and make sure that the required number of WebLogic managed servers and clusters for the product are up & running on configured SSL before installation (Please refer ANNEXURE-1 and Oracle_Banking_Credit_Facilities_Process_Mangement_14.3.0.0.0_SSL_Setup_Guide).

1. Login to Linux server as root user
2. Go to /scratch/<extracted OSDC bundle>/oracle_banking_installer_pack/chef-repo folder.
3. Make sure that the Weblogic install user (user that owns weblogic home directory) has write permission on the extracted OSDC bundle.
4. Update Parameter file “*pre_installation_properties.rb*” with relevant values as described in below table

| Attribute | Description |
|-----------------------|--|
| PRODUCT_BUNDLE_HOME | Path to the product directory inside the OSDC folder. E.g.:- /scratch/OSDC/<product directory>. |
| APP_STARTERS_PATH_URL | Path to the destination folder inside which App starters files should be copied. |
| TASKS_PATH_URL | Path to the destination folder inside which Task files should be copied. |

5. Execute the shell script ***pre_installation_package_mw_deploy.sh*** under /oracle_banking_installer_pack/chef-repo
6. Tail the log file to see the progress

```
$ tail -f nohup.out
```

7. Update Parameter file “*mw_deploy_properties.rb*” with relevant values as described in below table.

| Attribute | Description |
|-----------|--|
| JAVA_HOME | Path to the directory where java is installed. |
| WLS_HOME | Path to the WebLogic home directory. |

| | |
|------------------------------------|---|
| WLS_INSTALL_USER | User who owns the WebLogic home directory |
| WLS_INSTALL_USER_GROUP | Group that owns the WebLogic home directory. |
| WLS_DOMAIN_NAME | Name of the WebLogic domain |
| IS_TARGET_CLUSTER | Whether the targets to which the deployment is to be done are clusters (true/false) |
| WLS_SSL_CUSTOM_TRUST_FILE | Location of the SSL custom trust file |
| WLS_SSL_CUSTOM_TRUST_KEYSTORE_TYPE | SSL Trust KeyStore Type(JCEKS or JKS) |
| WEBLOGIC_ADMIN_HOST | Weblogic Admin Host |
| WEBLOGIC_ADMIN_LISTEN_PORT | WebLogic Admin listen port |
| WEBLOGIC_ADMIN_SSL_PORT | WebLogic Admin SSL port |
| ORACLE_PDB_SID | Oracle PDB SID for data source configuration |
| ORACLE_PDB_HOSTNAME | Oracle PDB hostname for data source configuration |
| ORACLE_PDB_PORT | Oracle PDB port for data source configuration |
| PRODUCT_BUNDLE_HOME | Path to the product directory inside the OSDC folder. E.g.:- /scratch/OSDC/<product directory> |
| PLATO_DS_USERNAME | Plato datasource username |
| PLATO_SECURITY_DS_USERNAME | Plato security datasource username |
| PLATO_TASK_SERVER_DS_USERNAME | Plato task server datasource username |
| PLATO_UI_CONFIG_DS_USERNAME | Plato UI Config datasource username |
| SMS_SCHEMA_USERNAME | SMS datasource username |

| | |
|--|-------------------------------------|
| COMMON_CORE_SCHEMA_USERNAME | Common Core datasource username |
| VALUATION_SERVICES_SCHEMA_USERNAME | Valuation datasource username |
| STAGE_SEGMENTS_SERVICES_SCHEMA_USERNAME | Stage datasource username |
| SETTLEMENT_SERVICES_SCHEMA_USERNAME | Settlement datasource username |
| SCORING_INFRA_SERVICES_SCHEMA_USERNAME | Scoring Infra datasource username |
| SCORING_SERVICES_SCHEMA_USERNAME | Scoring datasource username |
| RISK_SERVICES_SCHEMA_USERNAME | Risk datasource username |
| REGISTRATION_SERVICES_SCHEMA_USERNAME | Registration datasource username |
| PRICING_SERVICES_SCHEMA_USERNAME | Pricing datasource username |
| POLICY_SERVICES_SCHEMA_USERNAME | Policy datasource username |
| PARTYONBOARDING_SERVICES_SCHEMA_USERNAME | PartyOnboarding datasource username |
| MONITORING_INFO_SCHEMA_USERNAME | Monitoring Info datasource username |
| ANALYSIS_SERVICES_SCHEMA_USERNAME | Analysis datasource username |
| BIDDING_SERVICES_SCHEMA_USERNAME | Bidding datasource username |

| | |
|---|---|
| COLLATERAL_POOL_SERVICES_SCHEMA_USERNAME | Collateral Pool datasource username |
| COLLATERAL_PROJECTIONS_SERVICES_SCHEMA_USERNAME | Collateral Projection datasource username |
| COLLATERAL_SERVICES_SCHEMA_USERNAME | Collateral datasource username |
| COVENANT_MASTER_SERVICES_SCHEMA_USERNAME | Covenant Master datasource name |
| COVENANT_SERVICES_SCHEMA_USERNAME | Covenant datasource username |
| DASHBOARD_SERVICES_SCHEMA_USERNAME | Dashboard datasource username |
| DOCUMENT_SAFEKEEPING_SERVICES_SCHEMA_USERNAME | Document Safekeeping datasource username |
| EXCEPTION_SERVICES_SCHEMA_USERNAME | Exception datasource username |
| EXTERNAL_CHECK_SERVICES_SCHEMA_USERNAME | ExternalCheck datasource username |
| FACILITY_SERVICES_SCHEMA_USERNAME | Facility datasource username |
| FIELD_INVESTIGATION_SERVICES_SCHEMA_USERNAME | Field Investigation datasource username |
| LEGAL_SERVICES_SCHEMA_USERNAME | Legal datasource username |
| MAINTENANCE_SERVICES_SCHEMA_USERNAME | Maintenance datasource username |
| PLATO_DS_TARGET | Plato datasource target |
| PLATO_SECURITY_DS_TARGET | Plato security datasource target |

| | |
|-----------------------------|-------------------------------------|
| PLATO_UI_CONFIG_DS_TARGET | Plato UI config datasource target |
| PLATO_TASK_SERVER_DS_TARGET | Plato task server datasource target |
| SMS_DS_TARGET | SMS datasource target |
| COMMON_CORE_DS_TARGET | Commoncore datasource target |
| OBCFPM_DS_TARGET | OBCFPM datasource target |
| DISCOVERY_SVCS_TARGET | Discovery services target |
| CONFIG_SVCS_TARGET | Config services target |
| API_GATEWAY_TARGET | API gateway target |
| UI_CONFIG_TARGET | UI config target |
| TASK_SERVER_TARGET | Task server target |
| SMS_CORE_SVCS_TARGET | SMS core services target |
| COMMON_CORE_TARGET | Commoncore services target |

8. Execute the shell scripts under /oracle_banking_installer_pack/chef-repo in the following order

- 1) plato_mw_deploy_installer.sh
- 2) sms_mw_deploy_installer.sh
- 3) commoncore_mw_deploy_installer.sh
- 4) domain_services_mw_deploy_installer.sh

Note: Before running each shell script, update the properties in “mw_deploy_properties.rb” as described in the above table.

9. Tail the log file to see the progress

```
$ tail -f nohup.out
```