ANNEXURE – 1
Oracle Banking
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1. ANNEXURE - 1

1.1 Introduction

This guide is a supporting document for the installation of PLATO applications. You can find the reference in the respective installation guides.

1.2 Placeholder Update for Plato-Services

The Placeholder update can be performed in the following methods:

- Method 1 Via setUserOverrides.sh file
- Method 2 Via passing the **-D params** in the Server start argument
- Method 3 Using **env** files and **setUserOverrides.sh** file
- Method 4 Via Workflow creation in Plato O

1.2.1 Method 1 – Via setUserOverrides.sh file

Perform the following steps:

- 1. Create a file called **setUserOverrides.sh** inside the Weblogic bin location.
- 2. The following formats of the **setUserOverrides.sh** file and the list of parameters that need to be passed in order to run the plato services properly.

NOTE: Below are the list of **-D params** (ENV Variables) which needs to be set for all the individual services. Set a single **-Dparam** as follows:

JAVA_OPTIONS="\${JAVA_OPTIONS} -DParam =<ParamValue>" export JAVA_OPTIONS

//Common Properties

- -Dplato.services.config.port= <CONFIG_SERVICE_PORT>
- -Dplato.services.config.uri= http://<CONFIG_SERVICE_HOSTNAME>:<CONFIG_SERVICE_PORT>
- -Deureka.client.serviceUrl.defaultZone= http://<DISCOVERY_SERVICE_HOST>:<DISCOVERY_SERVICE_PORT>/platodiscovery-service/eureka
- -Dplato.services.entityservices.port= <PLATO_ORCH_SERVICE_PORT>
- -Dplato.service.logging.path= <LOGGING PATH>

//Flyway Common Placeholders

- -Dflyway.domain.placeHolders.eureka.host= <DISCOVERY_SERVICE_HOST>
- -Dflyway.domain.placeHolders.eureka.port= <DISCOVERY_SERVICE_PORT>
- -Dflyway.domain.placeHolders.plato-api-gateway.server.port= <API GATEWAY PORT>
- -Dflyway.domain.placeHolders.zipkin.host= <ZIPKIN_HOSTNAME>
- -Dflyway.domain.placeHolders.zipkin.port= <ZIPKIN_PORT>

//SMS - Needed for other services also

-Dflyway.domain.placeHolders.sms.username= <SMS SCHEMA USERNAME>



- -Dflyway.domain.placeHolders.sms.password= <SMS SCHEMA PASSWORD>
- -Dflyway.domain.placeHolders.sms.jdbcUrl= <SMS_SCHEMA_URL>
- -Dflyway.domain.placeHolders.sms.schemas= <SMS_SCHEMA_NAME>

//Plato Config Service - Needed for other services also

- -Dflyway.domain.placeHolders.plato-config.username= <PLATO_DB_USERNAME>
- -Dflyway.domain.placeHolders.plato-config.password= <PLATO_DB_PASSWORD>"
- -Dflyway.domain.placeHolders.plato-config.jdbcUrl= <PLATO_DB_URL>
- -Dflyway.domain.placeHolders.driver.className= oracle.jdbc.driver.OracleDriver
- -Dflyway.domain.placeHolders.plato-config.schemas= <PLATO_DB_SCHEMANAME>

//Plato Api Gateway - Needed for other services also

- -Dflyway.domain.placeHolders.api-gateway.username=
- <SECURITY_DB_USERNAME>
- -Dflyway.domain.placeHolders.api-gateway.password=
- <SECURITY_DB_PASSWORD>
- -Dflyway.domain.placeHolders.api-gateway.jdbcUrl= <SECURITY_DB_URL>
- -Dflyway.domain.placeHolders.api-gateway.schemas= <SECURITY_SCHEMANAME>
- -Dflyway.domain.placeHolders.apigateway.host= <APIGATEWAY_HOSTNAME>
- -Dflyway.domain.placeHolders.apigateway.port= <APIGATEWAY_PORT>
- -Dflyway.domain.placeHolders.USER.STORE= <USER.STORE>
- -Dflyway.domain.placeHolders.LDAP.CORS.allowed.origin= <LDAP_CORS>
- -Dflyway.domain.placeHolders.LDAP.credential.SALT=
- <LDAP_CREDENTIALS_SALT>
- -Dflyway.domain.placeHolders.JWT.EXPIRY.seconds= <JWT EXPIRY SECONDS>
- -Dflyway.domain.placeHolders.LDAP.url = <LDAP SERVER URL >
- -Dflyway.domain.placeHolders.LDAP.userId = <LDAP_SERVER USER>
- -Dflyway.domain.placeHolders.LDAP.server.base = <LDAP_SERVER_BASE>
- -Dflyway.domain.placeHolders.LDAP.server.credential = <LDAP_CREDENTIALS>
- -Dflyway.domain.placeHolders.LDAP.usersearch.base = <LDAP_USER_BASE>
- -Dflyway.domain.placeHolders LDAP.user.prefix = <LDAP USER PREFIX>
- -Dflyway.domain.placeHolders.LDAP.provider = <LDAP PROVIDER>
- -Dflyway.domain.placeHolders.TOKEN.autoregenerate =
- <TOKEN AUTOREGENERATION>
- -Dflyway.domain.placeHolders.SSO.enabled = <SSO_ENABLED>
- -Dflyway.domain.placeHolders.TOKEN.regeneration.enabled =
- <TOKEN ALWAYSNEW GENERATION >

//Plato Discovery Service

-Dflyway.domain.placeHolders.plato-discoveryservice.server.port=<DISCOVERY SERVICE PORT>

//Plato UI-Config Services

-Dflyway.domain.placeHolders.plato-ui-config-



services.server.port=<UICONFIG_SERVICE_PORT>

- -Dflyway.domain.placeHolders.plato-uiconfig.username=<UICONFIG_SCHEMA_USERNAME>
- -Dflyway.domain.placeHolders.plato-ui-config.password=<UICONFIG_SCHEMA_PASSWORD>
- -Dflyway.domain.placeHolders.plato-ui-config.jdbcUrl=<UICONFIG_SCHEMA_URL>
- -Dflyway.domain.placeHolders.plato-uiconfig.schemas=<UICONFIG_SCHEMA_NAME>

//Plato Feed Services

- -Dflyway.domain.placeHolders.plato-feedservices.feed.upload.directory=<FEED_SERVICE_UPLOAD_PATH>
- -Dflyway.domain.placeHolders.plato-feedservices.server.port=<FEED_SERVICE_PORT>
- -Dflyway.domain.placeHolders.plato-feedservices.username=<FEED_DB_USERNAME>
- -Dflyway.domain.placeHolders.plato-feedservices.password=<FEED DB PASSWORD>
- -Dflyway.domain.placeHolders.plato-feed-services.jdbcUrl=<FEED_DB_URL>
- -Dflyway.domain.placeHolders.plato-feedservices.schemas=<FEED_SCHEMA_NAME>

//Plato Batch Server

- -Dflyway.domain.placeHolders.plato-batchserver.server.port=<BATCH_SERVER_PORT>
- -Dflyway.domain.placeHolders.plato-batchserver.plato.eventhub.kafka.brokers=<EVETNHUB_KAFKA_BROKERS>
- -Dflyway.domain.placeHolders.plato-batchserver.plato.eventhub.zk.nodes=<ZK_NODES>
- -Dflyway.domain.placeHolders.plato-batchserver.username=<BATCH_SCHEMA_USERNAME>
- -Dflyway.domain.placeHolders.plato-batchserver.password=<BATCH_SCHEMA_PASSWORD>
- -Dflyway.domain.placeHolders.plato-batch-server.jdbcUrl=<BATCH_SCHEMA_URL>
- -Dflyway.domain.placeHolders.plato-batchserver.schemas=<BATCH_SCHEMA_NAME>

// Plato-Alerts-Management-Services

- -Dflyway.domain.placeHolders.plato-alerts-managementservices.server.port=<ALERTS-MANAGEMENT-SERVER-PORT>
- -Dflyway.domain.placeHolders.plato-alerts-managementservices.plato.eventhub.kafka.brokers=<EVETNHUB KAFKA BROKERS>
- -Dflyway.domain.placeHolders.plato-alerts-managementservices.plato.eventhub.zk.nodes=<ZK_NODES>
- -Dflyway.domain.placeHolders.plato-alerts-management-services.username=<ALERTS_SCHEMA_USERNAME>
- -Dflyway.domain.placeHolders.plato-alerts-management-services.password=<ALERTS_SCHEMA_PASSWORD>



- -Dflyway.domain.placeHolders.plato-alerts-management-services.jdbcUrl=<ALERTS_SCHEMA_URL>
- -Dflyway.domain.placeHolders.plato-alerts-managementservices.schemas=<ALERTS_SCHEMA_NAME>

//Plato Orch Service

- -Dflyway.domain.placeHolders.plato-orchservice.server.port=<ORCH_SERVICE_PORT>
- -Dflyway.domain.placeHolders. plato-orchestrator.hostname=<CONDUCTOR-EUREKA-HOSTNAME >

//Conductor

-Dconductor.properties=<CONDUCTOR_CONFIG_FILE_PATH>

//Common core NLP services

- -Dflyway.domain.placeholders.cmc-nlp-annotator-
- services.server.port=<CMC_NLP_ANNOTATOR_SERVICES_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-dashboard-widget-
- services.server.port=<CMC_NLP_DASHBOARD_SERVICES_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-model-mngmnt-
- services.server.port=<CMC_NLP_MODEL_MANGEMENT_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-online-processing-
- services.server.port=<CMC_NLP_ONLINE_PROCESSING_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-tag-maint-
- services.server.port=<CMC_NLP_TAG_MAINTENANCE_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-text-extraction-
- services.server.port=<CMC NLP TEXT EXTRACTION PORT>
- -Dflyway.domain.placeholders.cmc-nlp-txn-log-
- services.server.port=<CMC_NLP_TXN_LOG_SERVICES_PORT>
- -Dflyway.domain.placeholders.cmc-nlp-util-
- services.server.port=<CMC_NLP_UTIL_SERVICES_PORT>

// Common core NLP Poller service

- -Dflyway.domain.placeholders.cmc-fc-ai-ml-services.server.port=<Server_Port>
- -Dflyway.domain.placeholders.cmc-fc-ai-ml-
- services.server.postingPath=<Posting_Path>



- -Dflyway.domain.placeholders.cmc-fc-ai-ml-services.server.pollingPath=<Polling_Path>
- -Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.pollingEmail=<Polling_Email>

-Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.emailServerHost=<Email_Server_Host>

-Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.emailServerPort=<Email_Server_PORT>

-Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.pollingFrequency=<Polling_Frequency>

-Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.pollerInitialDelay=<Poller_Initial_Delay>

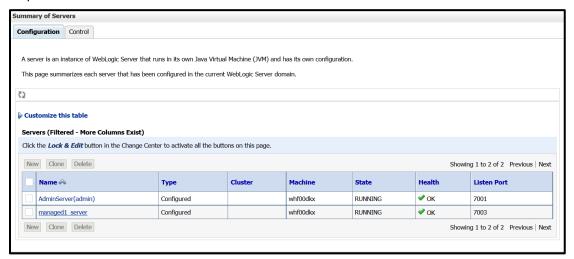
-Dflyway.domain.placeholders.cmc-fc-ai-ml-

services.server.emailPassword=<Poller_Email_Password>

1.2.2 Method 2 - Via passing the -D params in the Server start argument

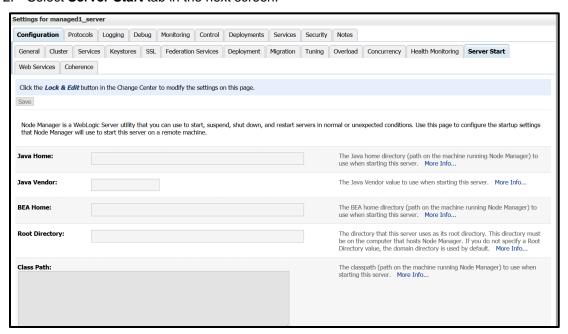
All the above mentioned -D parameters can be passed through the Server start argument in respective managed server. Perform the following steps:

1. Navigate to the Server **Configuration** tab and click managed server to which you want to pass the values.

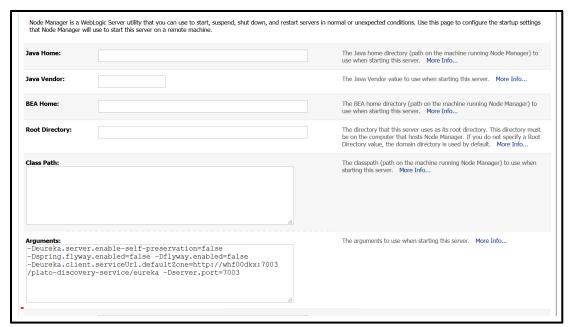




2. Select Server Start tab in the next screen.



3. Edit the **Arguments** field and pass all the environment parameters required for the service to run.



4. Save the configuration and restart the managed server. After you restart, the service can be started or deployed properly.



1.2.3 Method 3 - Using env files and setUserOverrides.sh file

Perform the following steps:

1. Copy the **setUserOverrides.sh** file to each of the <domain>/bin folder. The example of the file is given below:

```
#!/bin/bash
# shellcheck disable=SC1090
# Common functions
set -e -x
config_file=""
PLATO_CONFIG_MANAGED_SERVER_NAME=""
# This file is used only for PLATO-CONFIG service
plato_config_file="${DOMAIN_HOME}/bin/plato-config-deploy.env"
# This file is used for rest of the services
domain config file="${DOMAIN HOME}/bin/domain-config-deploy.env"
if [ -f "$plato_config_file" ]; then
   PLATO_CONFIG_MANAGED_SERVER_NAME=`cat ${DOMAIN_HOME}/bin/plato-
config-deploy.env | grep "PLATO_CONFIG_MANAGED_SERVER_NAME" | cut -d'=' -f2`
fi
if [ "${SERVER_NAME}" = "${PLATO_CONFIG_MANAGED_SERVER_NAME}" ] ; then
   # This will get executed only for Plato-config service entries
   config_file="${plato_config_file}"
else
   # This will get executed for all other services
   config_file="${domain_config_file}"
fi
if [ -f "$config_file" ]
then
   while read -r prop || [ -n "$prop" ]
   do
       case "$prop" in \#*) continue ;; esac
       if [ -z "${prop}" ]; then
       continue
   else
       PLACEHOLDERS=${PLACEHOLDERS}" "$(echo -D$prop)
       PLACEHOLDERS="${PLACEHOLDERS}"
   fi
```



```
done < "$config_file"
else
    echo "$config_file not found. please provide the property file to set -D parameter"
    exit 1
fi
PLACEHOLDERS="${PLACEHOLDERS}"

JAVA_OPTIONS="${JAVA_OPTIONS}${PLACEHOLDERS}"

export JAVA_OPTIONS
echo "${JAVA_OPTIONS}"</pre>
```

Place the env files containing all the key value pairs of the -D params in the respective <domain>/env folder.

NOTE: The plato-config-deploy.env file contains all the key value pairs specific only to the plato-config-service and need to be placed in the bin folder of the plato-domain. The domain-config-deploy.env file contains the key-value pairs for the rest of the services and should be placed in each <domain>/bin folder.

The sample for each of the files are given below:

plato-config-deploy.env

```
### Managed server name of plato-config service ###
PLATO_CONFIG_MANAGED_SERVER_NAME=
### plato config flyway connection entries ###
flywayTask=migrate
flyway.enabled=true
spring.flyway.enabled=false
plato-config.flyway.domain.db.username=
plato-config.flyway.domain.db.password=
plato-config.flyway.domain.db.jdbcUrl=
plato-config.flyway.domain.schemas=
plato-
config.flyway.domain.locations=db/migration/domain/plato,db/migration/domain/sms,db/migra
tion/domain/cmc,db/migration/domain/obvam
#### Kafka properties for all services ####
flyway.domain.placeholders.plato.eventhub.broker.hosts=
flyway.domain.placeholders.plato.eventhub.zookeper.hosts=
#### Kafka Security for all services ####
flyway.domain.placeholders.plato.eventhub.broker.hosts=
flyway.domain.placeholders.plato.eventhub.zookeper.hosts=
```



flyway.domain.placeholders.kafka.ssl.truststore.location=

flyway.domain.placeholders.kafka.ssl.truststore.password=

flyway.domain.placeholders.kafka.broker.username=

flyway.domain.placeholders.kafka.broker.password=

common entries for all services

flyway.domain.placeholders.driver.className=oracle.jdbc.driver.OracleDriver

eureka entries for all services

flyway.domain.placeholders.eureka.host=

flyway.domain.placeholders.eureka.port=

zipkin entries for all services

flyway.domain.placeholders.zipkin.host=

flyway.domain.placeholders.zipkin.port=

plato config flyway placeholder entries

flyway.domain.placeholders.plato-config.username=

flyway.domain.placeholders.plato-config.password=

flyway.domain.placeholders.plato-config.jdbcUrl=

flyway.domain.placeholders.plato-config.schemas=

flyway.domain.placeholders.plato-config.sessionIdleTimeout=

flyway.domain.placeholders.plato-config.sessionIdleWarningTime=

flyway.domain.placeholders.plato-config.environment=

plato api-gateway flyway placeholder entries

flyway.domain.placeholders.api-gateway.host=

flyway.domain.placeholders.api-gateway.username=

flyway.domain.placeholders.api-gateway.password=

flyway.domain.placeholders.api-gateway.jdbcUrl=

flyway.domain.placeholders.api-gateway.schemas=

flyway.domain.placeholders.plato-api-gateway.server.port=

plato api-gateway LDAP flyway placeholder entries

flyway.domain.placeholders.USER.STORE=

flyway.domain.placeholders.LDAP.CORS.allowed.origin=

flyway.domain.placeholders.LDAP.credential.SALT=

flyway.domain.placeholders.JWT.EXPIRY.seconds=

flyway.domain.placeholders.LDAP.url=

flyway.domain.placeholders.LDAP.userId=

flyway.domain.placeholders.LDAP.server.base=

flyway.domain.placeholders.LDAP.server.credential=

flyway.domain.placeholders.LDAP.usersearch.base=



flyway.domain.placeholders.LDAP.user.prefix=

Allowed values for LDAP provider are: EMBEDDED WEBLOGIC, PLATO

If LDAP is running in weblogic then value should be EMBEDDED_WEBLOGIC

If spring based LDAP(which is run through a jar provided) is used, then the value should be PLATO

flyway.domain.placeholders.LDAP.provider=

flyway.domain.placeholders.TOKEN.autoregenerate=

flyway.domain.placeholders.SSO.enabled=

flyway.domain.placeholders.TOKEN.regeneration.enabled=

plato-ui-config flyway placeholder entries

flyway.domain.placeholders.plato-ui-config.username=

flyway.domain.placeholders.plato-ui-config.password=

flyway.domain.placeholders.plato-ui-config.jdbcUrl=

flyway.domain.placeholders.plato-ui-config.schemas=

flyway.domain.placeholders.plato-ui-config-services.server.port=

flyway.domain.placeholders.apigateway.host=

flyway.domain.placeholders.apigateway.port=

plato-discovery flyway placeholder entries

flyway.domain.placeholders.plato-discovery-service.server.port=

plato-orch flyway placeholder entries

flyway.domain.placeholders.plato-orch-service.server.port=

flyway.domain.placeholders.plato-orchestrator.hostname=

plato-feed flyway placeholder entries

flyway.domain.placeholders.plato-feed-services.username=

flyway.domain.placeholders.plato-feed-services.password=

flyway.domain.placeholders.plato-feed-services.jdbcUrl=

flyway.domain.placeholders.plato-feed-services.jndi=jdbc/PLATOFEED

flyway.domain.placeholders.plato-feed-services.schemas=

flyway.domain.placeholders.plato-feed-services.feed.upload.directory=

flyway.domain.placeholders.plato-feed-services.server.port=

plato-batch flyway placeholder entries

flyway.domain.placeholders.plato-batch-server.username=

flyway.domain.placeholders.plato-batch-server.password=

flyway.domain.placeholders.plato-batch-server.jdbcUrl=

flyway.domain.placeholders.plato-batch-server.schemas=

flyway.domain.placeholders.plato-batch-server.server.port=

flyway.domain.placeholders.plato-batch-server.plato.eventhub.kafka.brokers=



flyway.domain.placeholders.plato-batch-server.plato.eventhub.zk.nodes= flyway.domain.placeholders.plato-batch-server.jndi=jdbc/PLATOBATCH

plato-alerts-management flyway placeholder entries
flyway.domain.placeholders.plato-alerts-management-services.username=
flyway.domain.placeholders.plato-alerts-management-services.password=
flyway.domain.placeholders.plato-alerts-management-services.jdbcUrl=
flyway.domain.placeholders.plato-alerts-management-services.schemas=
flyway.domain.placeholders.plato-alerts-management-services.server.port=

sms flyway placeholder entries
flyway.domain.placeholders.sms-core-services.server.port=
flyway.domain.placeholders.sms.username=
flyway.domain.placeholders.sms.password=
flyway.domain.placeholders.sms.jdbcUrl=
flyway.domain.placeholders.sms.schemas=

cmncore flyway placeholder entries
flyway.domain.placeholders.cmncore.username=
flyway.domain.placeholders.cmncore.password=
flyway.domain.placeholders.cmncore.jdbcUrl=
flyway.domain.placeholders.cmncore.schemas=

flyway.domain.placeholders.cmc-corebanking-adapter-service.server.port= flyway.domain.placeholders.cmc-currency-services.server.port= flyway.domain.placeholders.cmc-account-services.server.port= flyway.domain.placeholders.cmc-base-services.server.port=

flyway. domain. placeholders. cmc-external-virtual-account-services. server. port=

flyway.domain.placeholders.cmc-branch-services.server.port=

flyway. domain. placeholders. cmc-customer-services. server. port=

flyway.domain.placeholders.cmc-external-chart-account-services.server.port=

flyway. domain. placeholders. cmc-external-system-services. server. port=

flyway.domain.placeholders.cmc-advice-services.server.port=

flyway.domain.placeholders.cmc-facilities-services.server.port=

flyway. domain. placeholders. cmc-txn-code-services. server. port=

flyway. domain. placeholders. cmc-settlement-services. server. port=

flyway.domain.placeholders.cmc-businessoverrides-services.server.port=

flyway.domain.placeholders.cmc-resource-segment-orchestrator-service.server.port=

flyway.domain.placeholders.cmc-screenclass-services.server.port=

flyway.domain.placeholders.cmc-datasegment-services.server.port=

flyway.domain.placeholders.cmc-settlements-services.server.port=



flyway.domain.placeholders.cmc-transactioncontroller-services.server.port= flyway.domain.placeholders.cmc-report-services.server.port= flyway.domain.placeholders.cmc-nlp-annotator-services.server.port= flyway.domain.placeholders.cmc-nlp-dashboard-widget-services.server.port= flyway.domain.placeholders.cmc-nlp-model-mngmnt-services.server.port= flyway.domain.placeholders.cmc-nlp-online-processing-services.server.port= flyway.domain.placeholders.cmc-nlp-tag-maint-services.server.port= flyway.domain.placeholders.cmc-nlp-text-extraction-services.server.port= flyway.domain.placeholders.cmc-nlp-txn-log-services.server.port= flyway.domain.placeholders.cmc-nlp-util-services.server.port= flyway.domain.placeholders.cmc-batch-services.server.port= flyway.domain.placeholders.cmc-fc-ai-ml-services.server.port= flyway.domain.placeholders.cmc-fc-ai-ml-services.postingPath= flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingEmail= flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerPort= flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerHost= flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingFrequency= flyway.domain.placeholders.cmc-fc-ai-ml-services.pollerInitialDelay= flyway.domain.placeholders.cmc-fc-ai-ml-services.emailPassword= flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingPath=

biPublisher related cmc-report-service entries
flyway.domain.placeholders.weblogic.userid=
flyway.domain.placeholders.weblogic.password=
flyway.domain.placeholders.biPublisher.host=
flyway.domain.placeholders.biPublisher.port=
flyway.domain.placeholders.runReportTemplate=
flyway.domain.placeholders.emailTemplate=
flyway.domain.placeholders.dms.host=
flyway.domain.placeholders.dms.port=

flyway jndi connection details for shared services placeholder entries ### flyway.domain.placeholders.plato.jndi=jdbc/PLATO flyway.domain.placeholders.plato-config.jndi=jdbc/PLATO flyway.domain.placeholders.plato-sec.jndi=jdbc/PLATO_SECURITY flyway.domain.placeholders.plato-ui-config.jndi=jdbc/PLATO_UI_CONFIG flyway.domain.placeholders.sms.jndi=jdbc/sms flyway.domain.placeholders.cmncore.jndi=jdbc/CMNCORE

flyway indi connection details for obvam services placeholder entries



flyway.domain.placeholders.eie.jndi=jdbc/EIE flyway.domain.placeholders.eie.server.port= flyway.domain.placeholders.eie.schemas=

flyway.domain.placeholders.elm.jndi=jdbc/ELM flyway.domain.placeholders.elm.server.port= flyway.domain.placeholders.elm.schemas=

flyway.domain.placeholders.vam.jndi=jdbc/VAM flyway.domain.placeholders.vam.server.port= flyway.domain.placeholders.vam.schemas=

flyway.domain.placeholders.vac.jndi=jdbc/VAC flyway.domain.placeholders.vac.server.port= flyway.domain.placeholders.vac.schemas=

flyway.domain.placeholders.vab.jndi=jdbc/VAB flyway.domain.placeholders.vab.server.port= flyway.domain.placeholders.vab.schemas=

flyway.domain.placeholders.vae.jndi=jdbc/VAE flyway.domain.placeholders.vae.server.port= flyway.domain.placeholders.vae.schemas=

flyway.domain.placeholders.eda.jndi=jdbc/EDA flyway.domain.placeholders.eda.server.port= flyway.domain.placeholders.eda.schemas=

flyway.domain.placeholders.vai.jndi=jdbc/VAI flyway.domain.placeholders.vai.server.port= flyway.domain.placeholders.vai.schemas=

flyway.domain.placeholders.van.jndi=jdbc/VAN flyway.domain.placeholders.van.server.port= flyway.domain.placeholders.van.schemas=

flyway.domain.placeholders.vap.jndi=jdbc/VAP flyway.domain.placeholders.vap.server.port= flyway.domain.placeholders.vap.schemas=

flyway.domain.placeholders.vas.jndi=jdbc/VAS flyway.domain.placeholders.vas.server.port= flyway.domain.placeholders.vas.schemas=

flyway.domain.placeholders.vat.jndi=jdbc/VAT flyway.domain.placeholders.vat.server.port=



```
flyway.domain.placeholders.vat.schemas=
flyway.domain.placeholders.vaj.server.port=
### generic entries for all services ###
spring.cloud.config.uri=
apigateway.url=
service.logging.environment=
service.logging.path=
domain-config-deploy.env
### domain config flyway connection entries ###
flywayTask=migrate
flyway.enabled=true
spring.flyway.enabled=false
### generic entries for all services ###
spring.cloud.config.uri=
apigateway.url=
service.logging.environment=
service.logging.path=
```

1.2.4 Method 4 – Workflow Configuration

Follow the below steps to create a workflow:

```
1. Metadata of the workflow creation. The sample DSL for workflow creation is given below:
{
    "name": "initialTest",
    "description": "Test workflow",
    "version": 4,
    "tasks": [
            "name": "TEST",
            "taskReferenceName": "TESTING3",
            "description": "TESTING2",
            "inputParameters": {
            "FUNCTIONAL_CODE": "TEST_FA_ILS_REGTN2",
            "processRefNo":
         "${workflow.input.transactionModel.txnIdentification.processRefNo}",
            "processName": "Testing Process2",
            "processCode":
        "${workflow.input.transactionModel.txnIdentification.processName}",
```



```
"transactionModel": "${workflow.input.transactionModel}",
            "stage": "TESTING2",
            "priority":
        "${workflow.input.transactionModel.transactionData.moduleData.taskPrioirty}",
            "applicationDate":
    "${workflow.input.transactionModel.txnIdentification.applicationDate}",
            "applicationNumber":
    "${workflow.input.transactionModel.txnIdentification.processRefNo}",
            "processRefNumber":
"${workflow.input.transactionModel.txnIdentification.processRefNo}",
            "branch": "${workflow.input.transactionModel.txnIdentification.branchCode}",
            "user": "${workflow.input.transactionModel.txnIdentification.currentUser}",
            "customerNumber":
    "${workflow.input.transactionModel.transactionData.moduleData.customerId}",
            "amount":
        "${workflow.input.transactionModel.transactionData.moduleData.amount}",
            "currencyCode":
    "${workflow.input.transactionModel.transactionData.moduleData.currency}",
            "TASK_OUTCOMES": [
            "PROCEED"
            ],
            "moduleCode": "OBTFPM",
            "customFilter": [
            {
            "key": "contractRefNo",
            "label": "Back Office Reference"
            },
            {
            "key": "otherRefNo",
            "label": "External Reference"
            }
       ]
       },
       "type": "WAIT",
       "startDelay": 0,
       "optional": false,
       "asyncComplete": false
   }
   ],
    "outputParameters": {
```



```
"stage": "CLMO_FA_SNPOAR_APPEN",

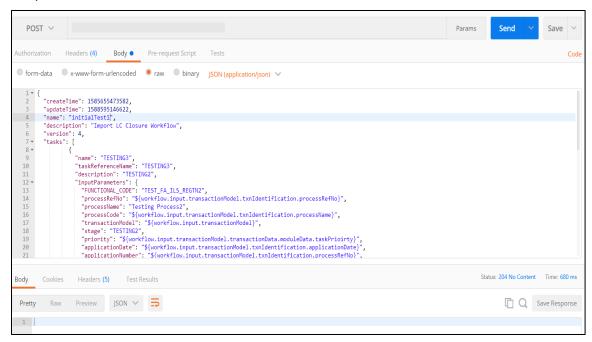
"taskOutcome": "PROCEED_WITH_PARTICIPANT"
},

"schemaVersion": 2,

"restartable": true,

"workflowStatusListenerEnabled": false
}
```

Call the API (/api/metadata/workflow) and pass the DSL in body. The following screen depicts the sample workflow:



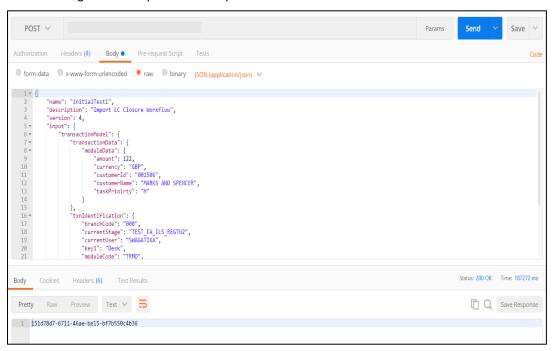
2. Workflow Creation

Call the API (/api/workflow) to create the workflow. This API provides the information to the workflow metadata which we have created using previous call.



```
"taskPrioirty": "H"
      }
     },
             "txnldentification": {
             "branchCode": "000",
             "currentStage": "TEST_FA_ILS_REGTN2",
             "currentUser": "SWAGATIKA",
             "key1": "Desk",
             "moduleCode": "TRMO",
             "processName": "Testing Process2",
             "processRefNo": "300ILCI012260",
             "applicationDate": 1588582461960,
             "taskOutcome": "PROCEED",
             "taskPrioirty": "H"
      }
  }
}
```

The following screen depicts the sample workflow:



1.3 How to Create Domain and Cluster Configuration

This section contains the following sub-sections:

- Domain Creation Configuration
- Post Domain Creation Configurations

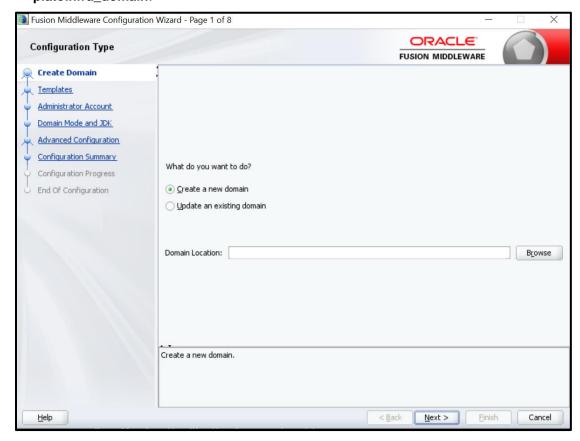


1.3.1 <u>Domain Creation Configuration</u>

Perform the following steps for domain and cluster configuration:

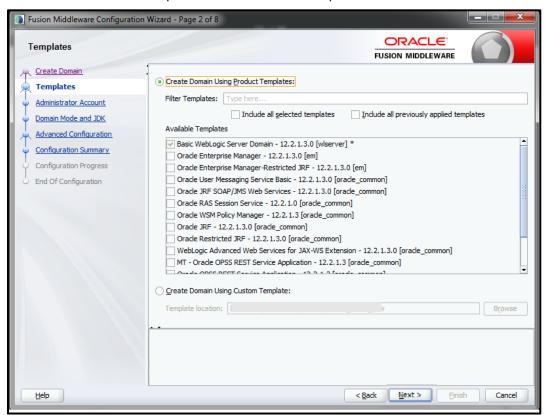
NOTE: Name need not to be same as provided in Screenshot.

- Open /oracle_common/common/bin and run config.cmd (or .sh if operating system is linux). Create domain with required cluster and server configurations. Refer to the screenshots below.
- 2. Select **Create a new domain** and provide domain name. For example, **platoinfra_domain**.

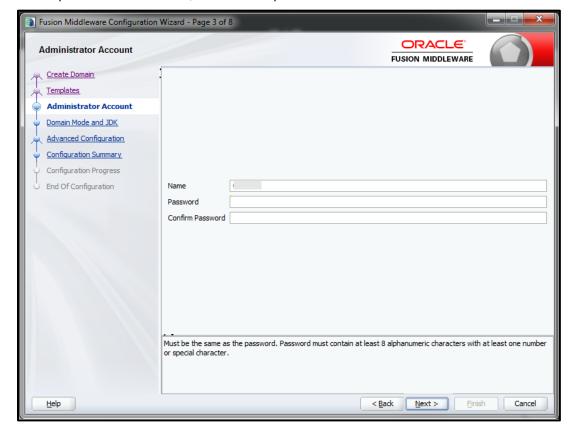




3. Click **Next** to create simple domain with default templates.

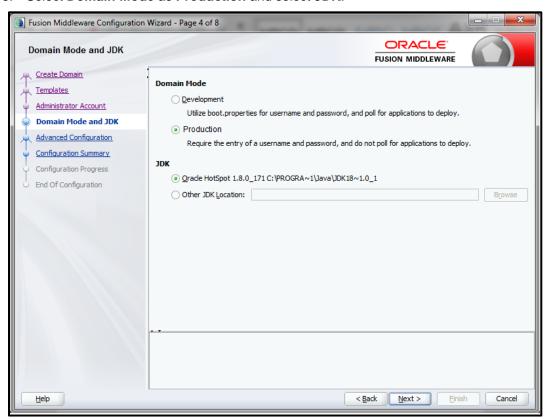


4. Set password and confirm, click **Next** to proceed.

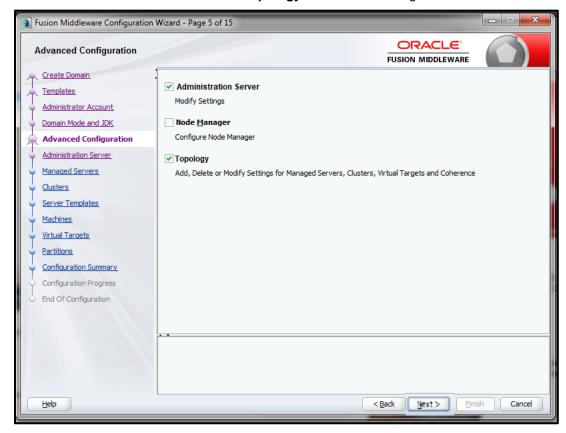




5. Select Domain Mode as Production and select JDK.

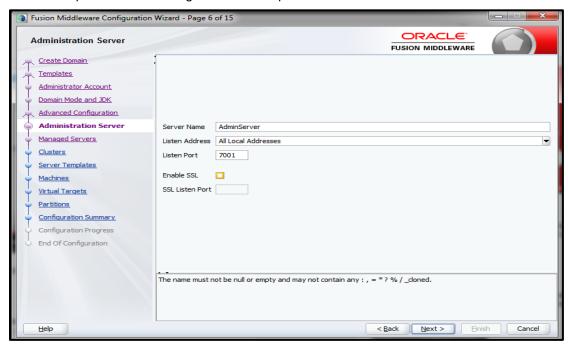


6. Select **Administration Server** and **Topology** in advanced configurations.

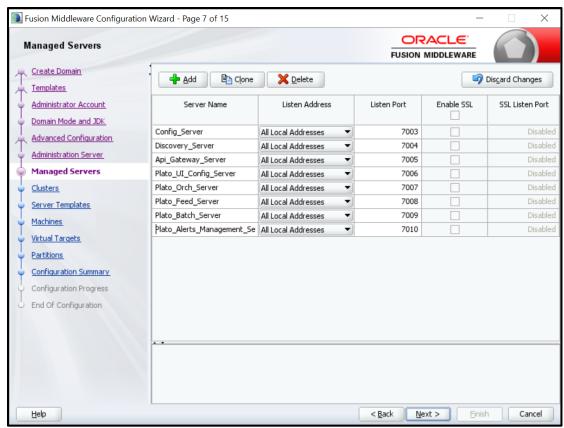




7. Edit the port and host configurations as required and click **Next**.

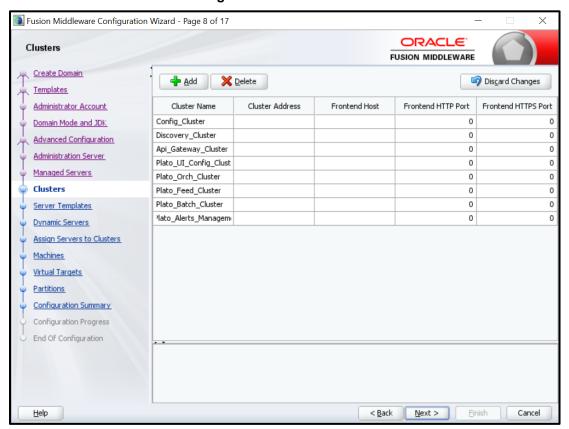


8. Add managed servers and provide meaningful **Server Name**, edit listen address and port as required.





9. Add clusters one for each managed servers.

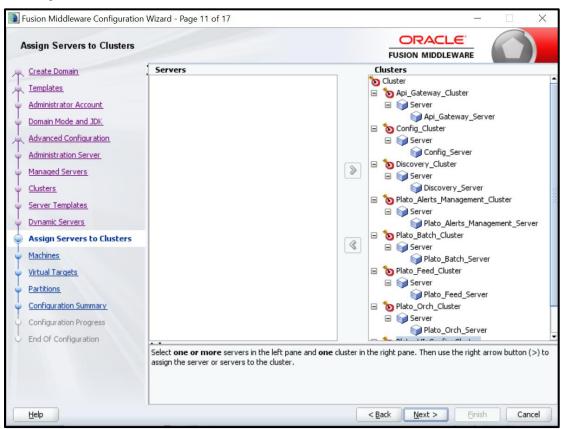


10. Skip Server Templates and Dynamic Servers.

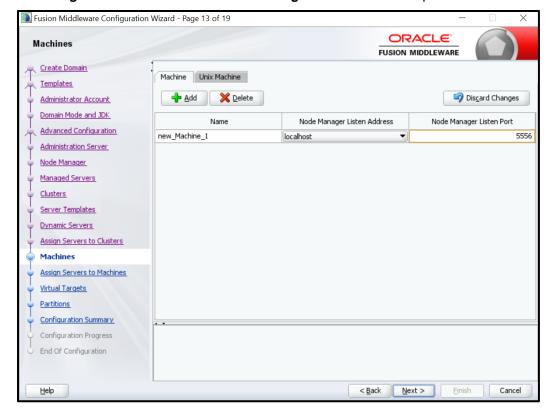




11. Assign clusters with servers.

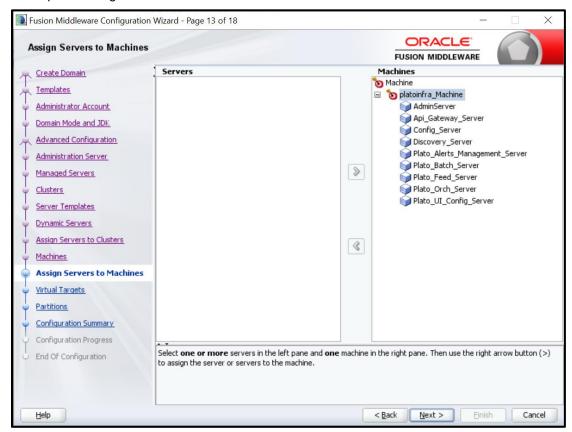


12. Add Machine/Unix Machine based on operating system and configure Name, Node Manager Listen Address and Node Manager Listen Port as required.

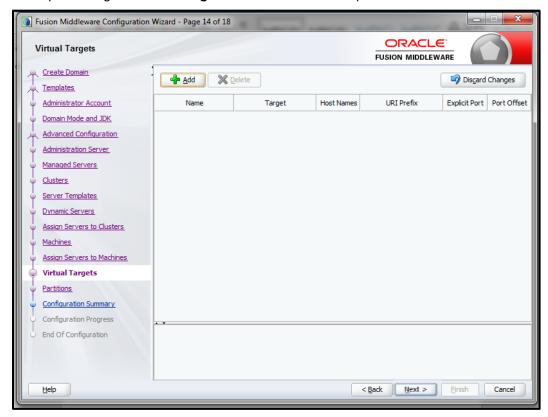




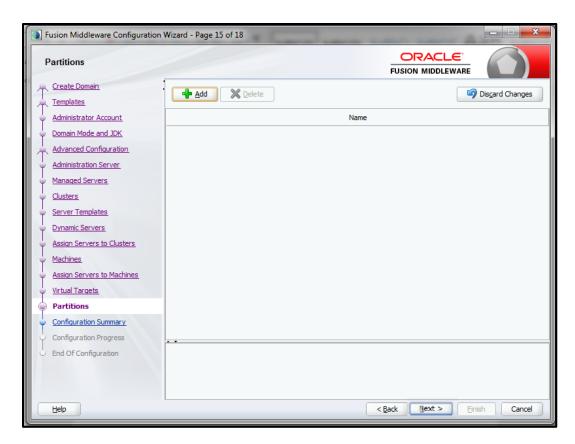
13. Map all managed servers under the machine created.



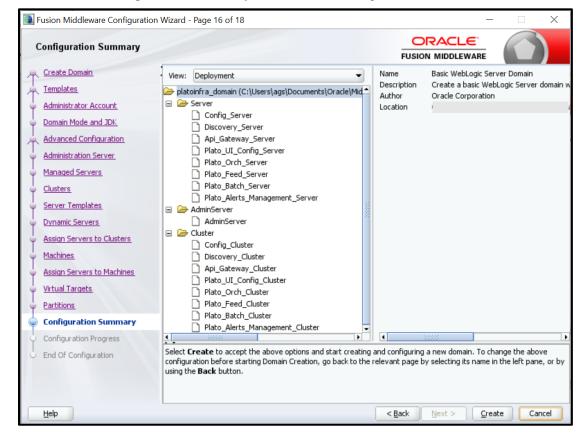
14. Skip or configure Virtual Targets and Partitions as required.



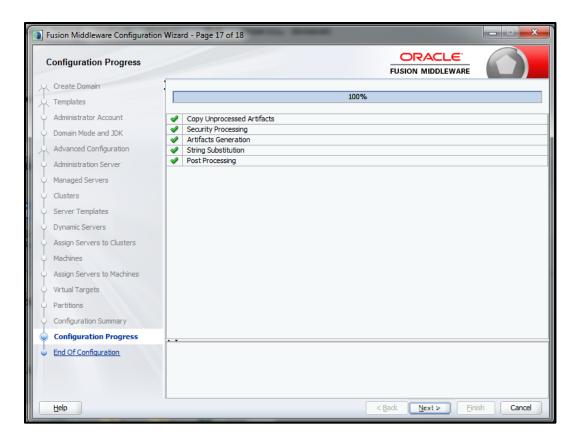




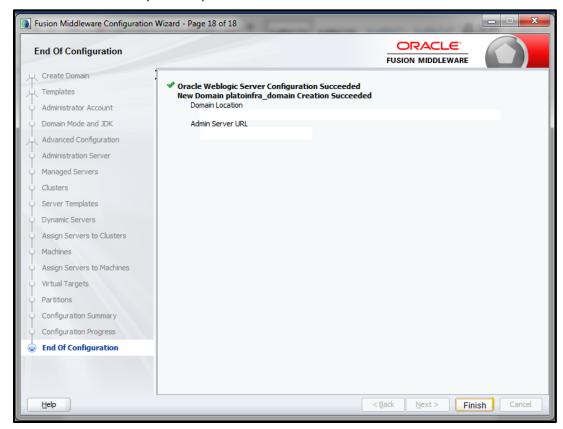
15. Check the Configuration Summary and confirm creating domain.







16. Click Finish to complete the procedure.





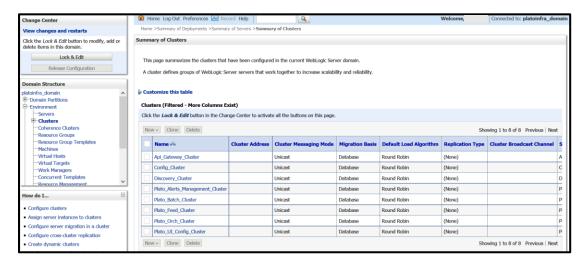
1.3.2 Post Domain Creation Configurations

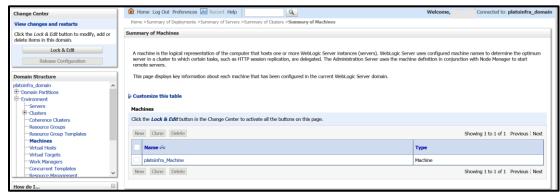
Once finished, refer oracle fusion middleware documents for more details on how to start admin server, node manager and managed servers.

- 1. Open /user_projects/domain/platoinfra_domain/bin
- Perform all the Environment Setup steps such as setting -D parameters, Embedded Weblogic Setup and changes required for OAuth.
- 3. Run **startWeblogic.cmd** (or **.sh** if operating system is linux).
- 4. Open /user_projects/domains/platoinfra_domain/bin.
- 5. Run **setNMJavaHome.cmd** (or **.sh** if operating system is linux).
- 6. Open /user_projects/domains/platoinfra_domain/nodemanager.
- 7. Edit **nodemanager.properties** as required (securelistner = false if ssl and keystore is not given).
- 8. In admin console, select the following options in sequential order:
- a. Machines
- b. platoinfra_Machine
- c. Node Manager
- d. Type
- e. Plain
- f. Save
- 9. Open /user projects/domains/platoinfra domain/bin.
- 10. Run startNodeManager.cmd (or .sh if operating system is linux)
- 11. Start all managed servers.
- 12. Login to console and verify servers and clusters. Refer to the screenshots below:









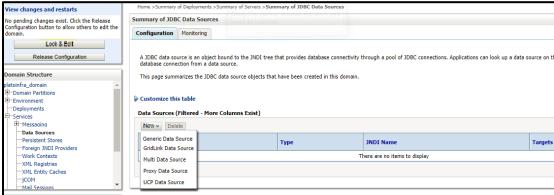


1.4 How to Create Datasource

Perform the following steps to create data source:

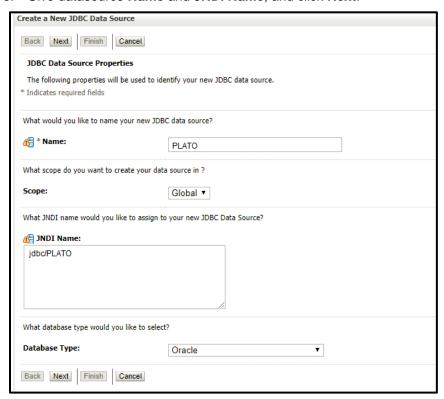
- Start AdminServer, Node Manager and make sure all the managed servers (targets) are in running mode.
- 2. Select the following options in sequential order:
- a. Services
- b. Datasources
- c. New
- d. Generic Datasource



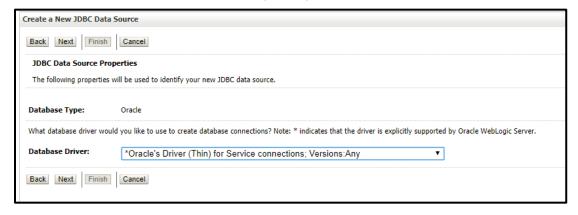




3. Give datasource Name and JNDI Name, and click Next.

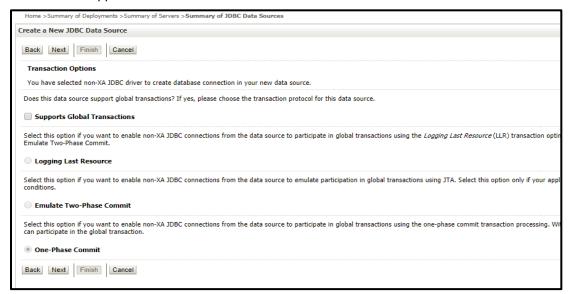


4. Select Thin for Service Connections (Instant) and click Next.

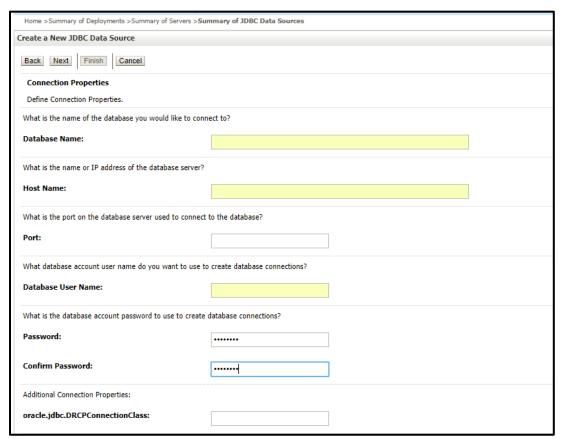




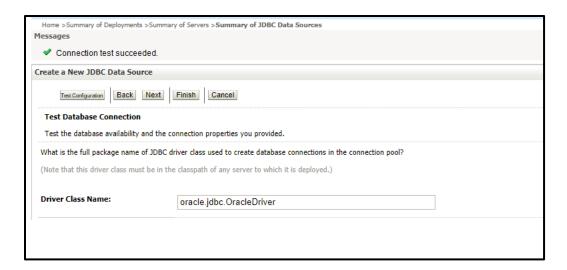
5. Uncheck support for Global Transactions.



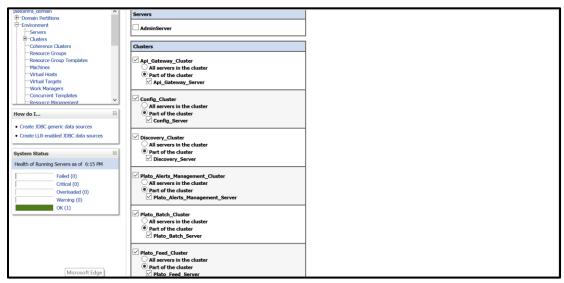
6. Give database connection details and click **Next** to test connection.



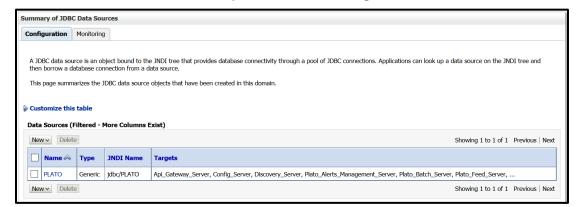




7. Select targets to deploy data source.

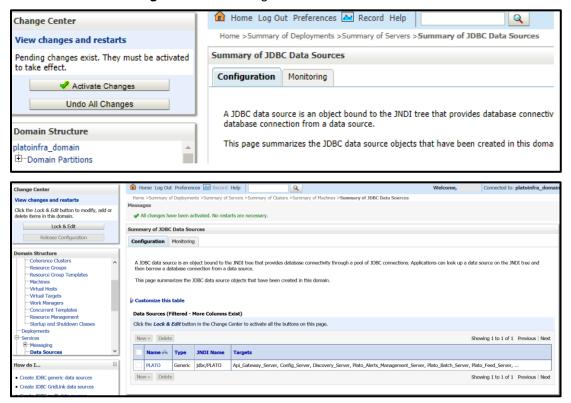


8. View created **Data Sources**, verify **JNDI Name** and **Targets**.





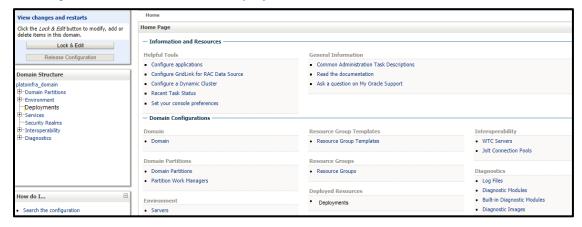
9. Click Activate Changes after confirming details.



1.5 How to Deploy Application

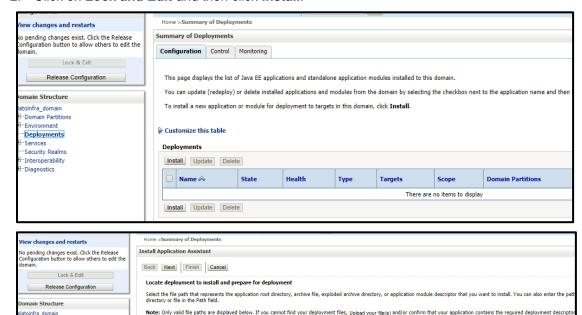
Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain, where we deploy will differ. Perform the following steps to see how deployment of archive as application is done on weblogic:

Navigate to left menu and select **Deployments**.





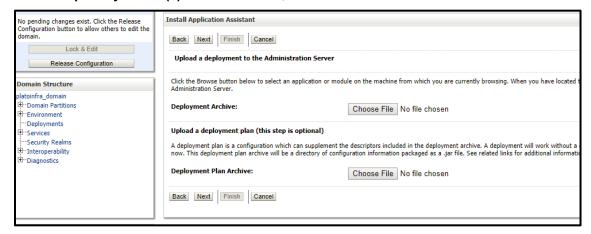
2. Click on Lock and Edit and then click Install.



3. Click Upload your file(s) to select archive, Choose File and click Next.

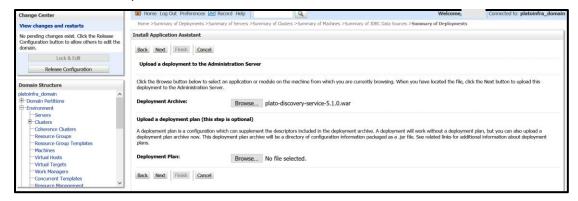
localhost \

Recently Used Paths: Current Location:



4. After archive is uploaded, click Next.

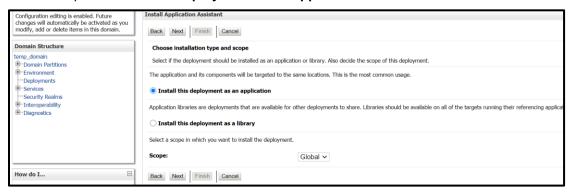
atoinfra_domain



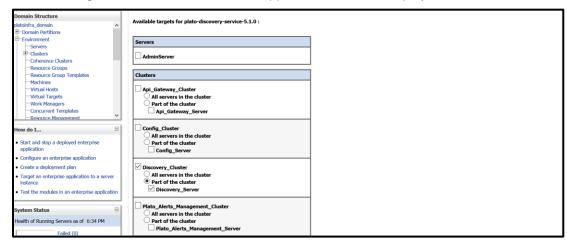




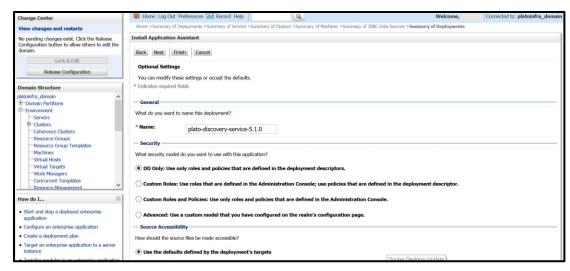
5. Select option Install this deployment as an application and click Next.



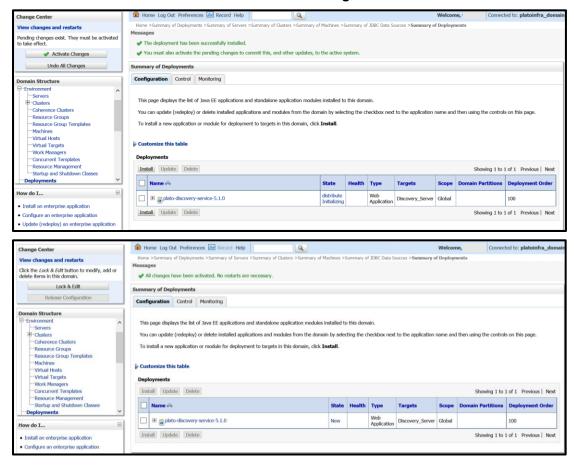
6. Select target servers/clusters on which application has to be deployed and the **Next**.





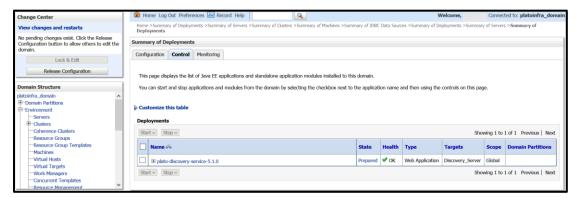


7. Click Finish and then click Save and Activate Changes.

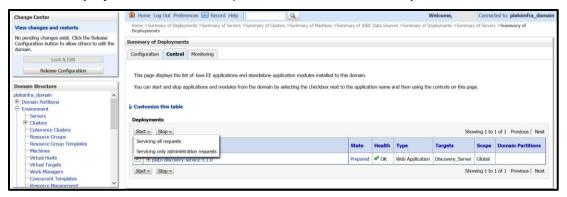




8. Click **Deployments** and then **Control** to changes the state of application from prepared to active status.



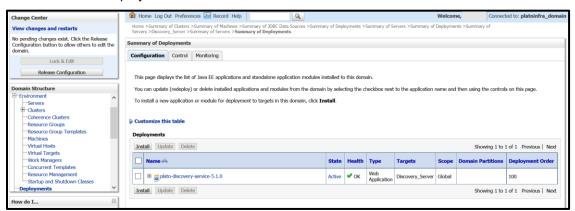
9. Under **Deployment**, click **Start** dropdown and select **Start all requests**.



10. Click Yes.



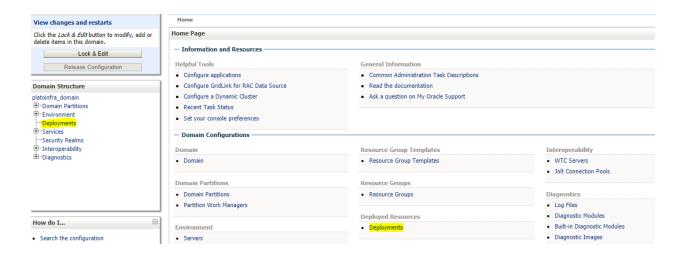
11. The status is displayed as **Active in the state column.**





1.6 How to Undeploy application:-

1. Login into with weblogic server with proper credentials. Post login, go to **Deployments** section

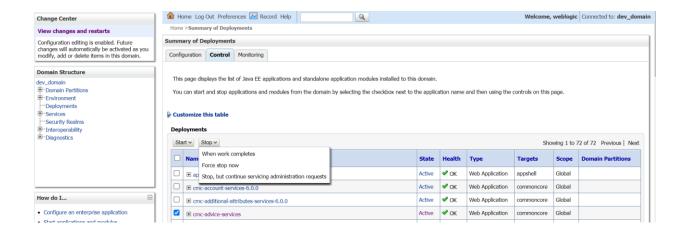


2. Click on **Lock and Edit** and then select the service that needs to be undeployed in Deployments.

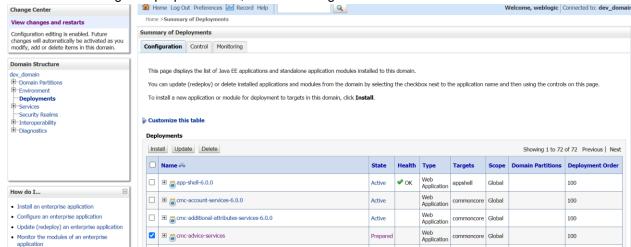


3. Click on Control. Click on Force stop now under Stop.





4. Once it changes to prepared state, click on Configuration.



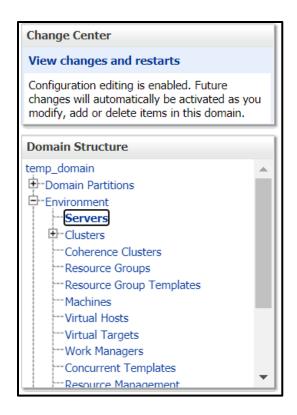
12. Select the service again and click on Delete to undeploy the service.

1.7 How to Restart Servers

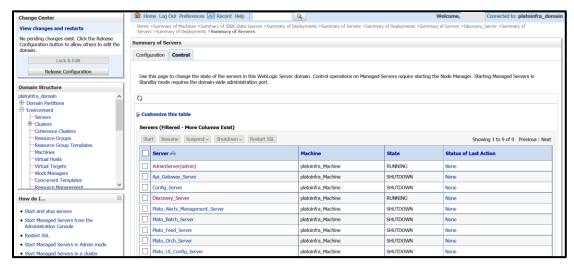
Perform the following steps to restart servers:

1. Navigate to left menu and select **Environment**, and then click **Servers**.

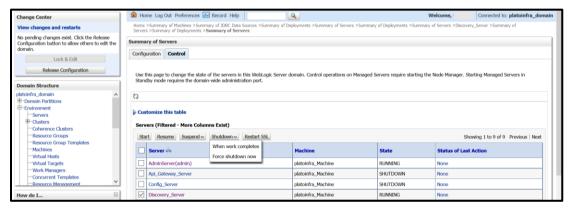




2. Click **Control** tab.



3. Select servers to **Shutdown**

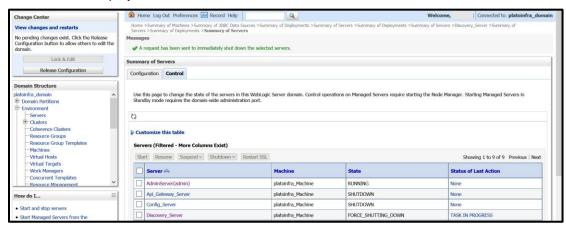




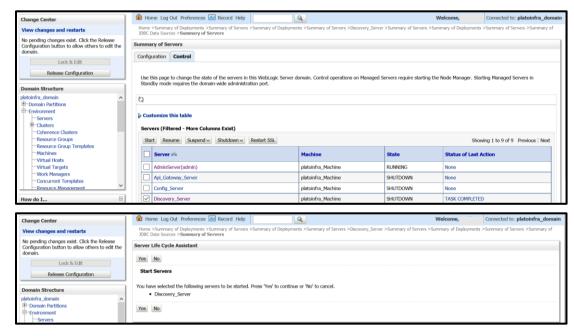
4. Click Yes to confirm shutdown.



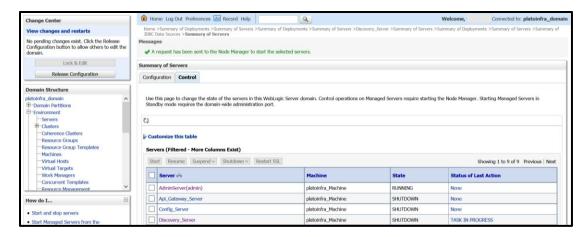
5. The status displayed as shown below:



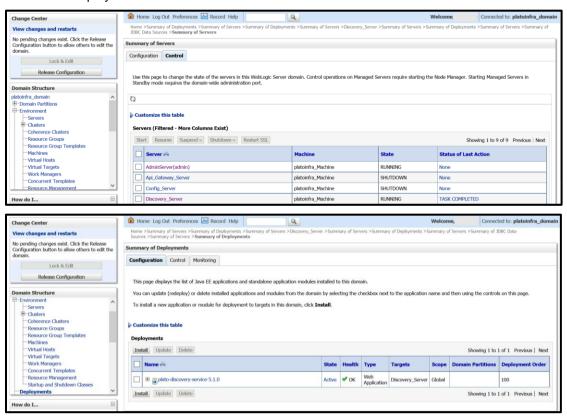
6. Once shutdown is completed, navigate to **Control**, select the servers to **Start**, and click **Yes** to confirm action.







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



1.8 How to Check Port Number

Perform the following steps to check port numbers:

- 1. Specify the User id and Password, and login to WebLogic console.
- 2. Click Environment and then click Server.





Under Servers (Filtered - More Columns Exist) section, you will be able to see all the server listed.

		Name 🙈	Туре	Cluster	Machine	State	Health	Listen Port
l		AdminServer(admin)	Configured			RUNNING	⊘ OK	7020
l		managed_server1	Configured		Machine 1	RUNNING	⊘ OK	7023

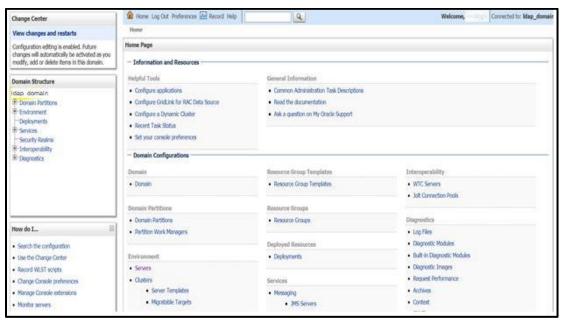
1.9 Weblogic Embedded LDAP Setup

The following changes are to be made for configuring the Weblogic-Embedded LDAP server for PLATO:

- Configuration of Weblogic LDAP
- Creation of Users
- Plato Security Config Table Entries

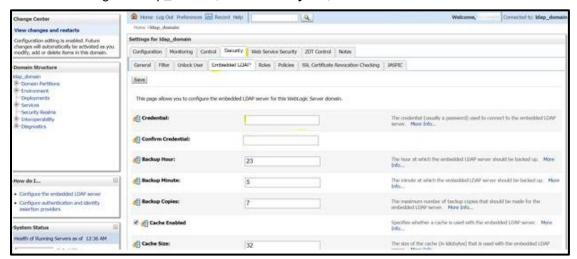
1.9.1 Configuration of Weblogic LDAP

1. Open the **Administration Console** for the **Weblogic**, and click domain name in left panel.

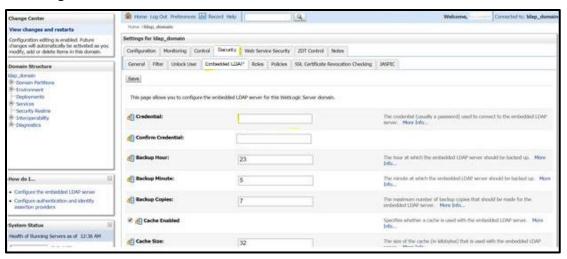




2. Under Settings for Idap_domain, click Security tab, and then click Embedded LDAP tab.

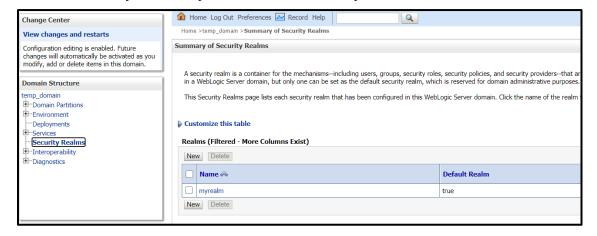


 Set the Credential for Weblogic Embedded LDAP store. This is needed in the Security Config table.



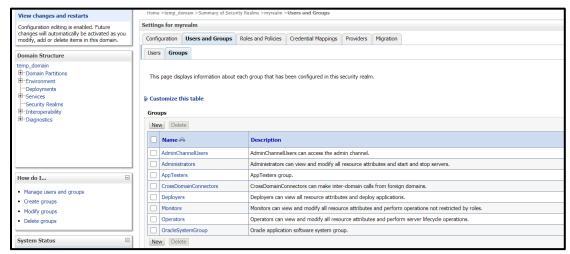
1.9.2 Creation of Users

- 1. Navigate to left menu, and click Security Realms.
- 2. In the Summary of Security Realms window, click myrealm.

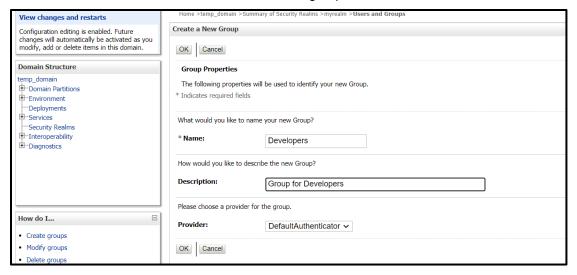




- 3. Under Settings for myrealm, click Users and Groups.
- 4. Click **Groups** tab. Click **New** to make a new group.



5. Add the relevant details and click **OK**. The new group will be created.

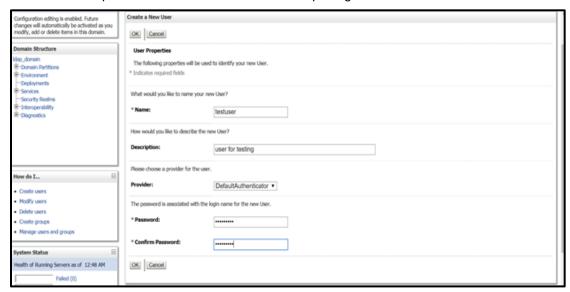


6. Click **Users** tab, and click **New** to create user.

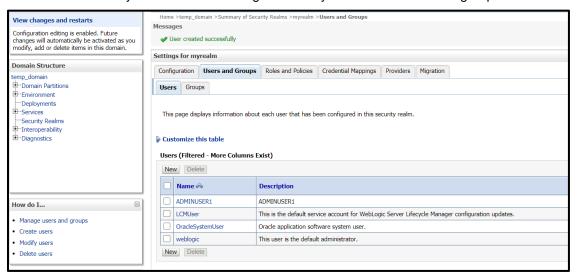




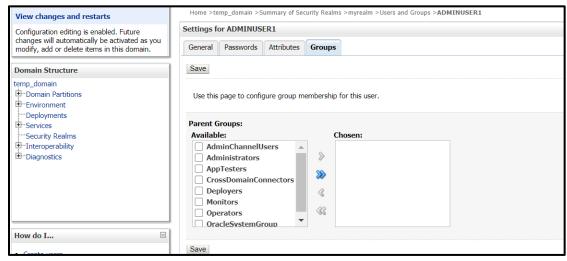
7. Enter the required details for the user. After completing click **OK**. The user will be created.



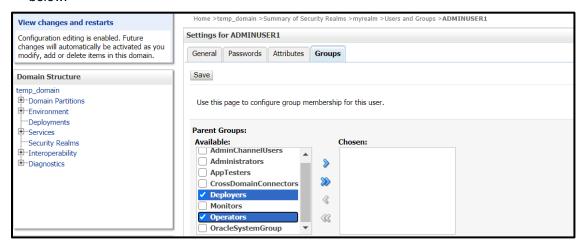
8. Click on the newly created user to assign the newly created user to some group.



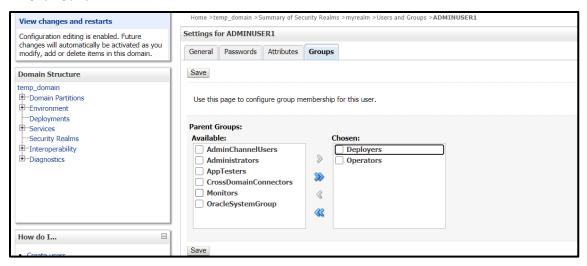
 Under Setting for ADMINUSER1 (or whatever your user's name is) window, click Groups tab.



Select the groups you want to assign to the user and click single right button as shown below.



11. Click Save.



1.9.3 Plato Security Config Table Entries

Connection details for the embedded LDAP of weblogic (assuming the admin server is running on 10.99.99.10:7001) are given below:

Connection Details:

URL: Idap:// 10.99.99.10:7001

Server Base: dc={DOMAIN_NAME} (in our case it would be dc=ldap_domain)

User Search Base: ou=people,ou=myrealm

Server User: cn=admin

Server Credentials: As setup in step Point 3 under 1.8.1

Security Config Table Entries:

ID	VALUE	Description
LDAP_URL	ldap:// 10.99.99.10:7001	Valid LDAP Server address with port.
LDAP_SERVER_USER	cn=admin	LDAP server login username



ID	VALUE	Description
LDAP_SERVER_BASE	dc=ldap_domain	LDAP Server Base
LDAP_SERVER_CREDENTIAL	ylksiMFfjVbfcpA7Qheh8Q==	LDAP server credentials in encrypted form(For Encryption steps, refer to Encrypted Utility section below)
LDAP_USER_SEARCH_BASE	ou=people,ou=myrealm	LDAP User Search Base
LDAP_PROVIDER	EMBEDDED_WEBLOGIC	Which LDAP Provider to be used. Also, if this row is not present in this table, then In-House Spring Plato LDAP will be used.

1.10 Oracle Analytic Server Setup

This section contains the following sub-sections:

- Prerequisite
- Start BI Server
- Upload BI Reports
- Test BI Reports

1.10.1 Prerequisite

Perform the following steps:

- Machine should have Java JDK1.8.0_271 has installed
- Oracle Analytics Server 5.5.0

1.10.2 Start BI Server

Perform the following steps to start BI server:

- 1. Start the weblogic server and analytics server.
- 2. Check the weblogic console whether analytics server is running.



1.10.3 Upload BI Reports

Perform the following steps to upload BI reports:

- 1. Login to the Analytics server console.

Catalog Object	Extensions Supported
Data Model	.xdmz
Folder	.xdrz
Report	.xdoz
Style Template	.XSSZ
Subtemplate	.xsbz

3. Upload the catalog object to Analytics Server.

1.10.4 Test BI Reports

Perform the following steps to generate BI reports:

- 1. Open the application, and go the **Reports** section of the application.
- 2. Choose the report generation criteria. For example, **Start Date** or **End Date**.
- 3. Choose the format of the report.
- 4. Generate the report.

NOTE: If the format of the report selected is PDF, a PDF report will be generated.





ANNEXURE - 1

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