

Configuration and Deployment Guide
Oracle Banking Electronic Data Exchange for Corporates
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Configuration and Deployment Guide

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Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax:+91 22 6718 3001

www.oracle.com/financialservices/

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1. Configuration and Deployment

1.1 Introduction

This guide is a supporting document for the installation of Oracle Banking Microservices Architecture applications. You can find the reference in the respective installation guides.

1.2 Placeholder Update for Oracle Banking Microservices Architecture 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 Oracle Banking Microservices Architecture 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:

- 1) JAVA_OPTIONS="{JAVA_OPTIONS} -DParam =<ParamValue>"
 - 2) 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>/plato
-discovery-service/eureka

-Dplato.services.entityservices.port= <PLATO_ORCH_SERVICE_PORT>

-Dplato.service.logging.path= <LOGGING PATH>

-Dspring.cloud.loadbalancer.ribbon.enabled=false

-Dspring.main.allow-circular-references=true

//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_ROUTER_HOSTNAME>

-Dflyway.domain.placeHolders.apigateway.port= <APIGATEWAY_ ROUTER
_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 >

-Dplato-api-gateway.enableAudit=true

//Plato Discovery Service

-Dflyway.domain.placeHolders.plato-discovery-
service.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-ui-
config.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-ui-
config.schemas=<UICONFIG_SCHEMA_NAME>

//Plato Apigateway Router Service

-Dflyway.domain.placeHolders.plato-apigateway-router.server.port=
<APIGATEWAY_ROUTER_PORT>

-Dflyway.domain.placeHolders.plato-apigateway
router.router.protocol=<ROUTER_PROTOCOL>

-Dflyway.domain.placeHolders.plato-apigateway-
router.router.meadmin.port=<ROUTER_PORT>

//Plato Feed Services

-Dflyway.domain.placeHolders.plato-feed-
services.feed.upload.directory=<FEED_SERVICE_UPLOAD_PATH>

-Dflyway.domain.placeHolders.plato-feed-
services.server.port=<FEED_SERVICE_PORT>

-Dflyway.domain.placeHolders.plato-feed-
services.username=<FEED_DB_USERNAME>

-Dflyway.domain.placeHolders.plato-feed-
services.password=<FEED_DB_PASSWORD>

-Dflyway.domain.placeHolders.plato-feed-services.jdbcUrl=<FEED_DB_URL>

-Dflyway.domain.placeHolders.plato-feed-
services.schemas=<FEED_SCHEMA_NAME>

//Plato Batch Server

-Dflyway.domain.placeHolders.plato-batch-
server.server.port=<BATCH_SERVER_PORT>

-Dflyway.domain.placeHolders.plato-batch-
server.plato.eventhub.kafka.brokers=<EVETNHUB_KAFKA_BROKERS>

-Dflyway.domain.placeHolders.plato-batch-server.plato.eventhub.zk.nodes=<ZK_NODES>

-Dflyway.domain.placeHolders.plato-batch-server.username=<BATCH_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.plato-batch-server.password=<BATCH_SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.plato-batch-server.jdbcUrl=<BATCH_SCHEMA_URL>

-Dflyway.domain.placeHolders.plato-batch-server.schemas=<BATCH_SCHEMA_NAME>

// Plato-Alerts-Management-Services

-Dflyway.domain.placeHolders.plato-alerts-management-services.server.port=<ALERTS-MANAGEMENT-SERVER-PORT>

-Dflyway.domain.placeHolders.plato-alerts-management-services.plato.eventhub.kafka.brokers=<EVENTHUB_KAFKA_BROKERS>

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

//Plato Orch Service

-Dflyway.domain.placeHolders.plato-orch-service.server.port=<ORCH_SERVICE_PORT>

-Dflyway.domain.placeHolders.plato-orchestrator.hostname=<CONDUCTOR-EUREKA-HOSTNAME >

//Conductor

-Dconductor.properties=<CONDUCTOR_CONFIG_FILE_PATH>

//Plato Regional Configurator Service

-Dflyway.domain.placeHolders.plato-regional-configurator-services.server.port=<REGIONAL_CONFIGURATOR_SERVICE_PORT>


```
-Dflyway.domain.placeholders.plato-regional-configurator-services.locations =  
  - "db/migration/domain/obrc" (By default)  
  - "db/migration/domain/obrc, db/migration/domain<YOUR DOMAINS>"  
  
-Dflyway.domain.placeholders.plato-regional-configurator-services.schemas =  
"OBRC"  
  
-Dflyway.domain.placeholders.plato-regional-configurator-services.db.jndi =  
"jdbc/OBRC"  
  
-Dflyway.domain.placeholders.plato-regional-configurator-  
services.username=<OBRC_SCHEMA_USERNAME>  
  
-Dflyway.domain.placeholders.plato-regional-configurator-  
services.password=<OBRC_SCHEMA_PASSWORD>
```

//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.

Summary of Servers

Configuration Control

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.
This page summarizes each server that has been configured in the current WebLogic Server domain.

[Customize this table](#)

Servers (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Clone Delete Showing 1 to 2 of 2 Previous | Next

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured		whf00dlcx	RUNNING	OK	7001
managed1_server	Configured		whf00dlcx	RUNNING	OK	7003

New Clone Delete Showing 1 to 2 of 2 Previous | Next

2. Select **Server Start** tab in the next screen.

Settings for managed1_server

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Concurrency Health Monitoring **Server Start**

Web Services Coherence

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Save

Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup settings that Node Manager will use to start this server on a remote machine.

Java Home: The Java home directory (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Java Vendor: The Java Vendor value to use when starting this server. [More Info...](#)

BEA Home: The BEA home directory (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Root Directory: The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. [More Info...](#)

Class Path: The classpath (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

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

Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup settings that Node Manager will use to start this server on a remote machine.

Java Home: The Java home directory (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Java Vendor: The Java Vendor value to use when starting this server. [More Info...](#)

BEA Home: The BEA home directory (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Root Directory: The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. [More Info...](#)

Class Path: The classpath (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Arguments: The arguments to use when starting this server. [More Info...](#)

```
-Deureka.server.enable-self-preservation=false
-Dspring.flyway.enabled=false -Dflyway.enabled=false
-Deureka.client.serviceUrl.defaultZone=http://whf00dkx:7003
/plato-discovery-service/eureka -Dserver.port=7003
```

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}"

```

2. 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/migration/
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

spring.cloud.loadbalancer.ribbon.enabled=false

spring.main.allow-circular-references=true

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-apigateway-router flyway placeholder entries

flyway.domain.placeholders.plato-apigateway-router.server.port=

flyway.domain.placeholders.plato-apigateway-router.router.protocol=

flyway.domain.placeholders.plato-apigateway-router.router.meadmin.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 jndi 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=
flyway.domain.placeholders.platoorch.domain.jndi=jdbc/PLATO-O
flyway.domain.placeholders.platoorch.domain.schemas=
flyway.domain.placeholders.plato.alerts.email.userId=
flyway.domain.placeholders.plato.alerts.email.password=
flyway.domain.placeholders.plato.alerts.cmc.userId=
flyway.domain.placeholders.plato.alerts.cmc.branchCode=
flyway.domain.placeholders.plato.alerts.cmc.appId=
flyway.domain.placeholders.plato-rule.hostname=
flyway.domain.placeholders.plato-rule-service.server.port=
flyway.domain.placeholders.platorule.domain.jndi=
flyway.domain.placeholders.platorule.domain.schemas=
flyway.domain.placeholders.obrh.import.data.disable-modify=
flyway.domain.placeholders.cmc-obrh-services.kafka.server.path=
flyway.domain.placeholders.cmc-obrh-services.zookeeper.server.path=
flyway.domain.placeholders.cmc.schemas=
flyway.domain.placeholders.cmc-nlp-opennlp-services.server.port=
flyway.domain.placeholders.cmc-nlp-maintenance-services.server.port=
flyway.domain.placeholders.cmc-nlp-pipeline-services.server.port=
flyway.domain.placeholders.cmc-nlp-docview-services.server.port=
flyway.domain.placeholders.cmc-ml-indb-services.server.port=
flyway.domain.placeholders.cmc-obrh-services.kafka.enabled=
flyway.domain.placeholders.cmc-sla-services.server.port=
flyway.domain.placeholders.cmc-obcbs-services.schemas=
flyway.domain.placeholders.obcbs.server.port=
flyway.domain.placeholders.orch.cmc.brn=

```
flyway.domain.placeholders.orch.cmc.user=
flyway.domain.placeholders.orch.enableDynamicAllocation=
flyway.domain.placeholders.orch.enableSLA=
flyway.domain.placeholders.report-service.server.port=
flyway.domain.placeholders.report-service.hostname=
flyway.domain.placeholders.report-service.domain.jndi=jdbc/PLATOREPORT
flyway.domain.placeholders.report-service.template-metadata-directory=
flyway.domain.placeholders.report-service.output-directory=
flyway.domain.placeholders.report-service.fop-config-file=
### 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.taskPriority}",

      "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": "OBTFFPM",

    "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",
```

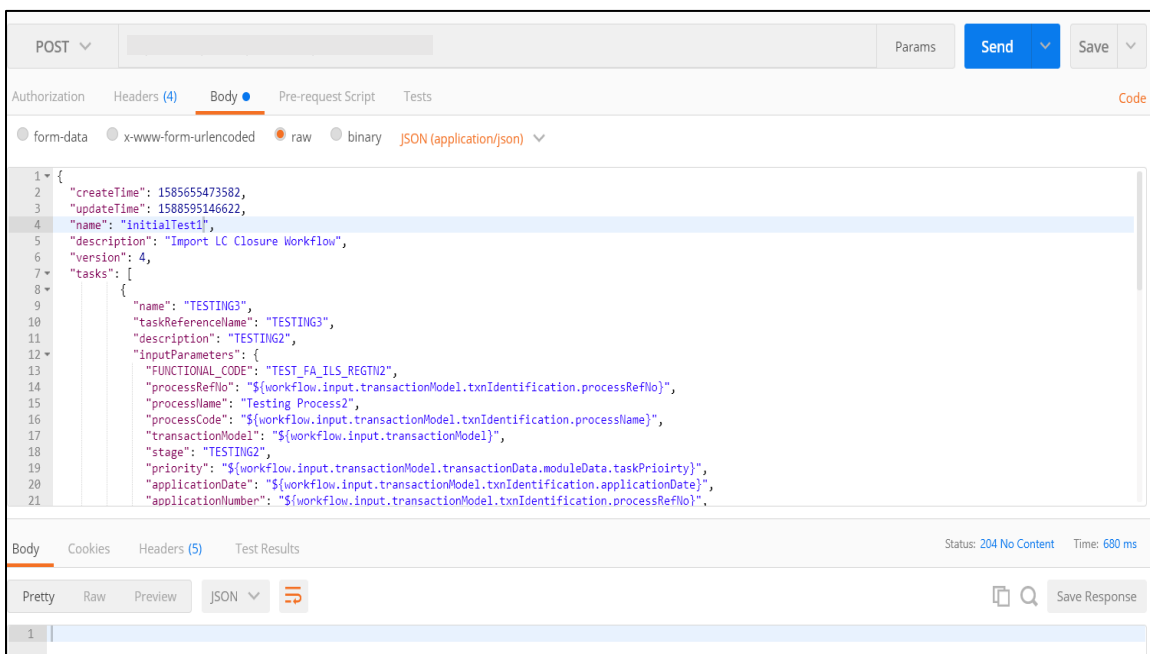


```

    "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.

Body:

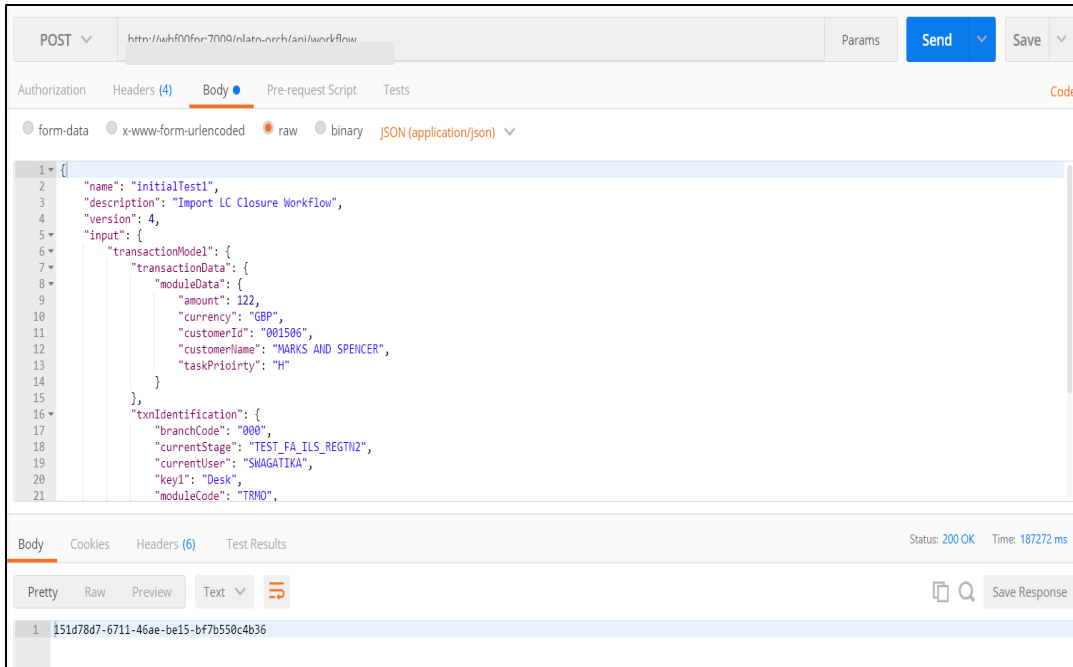
```

{
  "name": "initialTest",
  "description": "initialTest",
  "version": 4,
  "input": {

```

```
"transactionModel": {  
  "transactionData": {  
    "moduleData": {  
      "amount": 122,  
      "currency": "GBP",  
      "customerId": "001506",  
      "customerName": "MARKS AND SPENCER",  
      "taskPriority": "H"  
    }  
  },  
  "txnIdentification": {  
    "branchCode": "000",  
    "currentStage": "TEST_FA_ILS_REGTN2",  
    "currentUser": "SWAGATIKA",  
    "key1": "Desk",  
    "moduleCode": "TRMO",  
    "processName": "Testing Process2",  
    "processRefNo": "300ILCI012260",  
    "applicationDate": 1588582461960,  
    "taskOutcome": "PROCEED",  
    "taskPriority": "H"  
  }  
}
```

The following screen depicts the sample workflow:



1.3 How to Create Domain and Cluster Configuration

This section contains the following sub-sections:

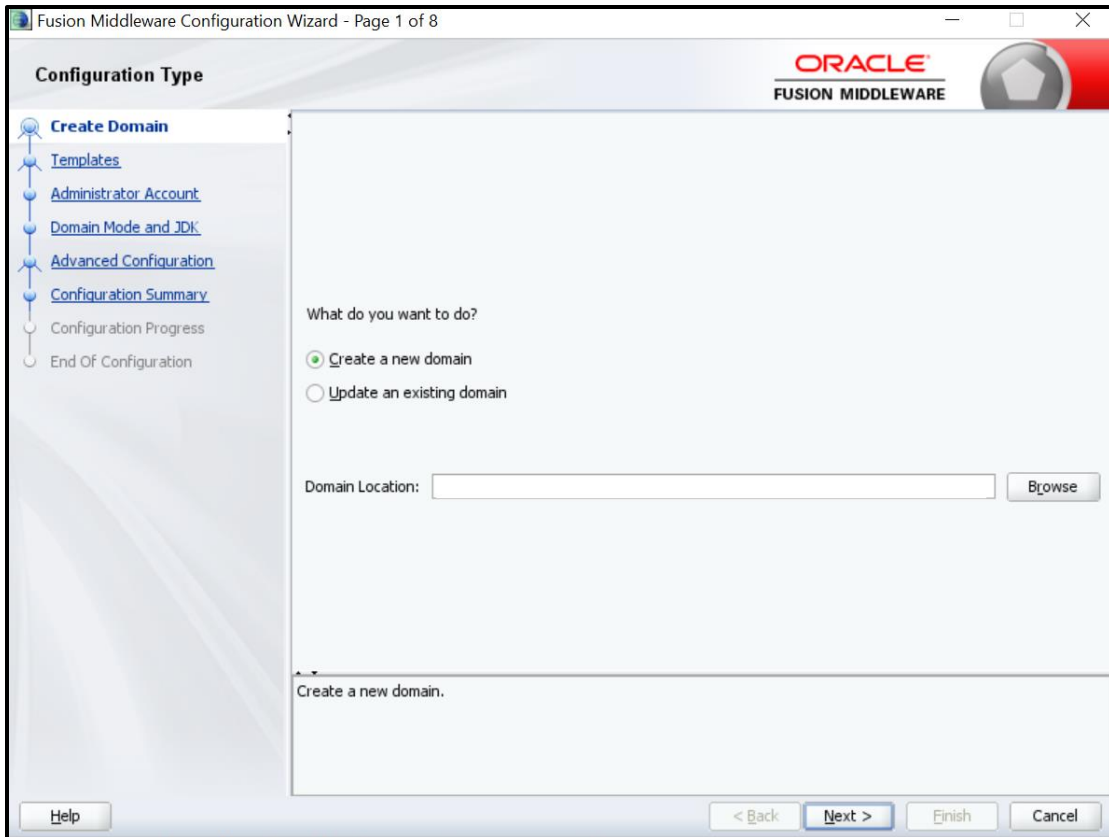
- Domain Creation Configuration
- Post Domain Creation Configurations

1.3.1 Domain Creation Configuration

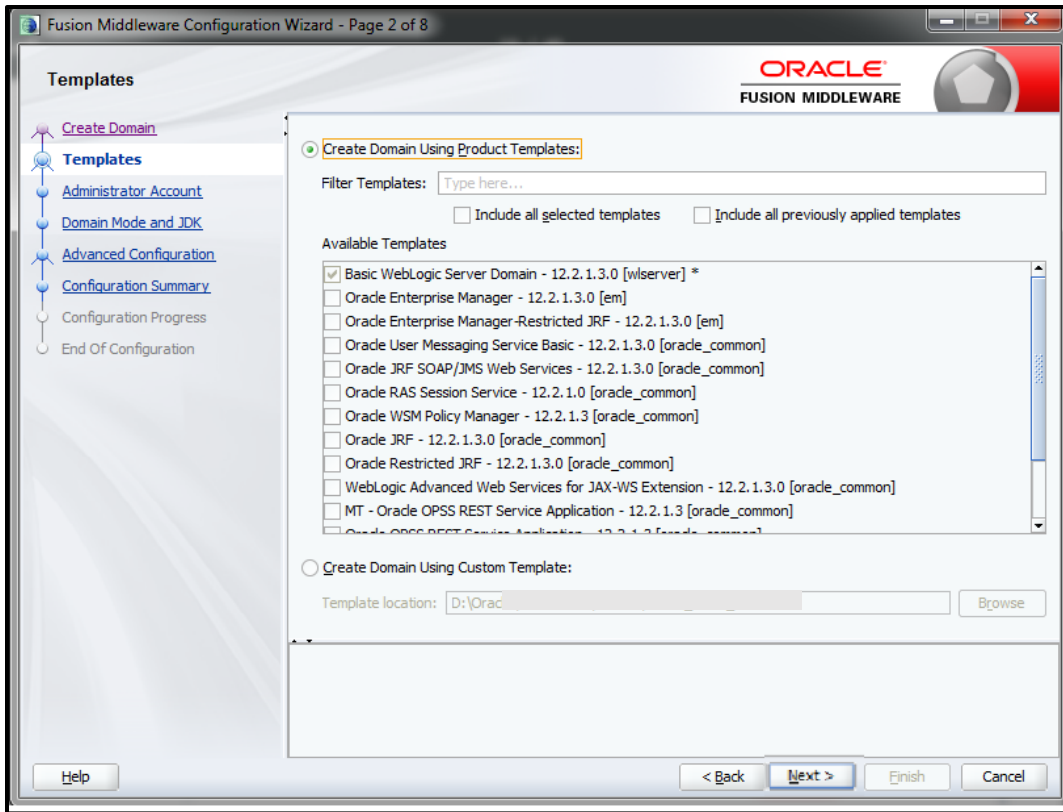
Perform the following steps for domain and cluster configuration:

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

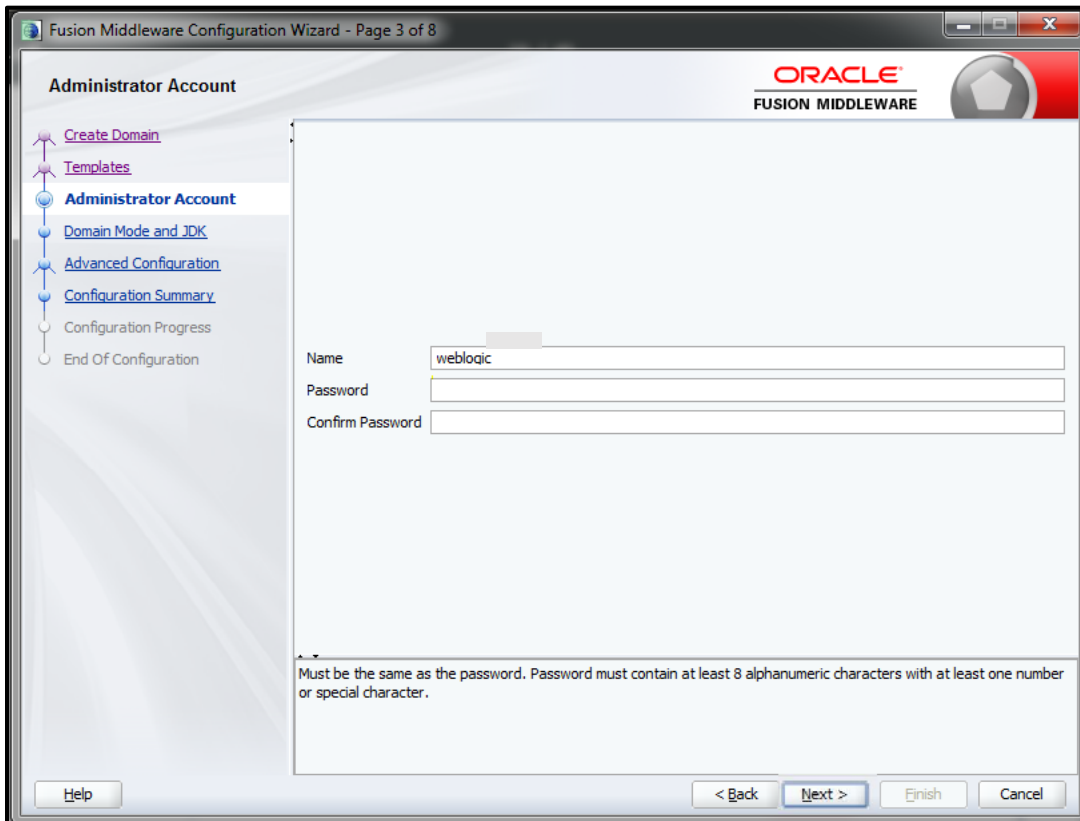
1. Open `/oracle_common/common/bin` and run `config.cmd` (or `.sh` if operating system is linux). Create domain with required cluster and server configurations. Refer to the screenshots below.
2. Select **Create a new domain** and provide domain name. For example, `platoinfra_domain`.



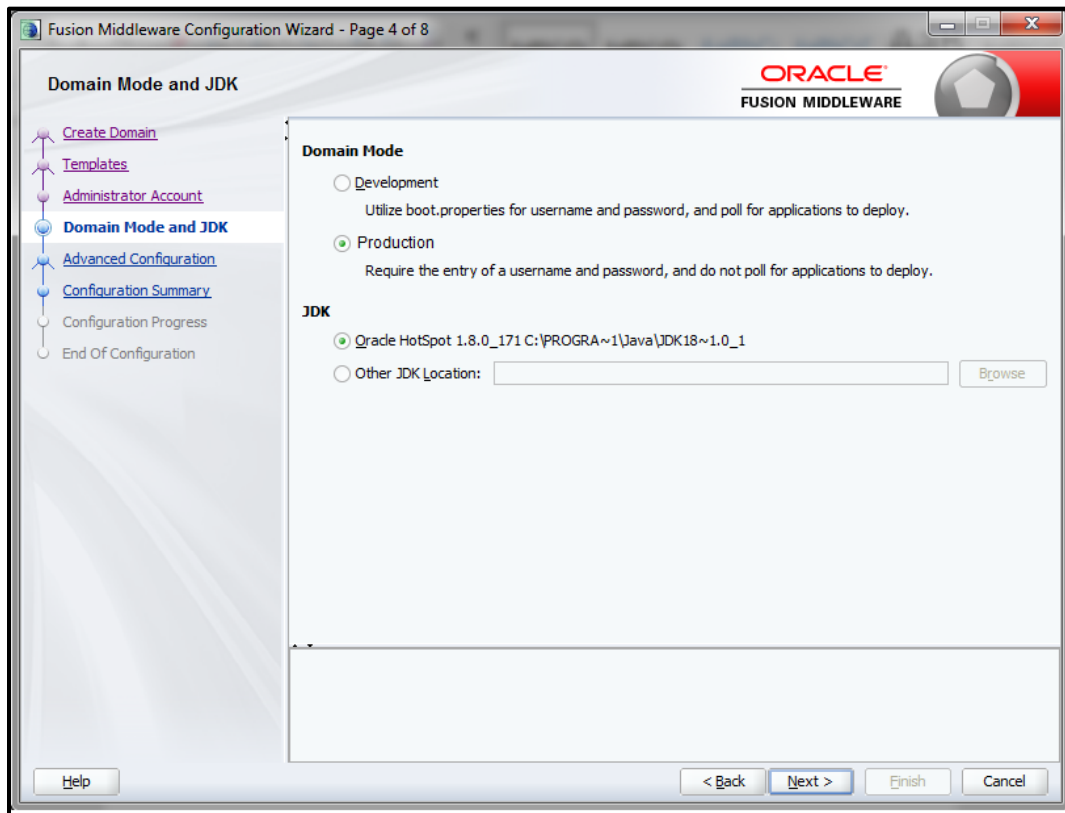
3. Click **Next** to create simple domain with default templates.



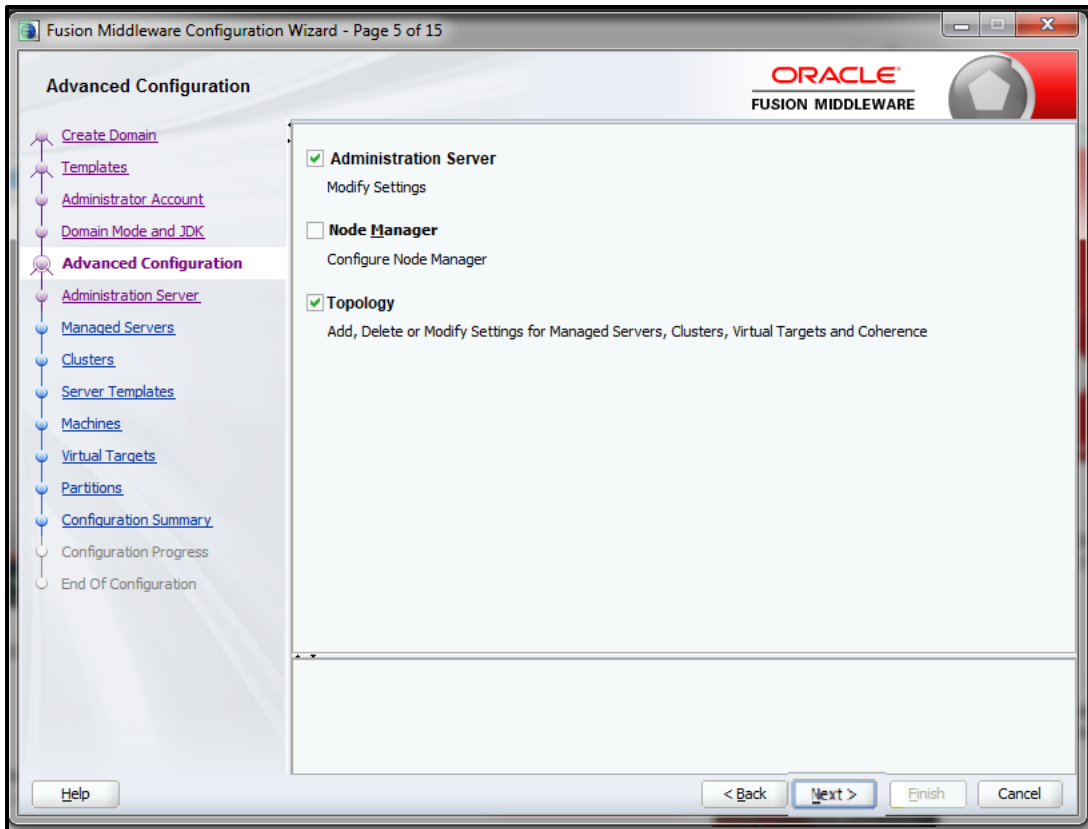
4. Set password and confirm, click **Next** to proceed.



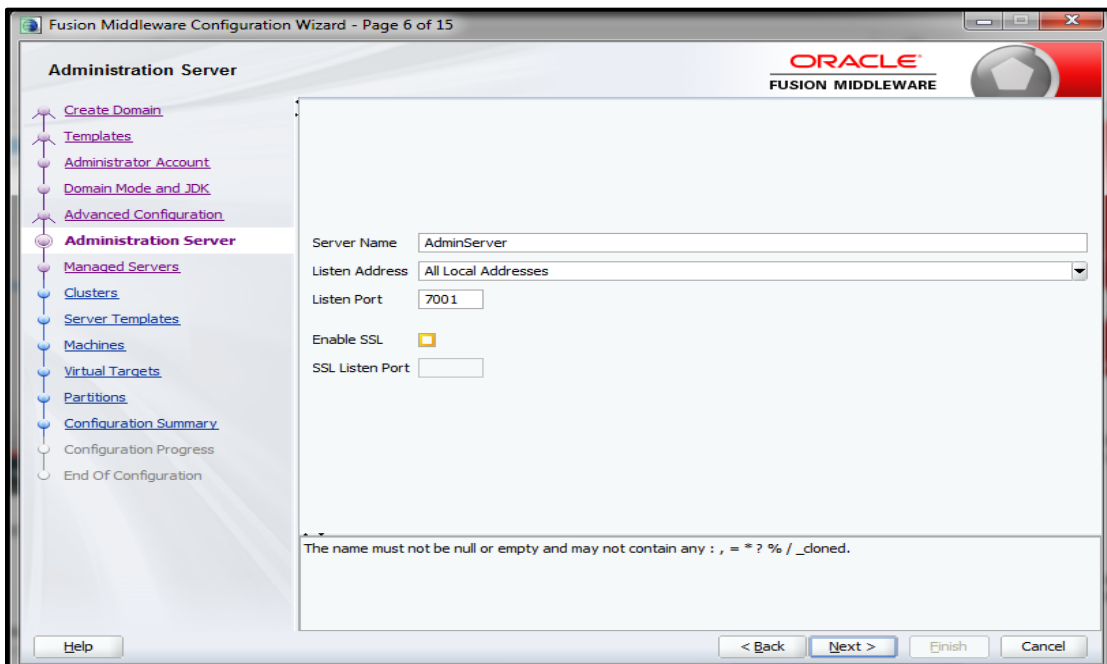
5. Select **Domain Mode** as **Production** and select **JDK**.



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.

Fusion Middleware Configuration Wizard - Page 7 of 15

Managed Servers

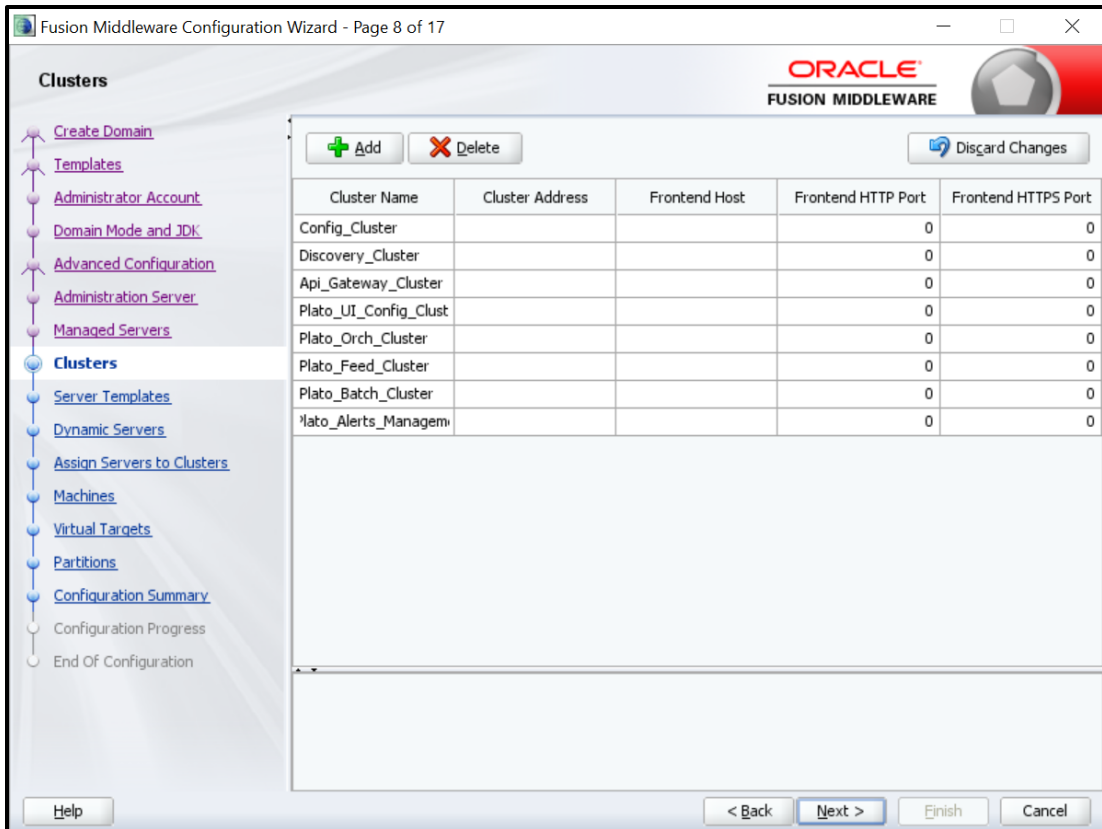
ORACLE
FUSION MIDDLEWARE

+ Add Clone X Delete Discard Changes

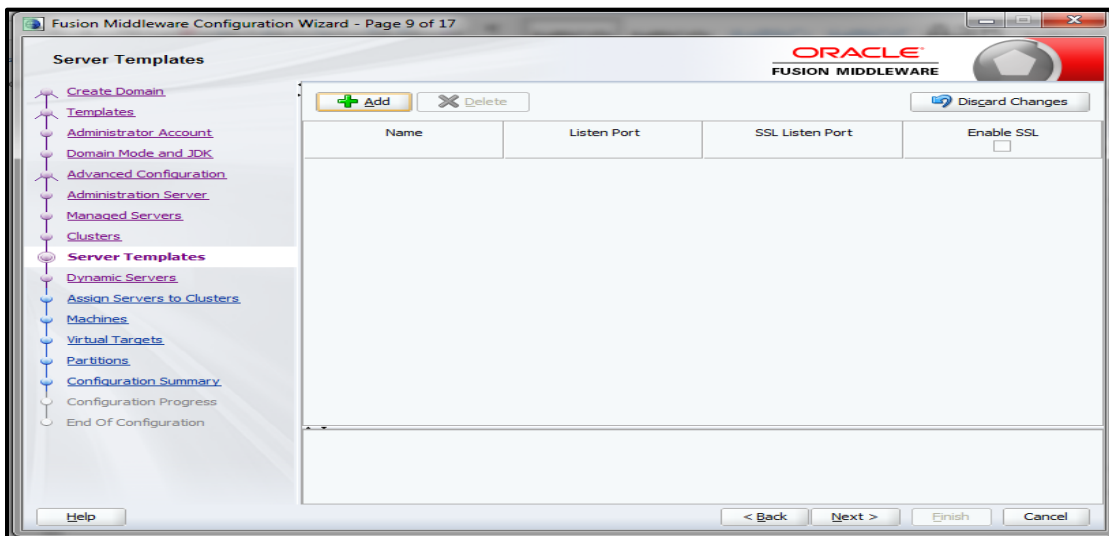
Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port
Config_Server	All Local Addresses	7003	<input type="checkbox"/>	Disabled
Discovery_Server	All Local Addresses	7004	<input type="checkbox"/>	Disabled
Api_Gateway_Server	All Local Addresses	7005	<input type="checkbox"/>	Disabled
Plato_UI_Config_Server	All Local Addresses	7006	<input type="checkbox"/>	Disabled
Plato_Orch_Server	All Local Addresses	7007	<input type="checkbox"/>	Disabled
Plato_Feed_Server	All Local Addresses	7008	<input type="checkbox"/>	Disabled
Plato_Batch_Server	All Local Addresses	7009	<input type="checkbox"/>	Disabled
Plato_Alerts_Management_Se	All Local Addresses	7010	<input type="checkbox"/>	Disabled

Help < Back Next > Finish Cancel

9. Add clusters one for each **managed servers**.



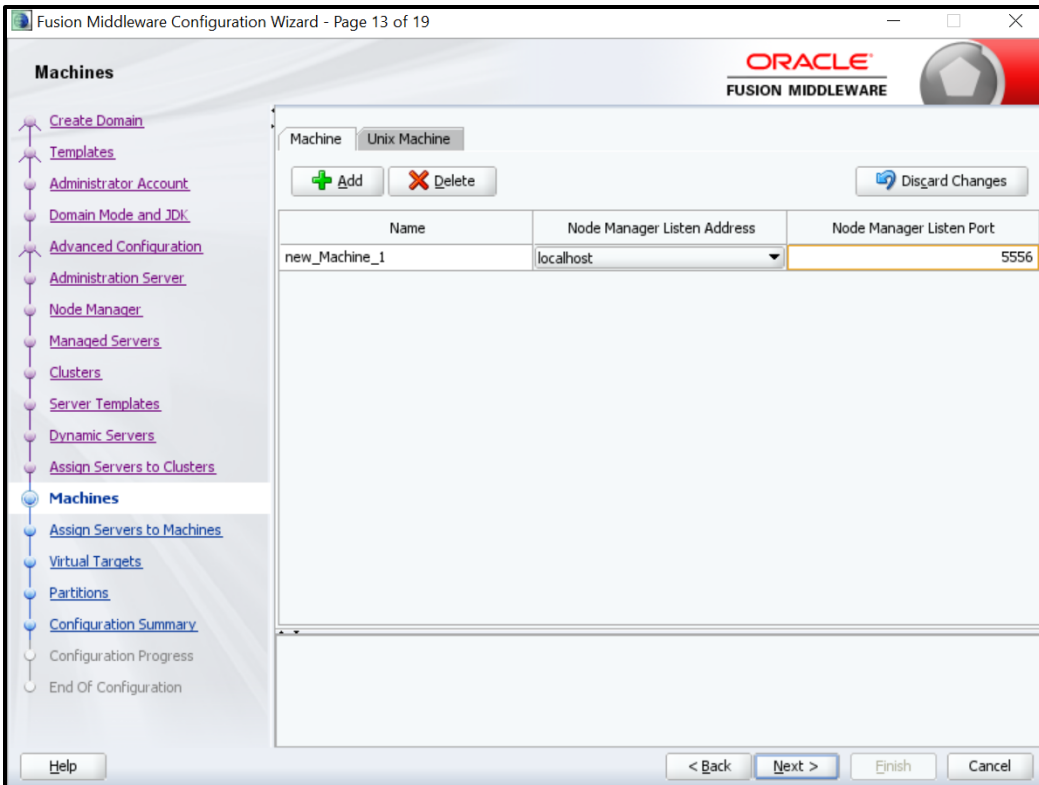
10. Skip **Server Templates** and **Dynamic Servers**.



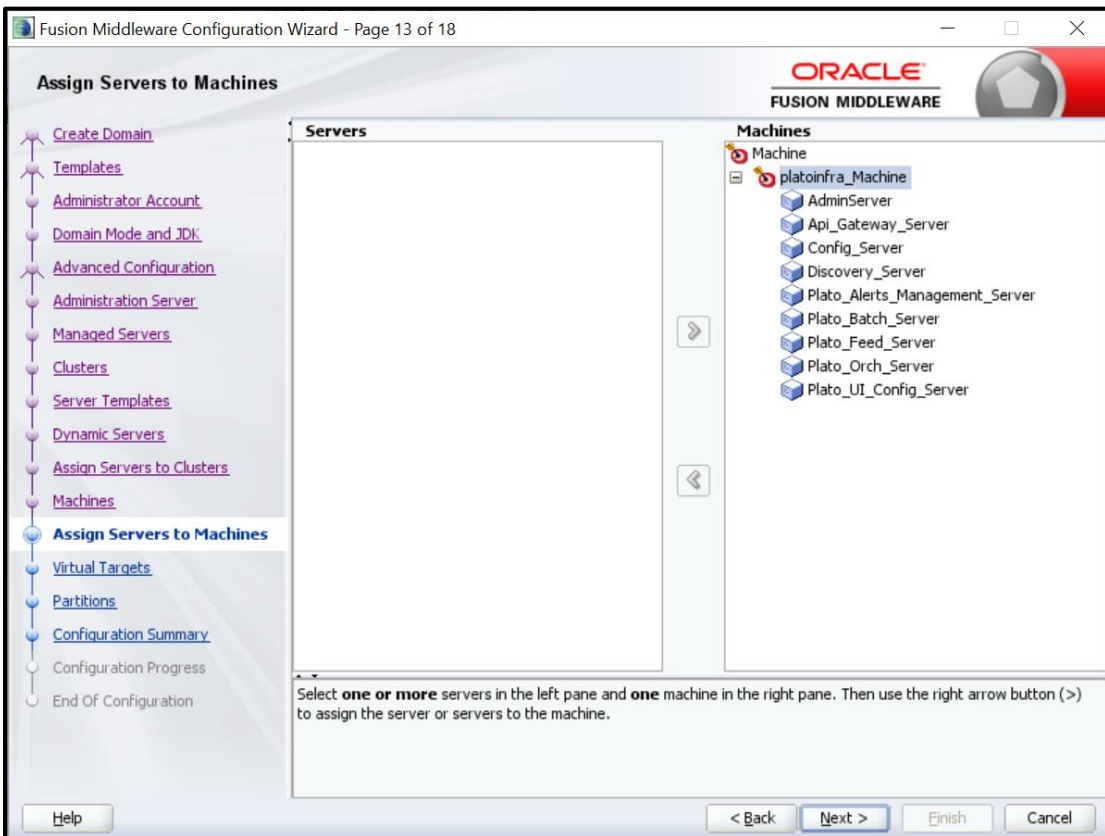
11. Assign clusters with servers.



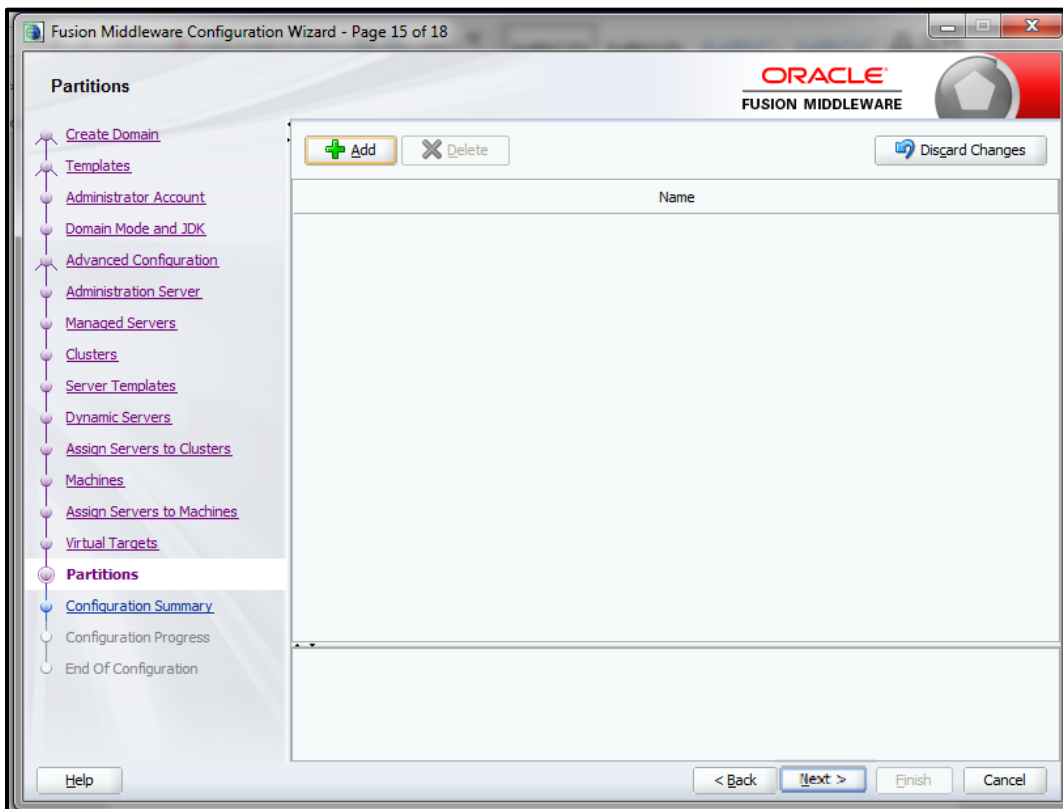
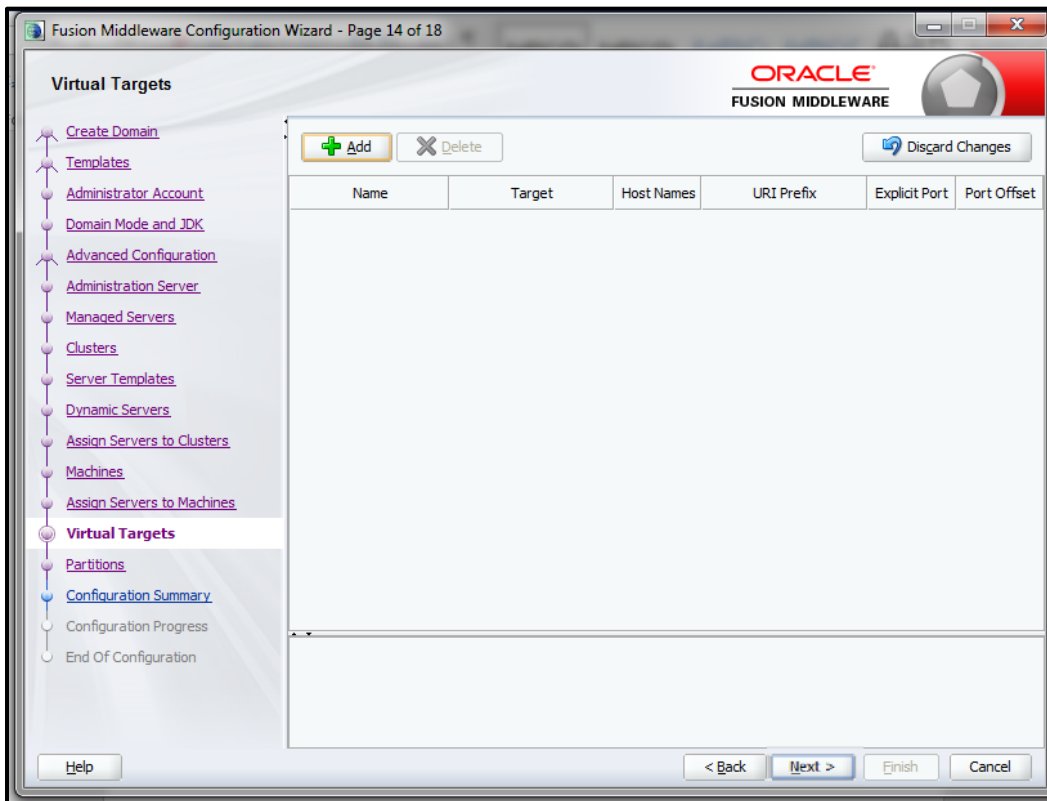
12. Add **Machine/Unix Machine** based on operating system and configure **Name**, **Node Manager Listen Address** and **Node Manager Listen Port** as required.



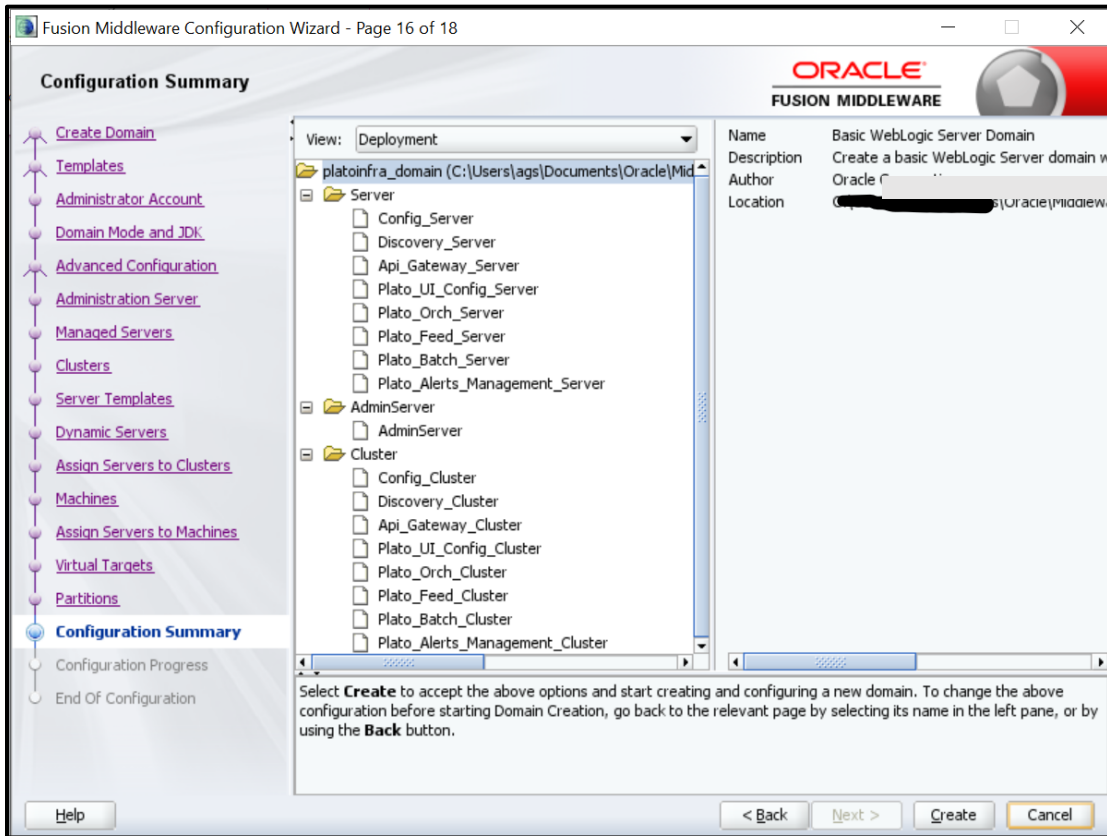
13. Map all managed servers under the machine created.

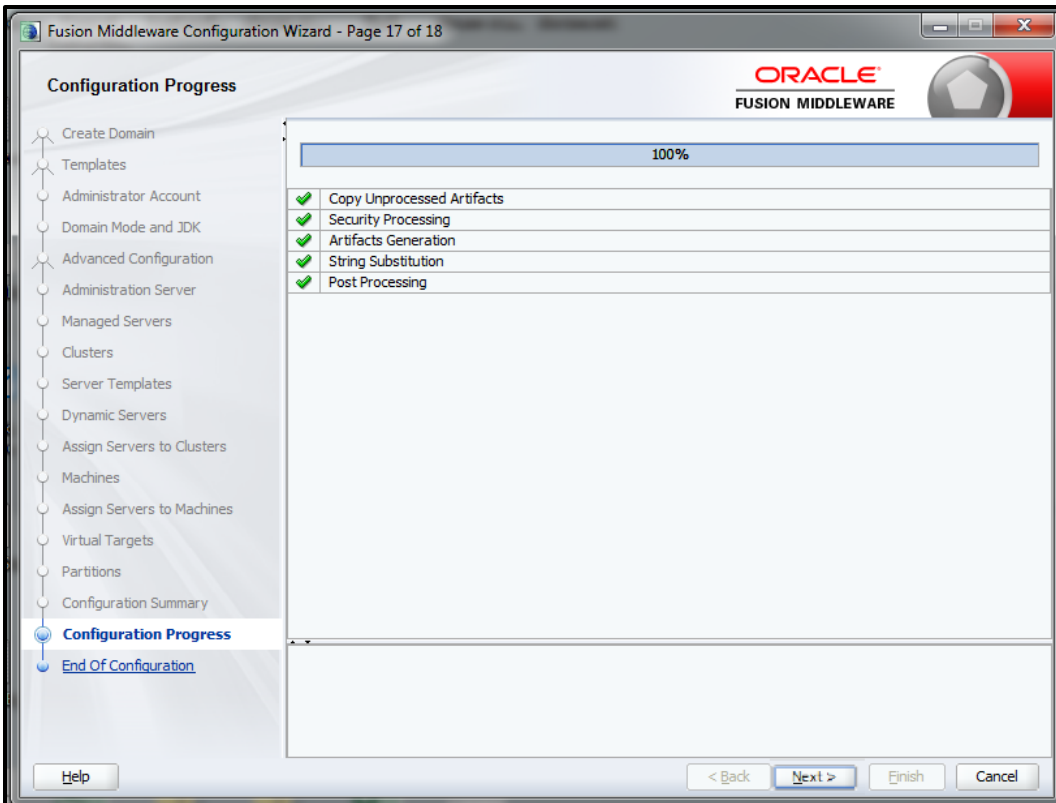


14. Skip or configure **Virtual Targets** and **Partitions** as required.

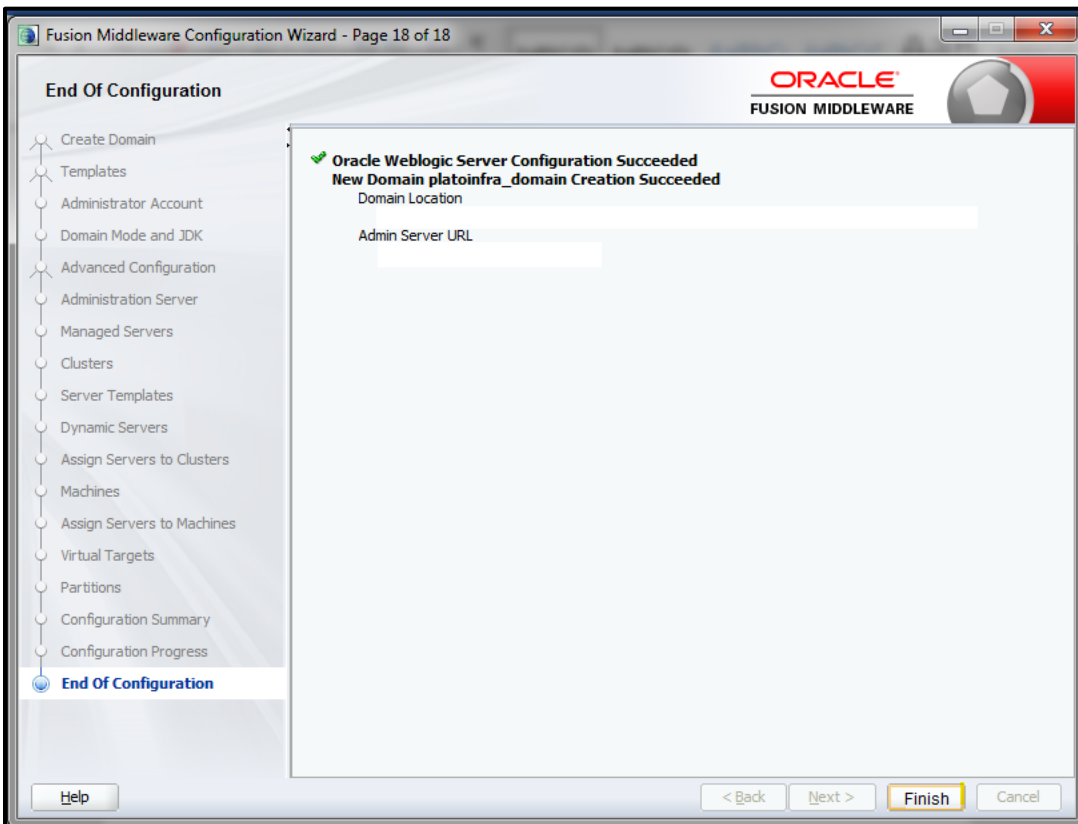


15. Check the **Configuration Summary** and confirm creating domain.





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`
2. 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:

The screenshot shows the Oracle WebLogic Administration Console interface. On the left, there is a 'Domain Structure' tree showing the hierarchy: platoinfra_domain > Environment > Servers > Machines. Below it, there are sections for 'How do I...' and 'System Status'. The main area is titled 'Configuration' and contains a table of servers. The table has columns: Name, Type, Cluster, Machine, State, Health, and Listen Port. The 'AdminServer(admin)' is the only server in a 'RUNNING' state with a green checkmark and 'OK' health. All other servers are in a 'SHUTDOWN' state with 'Not reachable' health.

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured		platoinfra_Machine	RUNNING	OK	7001
Api_Gateway_Server	Configured	Api_Gateway_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7005
Config_Server	Configured	Config_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7003
Discovery_Server	Configured	Discovery_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7004
Plato_Alerts_Management_Server	Configured	Plato_Alerts_Management_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7010
Plato_Batch_Server	Configured	Plato_Batch_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7009
Plato_Feed_Server	Configured	Plato_Feed_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7008
Plato_Orch_Server	Configured	Plato_Orch_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7007
Plato_UI_Config_Server	Configured	Plato_UI_Config_Cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7006

Change Center
View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.

Domain Structure
platoinfra_domain
- Domain Partitions
- Environment
- Servers
- Clusters
- Coherence Clusters
- Resource Groups
- Resource Group Templates
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management

Summary of Clusters
This page summarizes the clusters that have been configured in the current WebLogic Server domain.
A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability.

Clusters (Filtered - More Columns Exist)
Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	S
Api_Gateway_Cluster		Unicast	Database	Round Robin	(None)		A
Config_Cluster		Unicast	Database	Round Robin	(None)		C
Discovery_Cluster		Unicast	Database	Round Robin	(None)		D
Plato_Alerts_Management_Cluster		Unicast	Database	Round Robin	(None)		P
Plato_Batch_Cluster		Unicast	Database	Round Robin	(None)		P
Plato_Feed_Cluster		Unicast	Database	Round Robin	(None)		P
Plato_Orch_Cluster		Unicast	Database	Round Robin	(None)		P
Plato_UI_Config_Cluster		Unicast	Database	Round Robin	(None)		P

Change Center
View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.

Domain Structure
platoinfra_domain
- Domain Partitions
- Environment
- Servers
- Clusters
- Coherence Clusters
- Resource Groups
- Resource Group Templates
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management

Summary of Machines
A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers.
This page displays key information about each machine that has been configured in the current WebLogic Server domain.

Machines
Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type
platoinfra_Machine	Machine

1.4 How to Create Datasource

Perform the following steps to create data source:

1. 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**

View changes and restarts

Click the *Lock & Edit* button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

- platoinfra_domain
 - [-] Domain Partitions
 - [-] Environment
 - [-] Deployments
 - [-] Services
 - [-] Messaging
 - [-] Data Sources
 - [-] Persistent Stores
 - [-] Foreign JNDI Providers
 - [-] Work Contexts
 - [-] XML Registries
 - [-] XML Entity Caches
 - [-] jCOM

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit

Release Configuration

Domain Structure

- platoinfra_domain
 - [-] Domain Partitions
 - [-] Environment
 - [-] Deployments
 - [-] Services
 - [-] Messaging
 - [-] Data Sources
 - [-] Persistent Stores
 - [-] Foreign JNDI Providers
 - [-] Work Contexts
 - [-] XML Registries
 - [-] XML Entity Caches
 - [-] jCOM
 - [-] Mail Sessions

Home > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources

Summary of JDBC Data Sources

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

Customize this table

Data Sources (Filtered - More Columns Exist)

New Delete

Generic Data Source	Type	JNDI Name	Targets
There are no items to display			

GridLink Data Source

Multi Data Source

Proxy Data Source

UCP Data Source

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

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

* Indicates required fields

What would you like to name your new JDBC data source?

Name: PLATO

What scope do you want to create your data source in ?

Scope: Global

What JNDI name would you like to assign to your new JDBC Data Source?

JNDI Name: jdbc/PLATO

What database type would you like to select?

Database Type: Oracle

Back Next Finish Cancel

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

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

Database Type: Oracle

What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.

Database Driver: *Oracle's Driver (Thin) for Service connections; Versions:Any

Back Next Finish Cancel

5. Uncheck support for Global Transactions.

Home > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources

Create a New JDBC Data Source

Transaction Options

You have selected non-XA JDBC driver to create database connection in your new data source.

Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.

Supports Global Transactions

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the *Logging Last Resource* (LLR) transaction option. Emulate Two-Phase Commit.

Logging Last Resource

Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application conditions.

Emulate Two-Phase Commit

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, the application can participate in the global transaction.

One-Phase Commit

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

Home > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources

Create a New JDBC Data Source

Connection Properties

Define Connection Properties.

What is the name of the database you would like to connect to?

Database Name:

What is the name or IP address of the database server?

Host Name:

What is the port on the database server used to connect to the database?

Port:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?

Password:

Confirm Password:

Additional Connection Properties:

oracle.jdbc.DRCPConnectionClass:

Home > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources

Messages

✔ Connection test succeeded.

Create a New JDBC Data Source

Test Configuration | Back | Next | Finish | Cancel

Test Database Connection

Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection pool?
(Note that this driver class must be in the classpath of any server to which it is deployed.)

Driver Class Name:

7. Select targets to deploy data source.

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

Summary of JDBC Data Sources

Configuration | Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

[Customize this table](#)

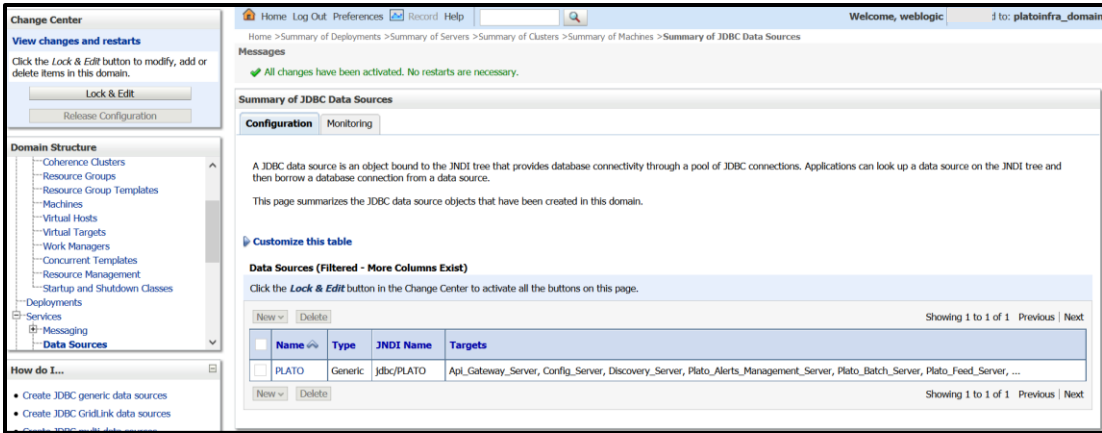
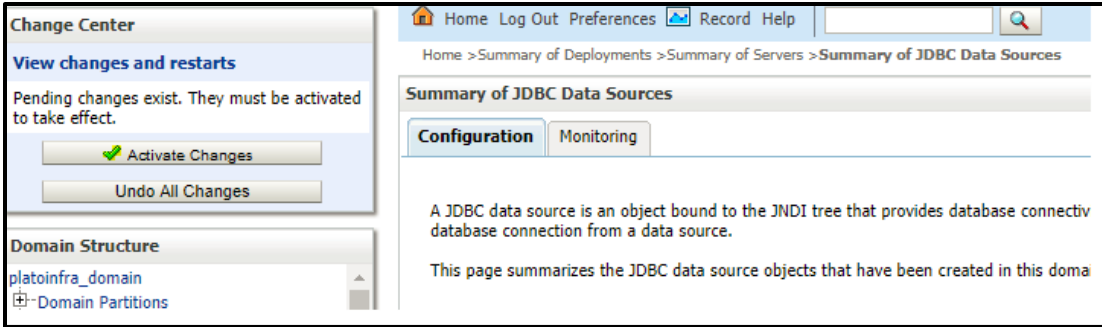
Data Sources (Filtered - More Columns Exist)

New | Delete Showing 1 to 1 of 1 Previous | Next

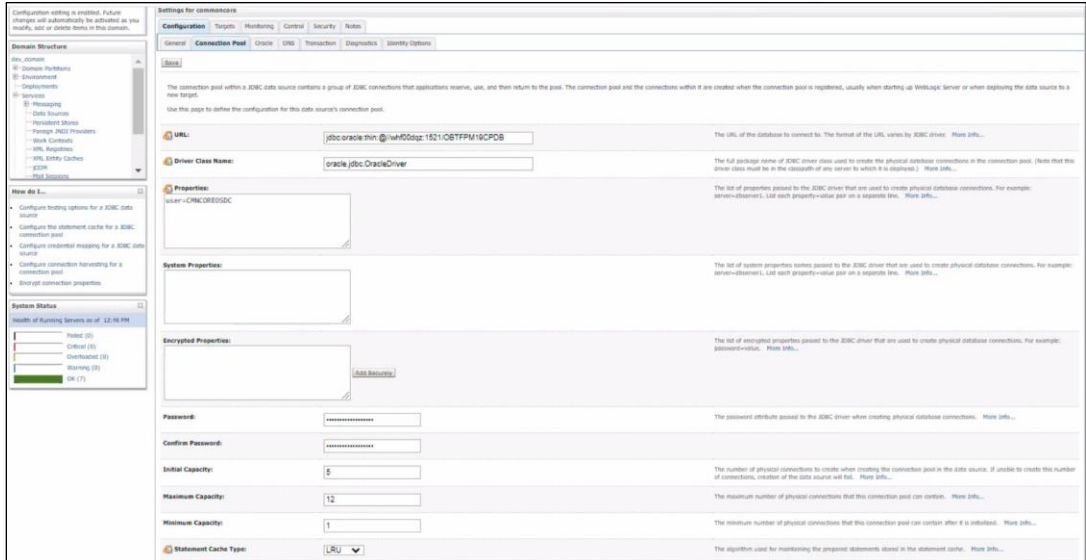
<input type="checkbox"/>	Name	Type	JNDI Name	Targets
<input type="checkbox"/>	PLATO	Generic	jdbc/PLATO	Api_Gateway_Server, Config_Server, Discovery_Server, Plato_Alerts_Management_Server, Plato_Batch_Server, Plato_Feed_Server, ...

New | Delete Showing 1 to 1 of 1 Previous | Next

9. Click **Activate Changes** after confirming details.



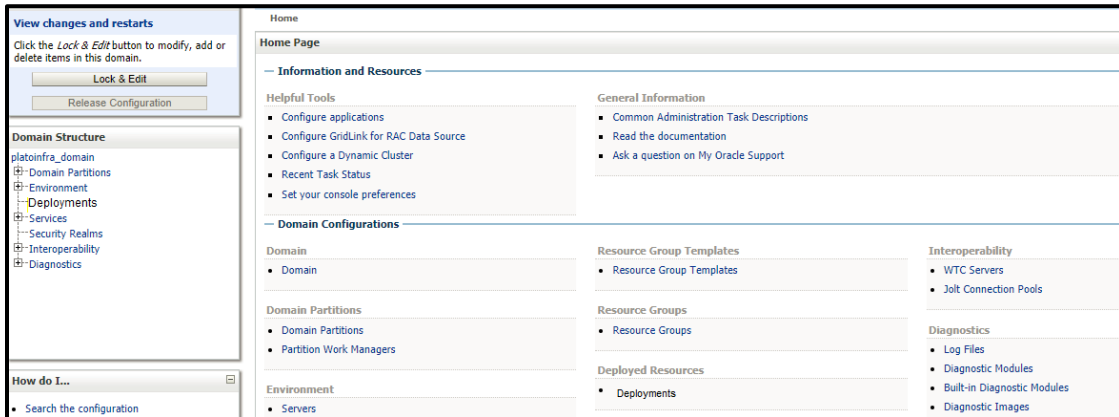
10. Post creating Data Source, click **Data source** under **Services** menu.
11. Select the specific Data sources one by one.
12. Navigate to **Connection Pool** tab under **Configuration** section and update the initial capacity, Minimum capacity and Max capacity as explained in the below screenshot



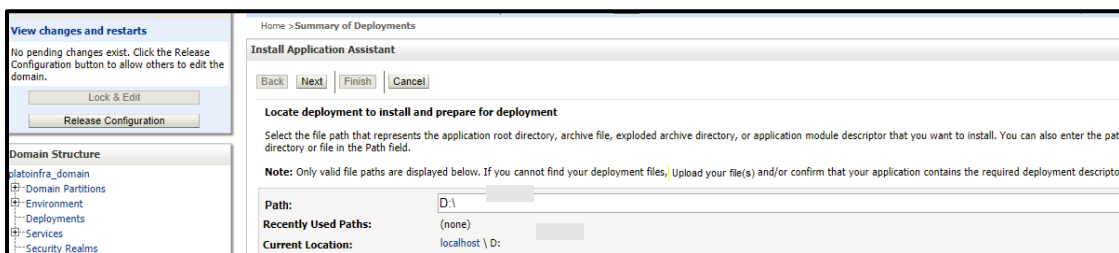
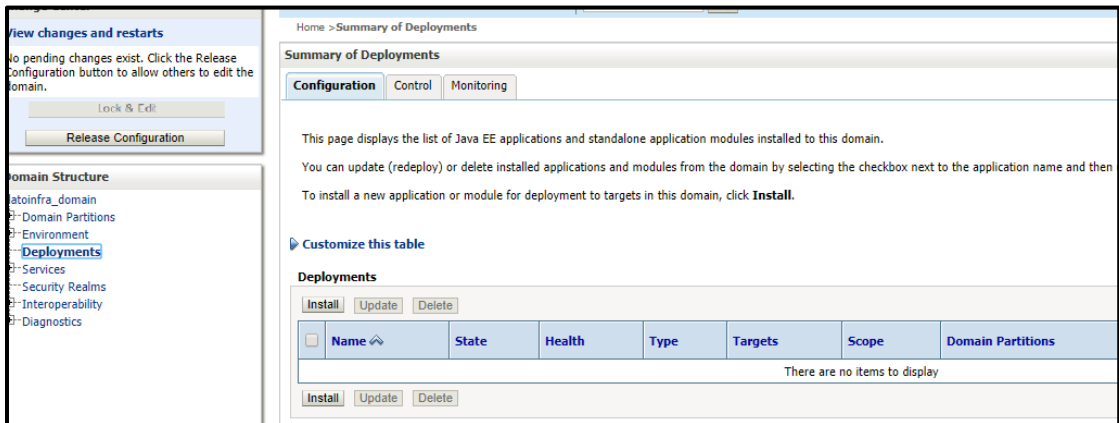
1.5 How to Deploy Application

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:

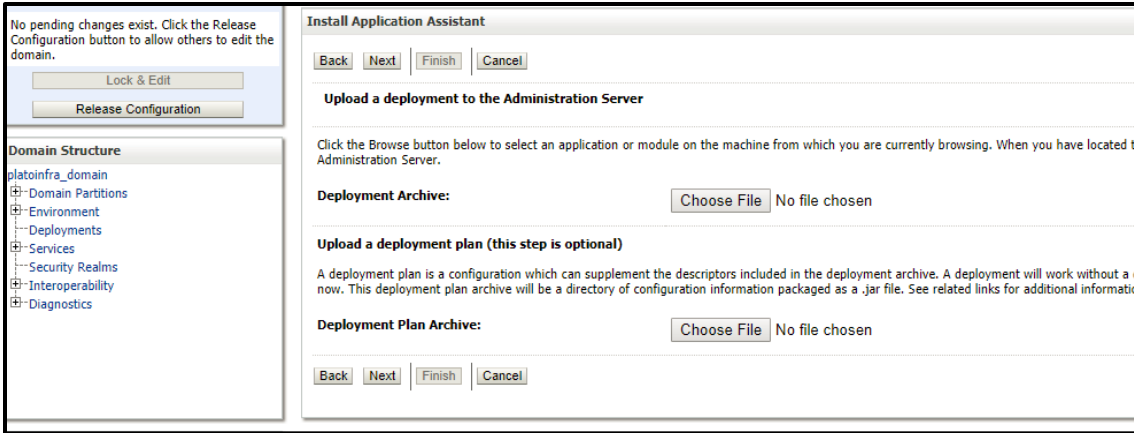
1. Navigate to left menu and select **Deployments**.



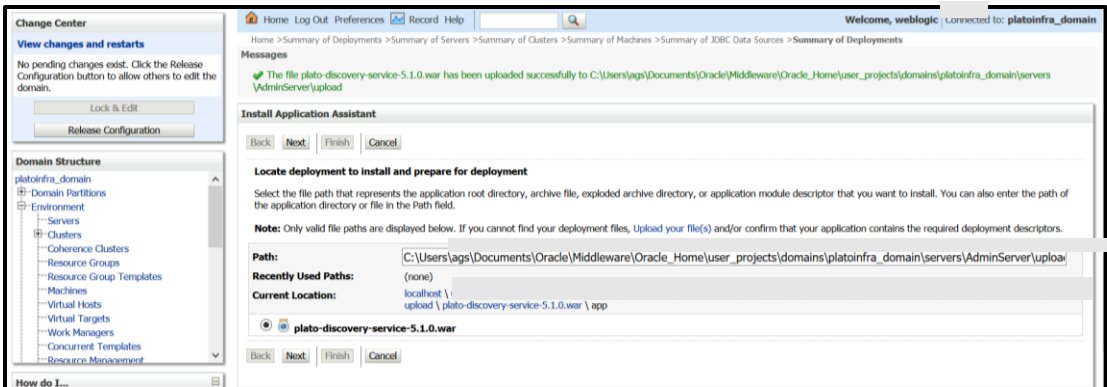
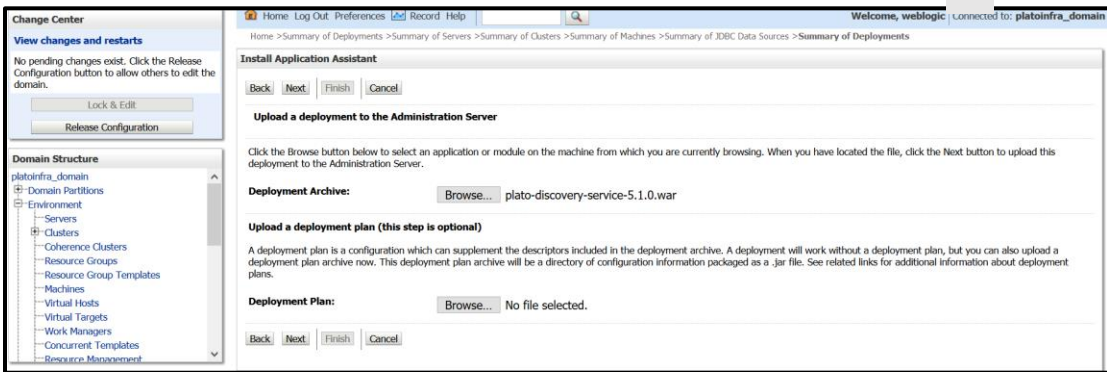
2. Click on **Lock and Edit** and then click **Install**.



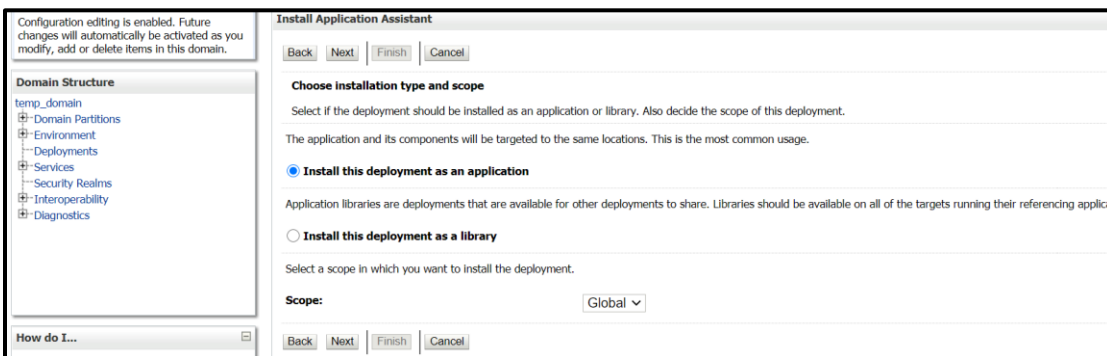
3. Click **Upload your file(s)** to select archive, **Choose File** and click **Next**.



4. After archive is uploaded, click **Next**.



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**.

Available targets for plato-discovery-service-5.1.0 :

Servers

- AdminServer

Clusters

- Api_Gateway_Cluster
 - All servers in the cluster
 - Part of the cluster
 - Api_Gateway_Server
- Config_Cluster
 - All servers in the cluster
 - Part of the cluster
 - Config_Server
- Discovery_Cluster
 - All servers in the cluster
 - Part of the cluster
 - Discovery_Server
- Plato_Alerts_Management_Cluster
 - All servers in the cluster
 - Part of the cluster
 - Plato_Alerts_Management_Server

Install Application Assistant

Back Next Finish Cancel

Optional Settings

You can modify these settings or accept the defaults.
* Indicates required fields

— General —

What do you want to name this deployment?

* Name: plato-discovery-service-5.1.0

— Security —

What security model do you want to use with this application?

- DD Only:** Use only roles and policies that are defined in the deployment descriptors.
- Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
- Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
- Advanced: Use a custom model that you have configured on the realm's configuration page.

— Source Accessibility —

How should the source files be made accessible?

- Use the defaults defined by the deployment's targets

Deploy Desktop Updates

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

Summary of Deployments

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments

Install Update Delete Showing 1 to 1 of 1 Previous Next

<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	plato-discovery-service-5.1.0	distribute Initializing		Web Application	Discovery_Server	Global		100

Install Update Delete Showing 1 to 1 of 1 Previous Next

Change Center
View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.
[Lock & Edit]
[Release Configuration]

Domain Structure
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
Resource Management
Startup and Shutdown Classes
Deployments

How do I...
• Install an enterprise application
• Configure an enterprise application

Home Log Out Preferences Record Help Welcome, weblogic I to: platoinfra_domain
Home > Summary of Deployments > Summary of Servers > Summary of Clusters > Summary of Machines > Summary of JDBC Data Sources > Summary of Deployments

Messages
All changes have been activated. No restarts are necessary.

Summary of Deployments
Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.
You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.
To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments
[Install] [Update] [Delete] Showing 1 to 1 of 1 Previous | Next

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/> plato-discovery-service-5.1.0	New		Web Application	Discovery_Server	Global		100

[Install] [Update] [Delete] Showing 1 to 1 of 1 Previous | Next

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

Change Center
View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
[Lock & Edit]
[Release Configuration]

Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
Resource Management

Home Log Out Preferences Record Help Welcome, weblogic Connected to: platoinfra_domain
Home > Summary of Deployments > Summary of Servers > Summary of Clusters > Summary of Machines > Summary of JDBC Data Sources > Summary of Deployments > Summary of Servers > Summary of Deployments

Summary of Deployments
Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.
You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Customize this table

Deployments
[Start] [Stop] Showing 1 to 1 of 1 Previous | Next

Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> plato-discovery-service-5.1.0	Prepared	OK	Web Application	Discovery_Server	Global	

[Start] [Stop] Showing 1 to 1 of 1 Previous | Next

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

Change Center
View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
[Lock & Edit]
[Release Configuration]

Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers
Clusters
Coherence Clusters
Resource Groups
Resource Group Templates
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
Resource Management

Home Log Out Preferences Record Help Welcome, weblogic Connected to: platoinfra_domain
Home > Summary of Deployments > Summary of Servers > Summary of Clusters > Summary of Machines > Summary of JDBC Data Sources > Summary of Deployments > Summary of Servers > Summary of Deployments

Summary of Deployments
Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.
You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Customize this table

Deployments
[Start] [Stop] Showing 1 to 1 of 1 Previous | Next

Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> plato-discovery-service-5.1.0	Prepared	OK	Web Application	Discovery_Server	Global	

[Start] [Stop] Showing 1 to 1 of 1 Previous | Next

10. Click **Yes**.

Change Center
View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
[Lock & Edit]
[Release Configuration]

Domain Structure
platoinfra_domain
Domain Partitions
Environment
Servers

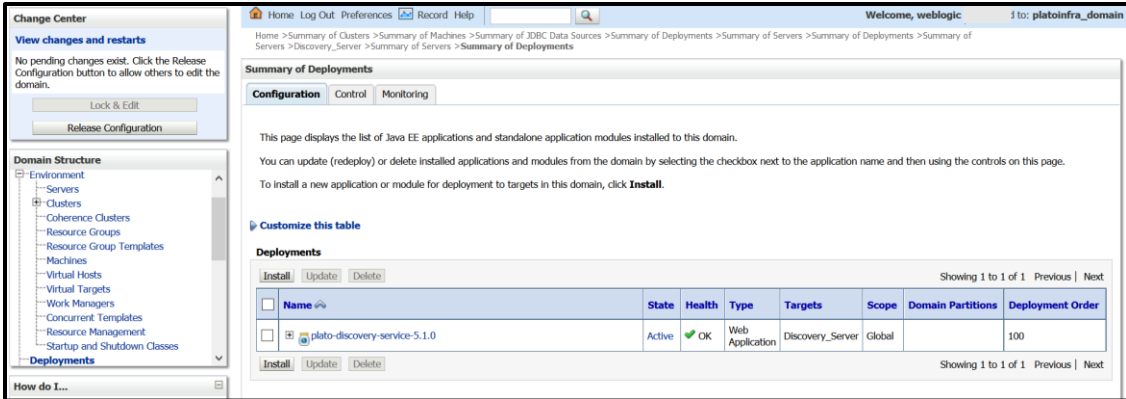
Home Log Out Preferences Record Help Welcome, weblogic Connected to: platoinfra_domain
Home > Summary of Deployments > Summary of Servers > Summary of Clusters > Summary of Machines > Summary of JDBC Data Sources > Summary of Deployments > Summary of Servers > Summary of Deployments

Start Application Assistant
Yes No

Start Deployments
You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.
• plato-discovery-service-5.1.0

Yes No

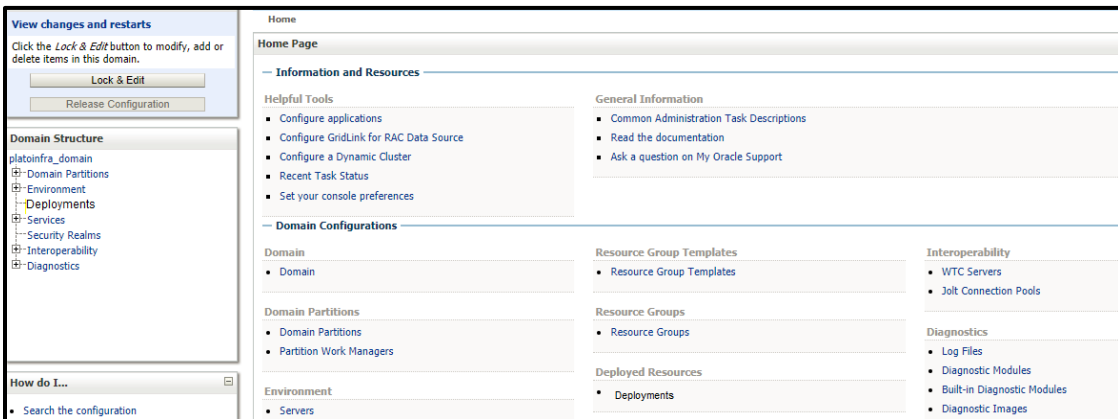
11. The status is displayed as **Active** in the state column.



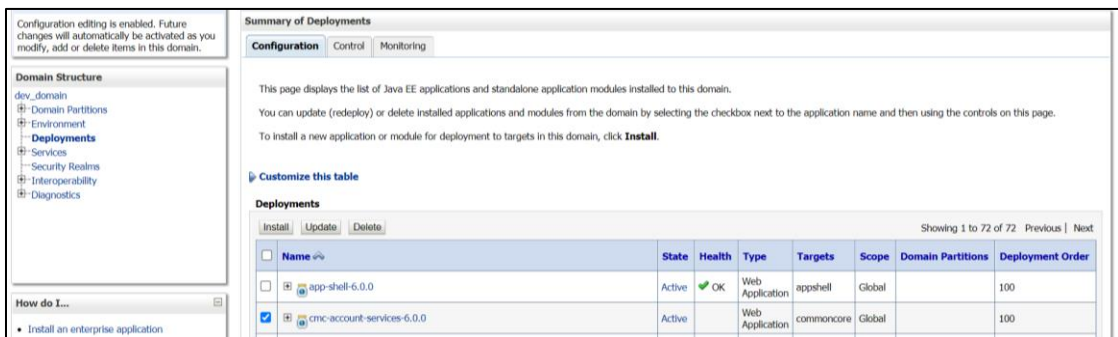
1.6 How to Undeploy Application

Login into weblogic server with the proper credentials.

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



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



3. On **Control** tab, click **Stop**, and select **Force stop now** from the dropdown list.

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- dev_domain
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Configure an enterprise application

Home > Summary of Deployments

Summary of Deployments

Configuration | **Control** | Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Customize this table

Deployments

Start | Stop

Showing 1 to 72 of 72 Previous | Next

<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/>	When work completes						
<input type="checkbox"/>	Force stop now						
<input type="checkbox"/>	Stop, but continue servicing administration requests	Active	OK	Web Application	appshell	Global	
<input type="checkbox"/>	cmc-account-services-6.0.0	Active	OK	Web Application	commoncore	Global	
<input type="checkbox"/>	cmc-additional-attributes-services-6.0.0	Active	OK	Web Application	commoncore	Global	
<input checked="" type="checkbox"/>	cmc-advice-services	Active	OK	Web Application	commoncore	Global	

4. Once it changes to prepared state, click **Configuration** tab.

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- dev_domain
 - Domain Partitions
 - Environment
 - Deployments**
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application

Summary of Deployments

Configuration | Control | Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments

Install | Update | Delete

Showing 1 to 72 of 72 Previous | Next

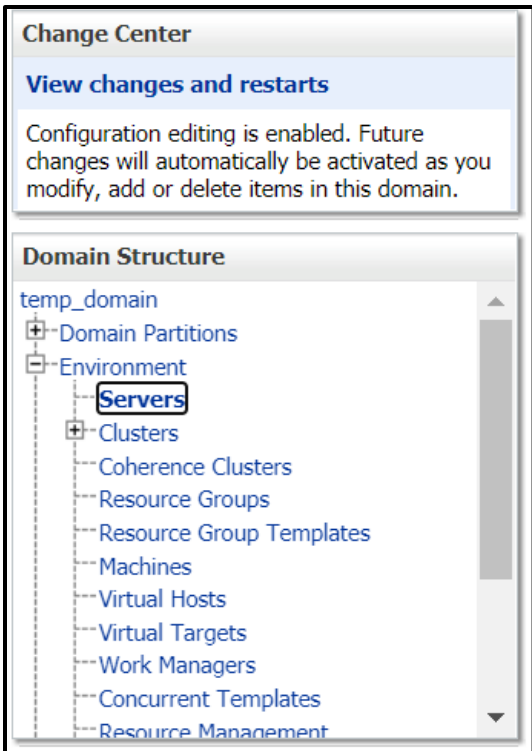
<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	app-shell-6.0.0	Active	OK	Web Application	appshell	Global		100
<input type="checkbox"/>	cmc-account-services-6.0.0	Active		Web Application	commoncore	Global		100
<input type="checkbox"/>	cmc-additional-attributes-services-6.0.0	Active		Web Application	commoncore	Global		100
<input checked="" type="checkbox"/>	cmc-advice-services	Prepared		Web Application	commoncore	Global		100

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

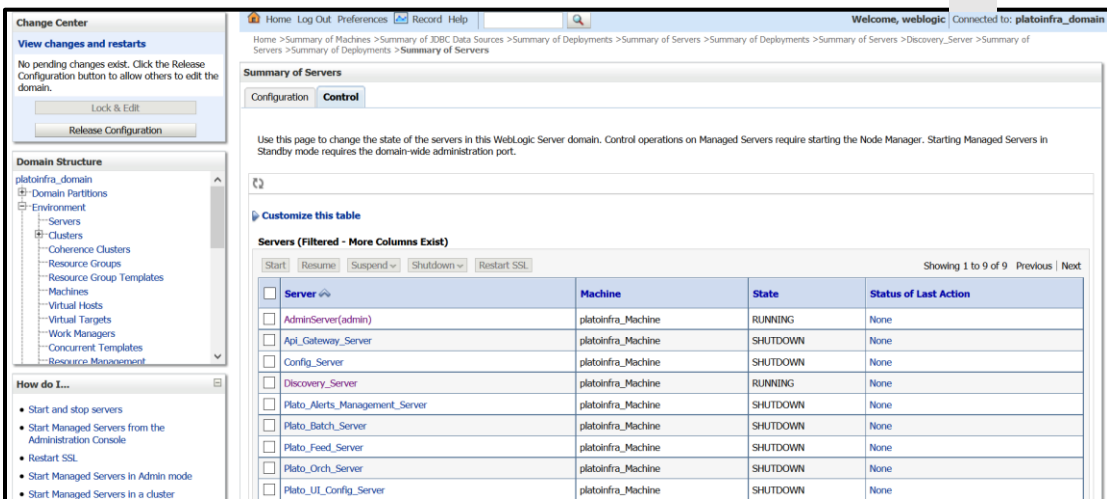
1.7 How to Restart Servers

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**

Summary of Servers

Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Showing 1 to 9 of 9 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)	platoinfra_Machine	RUNNING	None
<input type="checkbox"/> APl_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Config_Server	platoinfra_Machine	SHUTDOWN	None
<input checked="" type="checkbox"/> Discovery_Server	platoinfra_Machine	RUNNING	None

4. Click **Yes** to confirm shutdown.

Server Life Cycle Assistant

Yes No

Forcibly Shutdown Servers

You have selected the following servers to be immediately shut down. Press 'Yes' to continue or 'No' to cancel.

- Discovery_Server

Yes No

5. The status displayed as shown below:

Summary of Servers

Configuration Control

Messages

A request has been sent to immediately shut down the selected servers.

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Showing 1 to 9 of 9 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)	platoinfra_Machine	RUNNING	None
<input type="checkbox"/> APl_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Config_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Discovery_Server	platoinfra_Machine	FORCE_SHUTTING_DOWN	TASK IN PROGRESS

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

Summary of Servers

Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Showing 1 to 9 of 9 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)	platoinfra_Machine	RUNNING	None
<input type="checkbox"/> APl_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Config_Server	platoinfra_Machine	SHUTDOWN	None
<input checked="" type="checkbox"/> Discovery_Server	platoinfra_Machine	SHUTDOWN	TASK COMPLETED

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
Release Configuration

Domain Structure

- platoinfra_domain
 - Domain Partitions
 - Environment
 - Servers

Home Log Out Preferences Record Help

Welcome, weblogic | Connected to: platoinfra_domain

Home > Summary of Deployments > Summary of Servers > Summary of Deployments > Summary of Servers > Discovery_Server > Summary of Servers > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources > Summary of Servers

Server Life Cycle Assistant

Yes No

Start Servers

You have selected the following servers to be started. Press 'Yes' to continue or 'No' to cancel.

- Discovery_Server

Yes No

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
Release Configuration

Domain Structure

- platoinfra_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...
Start and stop servers
Start Managed Servers from the

Home Log Out Preferences Record Help

Welcome, weblogic | Connected to: platoinfra_domain

Home > Summary of Deployments > Summary of Servers > Summary of Deployments > Summary of Servers > Discovery_Server > Summary of Servers > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources > Summary of Servers

Messages

A request has been sent to the Node Manager to start the selected servers.

Summary of Servers

Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Start Resume Suspend Shutdown Restart SSL

Showing 1 to 9 of 9 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)	platoinfra_Machine	RUNNING	None
<input type="checkbox"/> Api_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Config_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Discovery_Server	platoinfra_Machine	SHUTDOWN	TASK IN PROGRESS

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

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
Release Configuration

Domain Structure

- platoinfra_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...
Start and stop servers
Start Managed Servers from the

Home Log Out Preferences Record Help

Welcome, weblogic | Connected to: platoinfra_domain

Home > Summary of Deployments > Summary of Servers > Summary of Deployments > Summary of Servers > Discovery_Server > Summary of Servers > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources > Summary of Servers

Summary of Servers

Configuration Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Start Resume Suspend Shutdown Restart SSL

Showing 1 to 9 of 9 Previous Next

Server	Machine	State	Status of Last Action
<input type="checkbox"/> AdminServer(admin)	platoinfra_Machine	RUNNING	None
<input type="checkbox"/> Api_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Config_Server	platoinfra_Machine	SHUTDOWN	None
<input type="checkbox"/> Discovery_Server	platoinfra_Machine	RUNNING	TASK COMPLETED

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
Release Configuration

Domain Structure

- Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management
 - Startup and Shutdown Classes
 - Deployments

How do I...

Home Log Out Preferences Record Help

Welcome, weblogic | Connected to: platoinfra_domain

Home > Summary of Servers > Summary of Deployments > Summary of Servers > Discovery_Server > Summary of Servers > Summary of Deployments > Summary of Servers > Summary of JDBC Data Sources > Summary of Servers

Summary of Deployments

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments

Install Update Delete

Showing 1 to 1 of 1 Previous Next

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/> plato-discovery-service-5.1.0	Active	OK	Web Application	Discovery_Server	Global		100

Install Update Delete

Showing 1 to 1 of 1 Previous Next

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**.



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

<input type="checkbox"/>	Name ↕	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured			RUNNING	✔ OK	7020
<input type="checkbox"/>	managed_server1	Configured		Machine1	RUNNING	✔ OK	7023

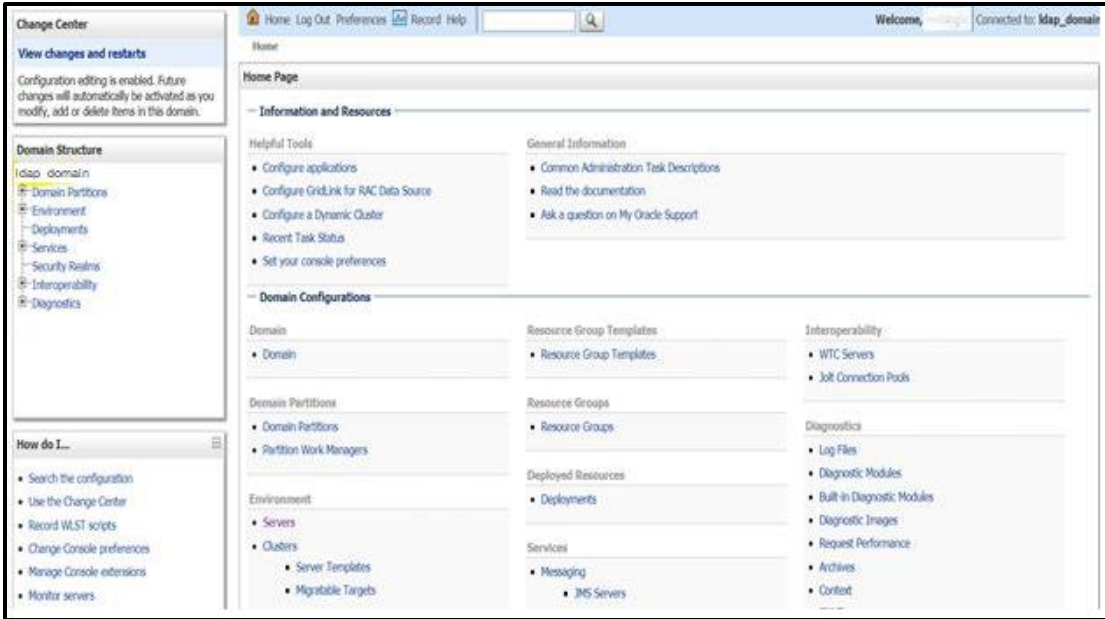
1.9 Weblogic Embedded LDAP Setup

The following changes are to be made for configuring the Weblogic-Embedded LDAP server for Oracle Banking Microservices Architecture:

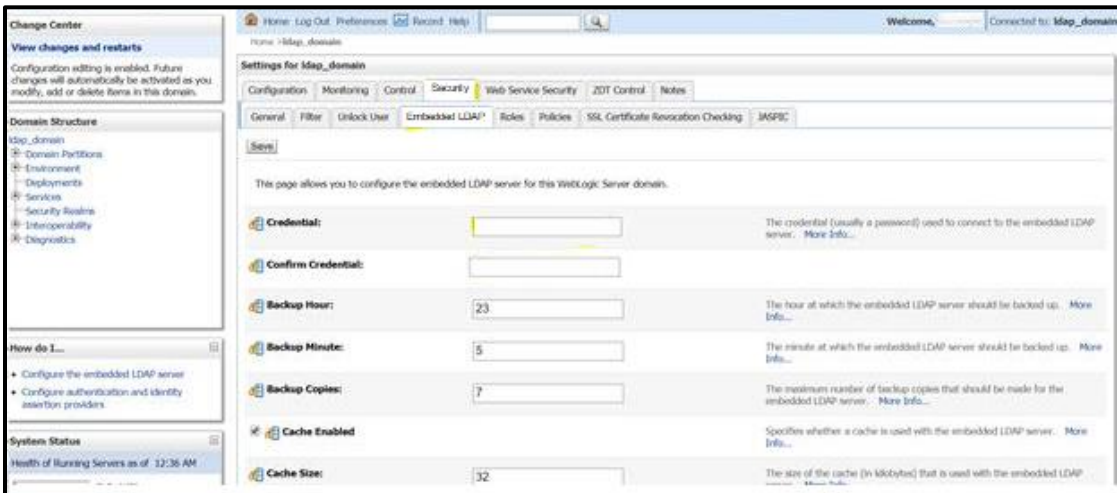
- Configuration of Weblogic LDAP
- Creation of Users
- Plato Security Config Table Entries

1.9.1 Configuration of Weblogic LDAP

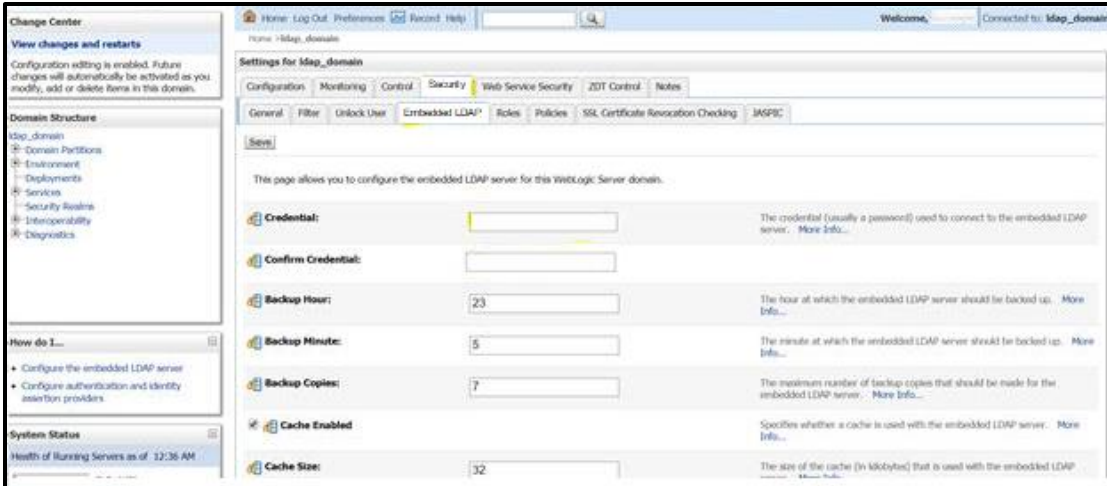
1. Open the **Administration Console** for the **Weblogic**, and click domain name in left panel.



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

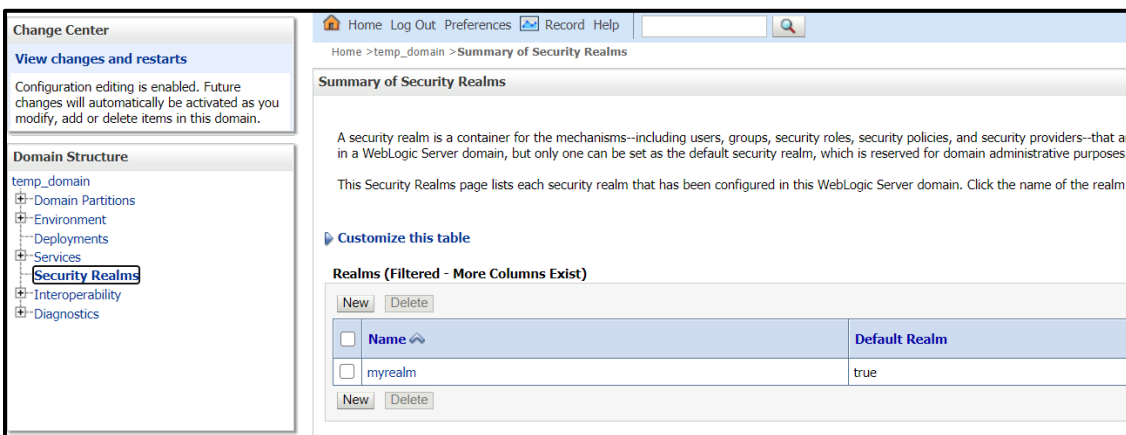


3. Set the **Credential** for Weblogic Embedded LDAP store. This is needed in the **Security Config** table.

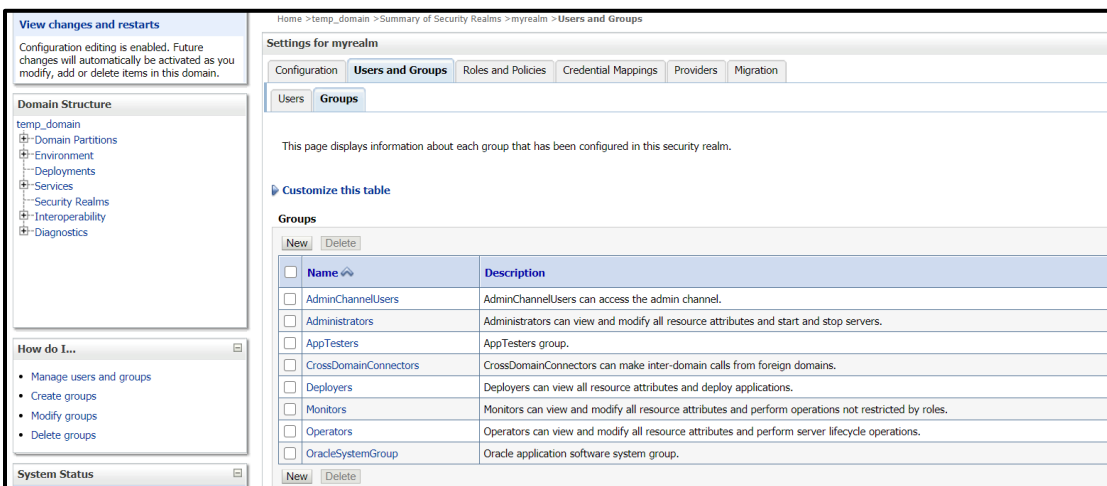


1.9.2 Creation of Users

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.

The screenshot shows the 'Create a New Group' dialog box. On the left, there is a 'Domain Structure' tree with 'temp_domain' selected. Below it, a 'How do I...' section lists 'Create groups', 'Modify groups', and 'Delete groups'. The main area contains the following fields:

- Group Properties:** A note stating 'The following properties will be used to identify your new Group.' and '* Indicates required fields'.
- Name:** A text field containing 'Developers'.
- Description:** A text field containing 'Group for Developers'.
- Provider:** A dropdown menu set to 'DefaultAuthenticator'.

Buttons for 'OK' and 'Cancel' are located at the top and bottom of the dialog.

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

The screenshot shows the 'Users and Groups' page. The 'Users' tab is selected. The page displays a table of users with the following columns: Name and Description.

Name	Description
LCMUser	This is the default service account for WebLogic Server Lifecycle Manager configuration updates.
OracleSystemUser	Oracle application software system user.
weblogic	This user is the default administrator.

Buttons for 'New' and 'Delete' are located above the table. The page also includes a 'Change Center' sidebar on the left and a 'Settings for myrealm' header with tabs for 'Configuration', 'Users and Groups', 'Roles and Policies', 'Credential Mappings', 'Providers', and 'Migration'.

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

The screenshot shows the 'Create a New User' dialog box. On the left, there is a 'Domain Structure' tree with 'temp_domain' selected. Below it, a 'How do I...' section lists 'Create users', 'Modify users', 'Delete users', 'Create groups', and 'Manage users and groups'. The main area contains the following fields:

- User Properties:** A note stating 'The following properties will be used to identify your new User.' and '* Indicates required fields'.
- Name:** A text field containing 'testuser'.
- Description:** A text field containing 'user for testing'.
- Provider:** A dropdown menu set to 'DefaultAuthenticator'.
- Password:** A text field containing '*****'.
- Confirm Password:** A text field containing '*****'.

Buttons for 'OK' and 'Cancel' are located at the top and bottom of the dialog.

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

Home > temp_domain > Summary of Security Realms > myrealm > Users and Groups

Messages
✔ User created successfully

Settings for myrealm

Configuration **Users and Groups** Roles and Policies Credential Mappings Providers Migration

Users Groups

This page displays information about each user that has been configured in this security realm.

Customize this table

Users (Filtered - More Columns Exist)

New Delete

<input type="checkbox"/>	Name ↕	Description
<input type="checkbox"/>	ADMINUSER1	ADMINUSER1
<input type="checkbox"/>	LCMUser	This is the default service account for WebLogic Server Lifecycle Manager configuration updates.
<input type="checkbox"/>	OracleSystemUser	Oracle application software system user.
<input type="checkbox"/>	weblogic	This user is the default administrator.

New Delete

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

Home > temp_domain > Summary of Security Realms > myrealm > Users and Groups > ADMINUSER1

Settings for ADMINUSER1

General Passwords Attributes **Groups**

Save

Use this page to configure group membership for this user.

Parent Groups:

Available:

- AdminChannelUsers
- Administrators
- AppTesters
- CrossDomainConnectors
- Deployers
- Monitors
- Operators
- OracleSystemGroup

Chosen:

Save

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

Home > temp_domain > Summary of Security Realms > myrealm > Users and Groups > ADMINUSER1

Settings for ADMINUSER1

General Passwords Attributes **Groups**

Save

Use this page to configure group membership for this user.

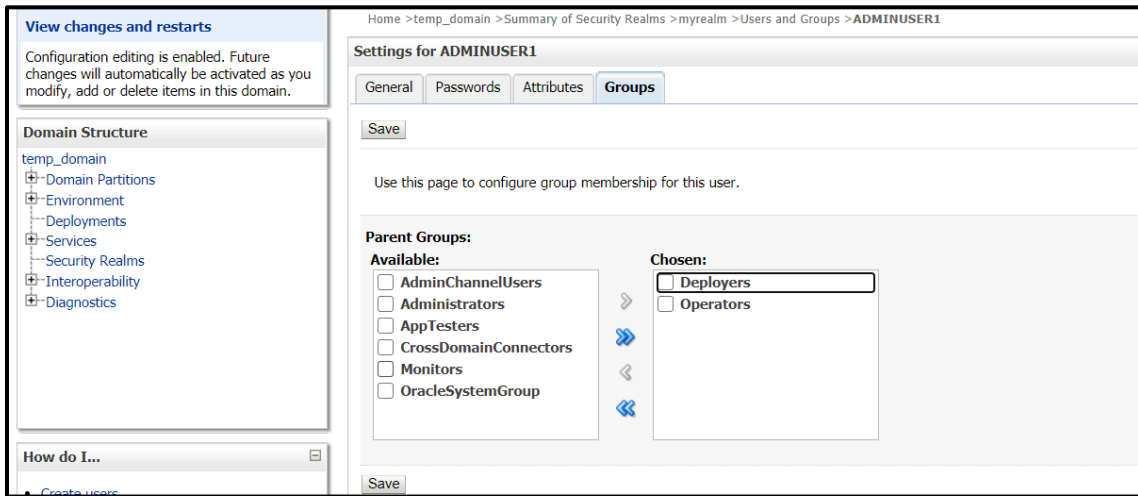
Parent Groups:

Available:

- AdminChannelUsers
- Administrators
- AppTesters
- CrossDomainConnectors
- Deployers
- Monitors
- Operators
- OracleSystemGroup

Chosen:

11. Click **Save**.



1.9.3 Oracle Banking Microservices Architecture 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: ldap:// 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
LDAP_SERVER_BASE	dc=ldap_domain	LDAP Server Base
LDAP_SERVER_CREDENTIAL	yIksiMFfjVbfcP A7Qheh8Q==	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

ID	VALUE	Description
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.
2. Open the OSDC and check for the report Catalog object **\{unzip folder}\REP\{reportfilename}.xdrz** or any other Catalog objects listed below:

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.

1.11 How to deploy Plato-Apigateway Router

1.11.1 Router deployment steps

Follow services must be deployment in below order to setup router service:

1. **Deploy plato-config-service**

- a. Set placeholder -Dflyway.domain.placeholders.plato-apigateway-router.server.port=<new server port for plato-apigateway-router>

2. **Deploy plato-ui-config-service**

- a. set -Dflyway.domain.placeholders.apigateway.port=<new server port for plato-apigateway-router>
- b. set -Dflyway.domain.placeholders.apigateway.host=<server host for plato-apigateway-router>

3. **Deploy plato-api-gateway**

- a. Migrate existing OAuth users:

API for migration - /api-gateway/migrateOAuthUsers

Example: http://hostname:8080/api-gateway/migrateOAuthUsers

Authorization - jwtToken

Headers:

appld,userId,entityId

Body (Json): ["client1", "client2"] - Migrate selected list of clients

or

Body (Json): ["ALL"] -Migrate all clients.

4. Deploy **plato-apigateway-router**

```
java -jar plato-apigateway-router.jar --
plato.services.config.uri=http://hostname:8001 --
plato.service.logging.path=/logfilePath
```

--plato.services.config.uri - Config server URI which is referred by all other services.

--plato.service.logging.path - Path where log file(plato-apigateway-router.log) must be created. Specify the same path as that of other services.

We can enable SSL for plato-apigateway-router by providing:

```
--server.ssl.enabled=true
```

```
--server.ssl.key-store=C:/Users/KEYS/keytool/keystore.jks
```

```
--key-store-password=xxxx
```

```
--server.ssl.trust-store=C:/Users/KEYS/keytool/truststore.jks
```

```
--trust-store-password=xxxxx
```

```
--salt=xxxxx
```

Note: Passwords and salt must be encrypted value generated using respective toolkits.

Provide ssl certs of plato-api-gateway required for validation call when plato-api-gateway is deployed in different server.:

```
--apigateway.useServerSSLKeys=false
```

```
--apigateway.ssl.key-store=C:/Users/KEYS/keytool/keystore.jks
```

```
--apigateway.ssl.key-store-password=xxxx
```

```
--apigateway.ssl.trust-store=C:/Users/KEYS/keytool/truststore.jks
```

```
--apigateway.ssl.trust-store-password=xxxxx
```

Note: Above certificates can be different than that of plato-apigateway-route

we must also provide trust certificates as

```
--spring.cloud.gateway.httpclient.ssl.trusted-x509-
certificates=C:/Users/KEYS/keytool/keystore1.pem,
C:/Users/KEYS/keytool/keystore2.pem
```

Note: Run this service with nohup command to that process will run on background

App-shell must point to plato-apigateway-router service. Update 'apigateway.url' by correcting it to "http://hostname:8080" - here 8080 is the port is configured for plato-apigateway-router.

1.11.2 Generation pem file and encryption of secrets:

Use plato-security-toolkit to encrypt secrets `---key-store-password`, `--trust-store-password`, `--apigateway.ssl.key-store-password`, `--apigateway.ssl.trust-store-password` and these encrypted values must be passed to router service.

Encryption of secrets:

To encrypt the passwords as per Oracle Standards, we recommend toolkit - plato-security-toolkit

Usage: `java -jar plato-security-toolkit-9.1.0.jar`

Enter pass phrase: Test123

Enter Salt: 0.9412345671234567

Encrypted Password: m4Q1rbtegkWse2s7D2jKfw==

Encryption of salt: to encrypt –salt value used while generating encrypted secret. This encrypt salt must be passed to router service.

To encrypt the salt as per Oracle Standards, we recommend toolkit - plato-security-salt-encryption-toolkit

Usage: `java -jar plato-security-salt-encryption-toolkit-9.1.0.jar`

Enter Salt: 0.9412345671234567

Encrypted Password:

VmtjMWQxTnJOVlpPV0VaWFZrVndUMWxYTVU1bFJsSlpZMFZLYTFaVVZrWldWbWgzVkrGS
1JsWnFVVDA9

PEM file from keystore

`keytool -exportcert -alias localhost -keystore keystore.jks -rfc -file keystore.pem`

1.11.3 Timeout parameters

These parameters are similar to earlier ribbon timeout params

`spring.cloud.gateway.httpclient.connect-timeout= 3000 //seconds`

`spring.cloud.gateway.httpclient.response-timeout= 360s`

`spring.cloud.gateway.httpclient.pool.acquire-timeout=6000 //milliseconds`

`spring.cloud.gateway.httpclient.pool.max-connections=10000`

#Properties used webclient call is made to plato-api-gateway for validation

`webclient.http.max.connections=1000`

webclient.http.acquire.timeout.millisec=5000

webclient.http.connection.timeout.millisec=20000

webclient.http.read.timeout.seconds=20000

webclient.http.write.timeout.seconds=20000