

ANNEXURE-1
Oracle Banking Electronic Data Exchange for Corporates
Release 14.5.3.0.0

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Electronic Data Exchange for Corporates Patchset Release 14.5.3.0.0, refer to the following documents:

- Oracle Banking Electronic Data Exchange for Corporates Installation Manuals

2. ANNEXURE - 1

2.1 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.

2.2 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

2.2.1 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:

```
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>/plato-
discovery-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-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 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=<EVETNHUB_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>

//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>

2.2.2 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
<input type="checkbox"/>	AdminServer(admin)	Configured		whf00dkc	RUNNING	✓ OK	7001
<input type="checkbox"/>	managed1_server	Configured		whf00dkc	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:	<input type="text"/>	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info...
Java Vendor:	<input type="text"/>	The Java Vendor value to use when starting this server. More Info...
BEA Home:	<input type="text"/>	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info...
Root Directory:	<input type="text"/>	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:	<input type="text"/>	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:	<input type="text"/>	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info...
Java Vendor:	<input type="text"/>	The Java Vendor value to use when starting this server. More Info...
BEA Home:	<input type="text"/>	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info...
Root Directory:	<input type="text"/>	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:	<input type="text"/>	The classpath (path on the machine running Node Manager) to use when starting this server. More Info...
Arguments:	<pre>-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</pre>	The arguments to use when starting this server. More Info...

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

2.2.3 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/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.zookeeper.hosts=

Kafka Security for all services
flyway.domain.placeholders.plato.eventhub.broker.hosts=
flyway.domain.placeholders.plato.eventhub.zookeeper.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 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.applId=  
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=

```

### **2.2.4 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": "OBTFPM",
 "customFilter": [
 {
 "key": "contractRefNo",
 "label": "Back Office Reference"
 },
 {
 "key": "otherRefNo",
 "label": "External Reference"
 }
]
}

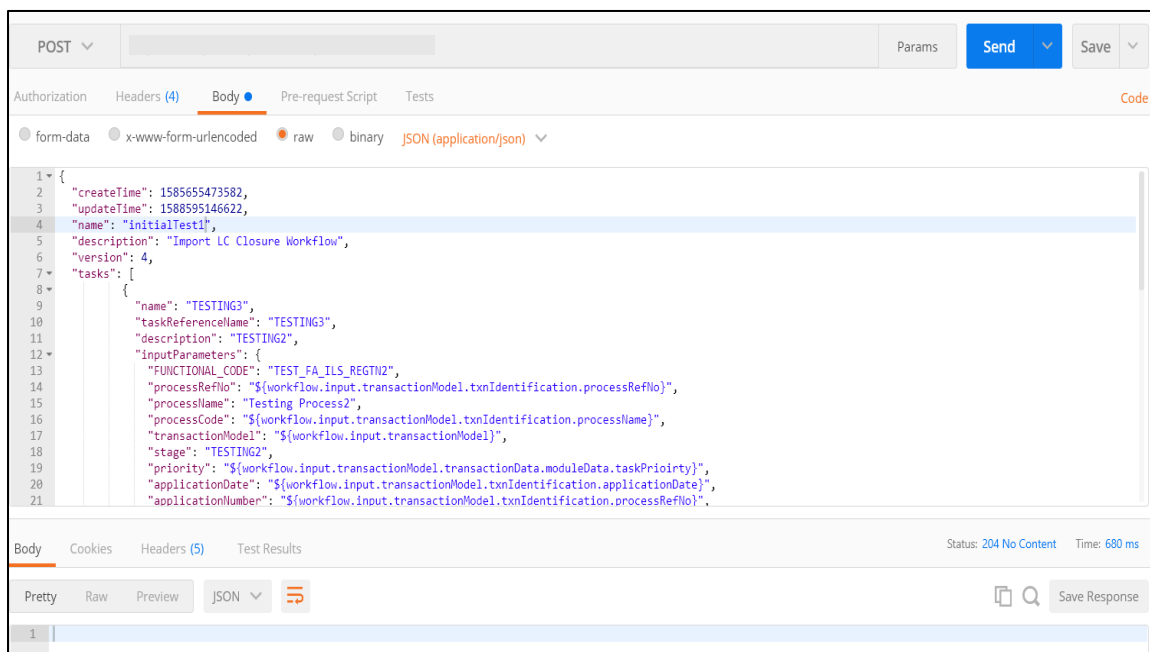
```

```

]
 },
 "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.

Body:

```

{
 "name": "initialTest",

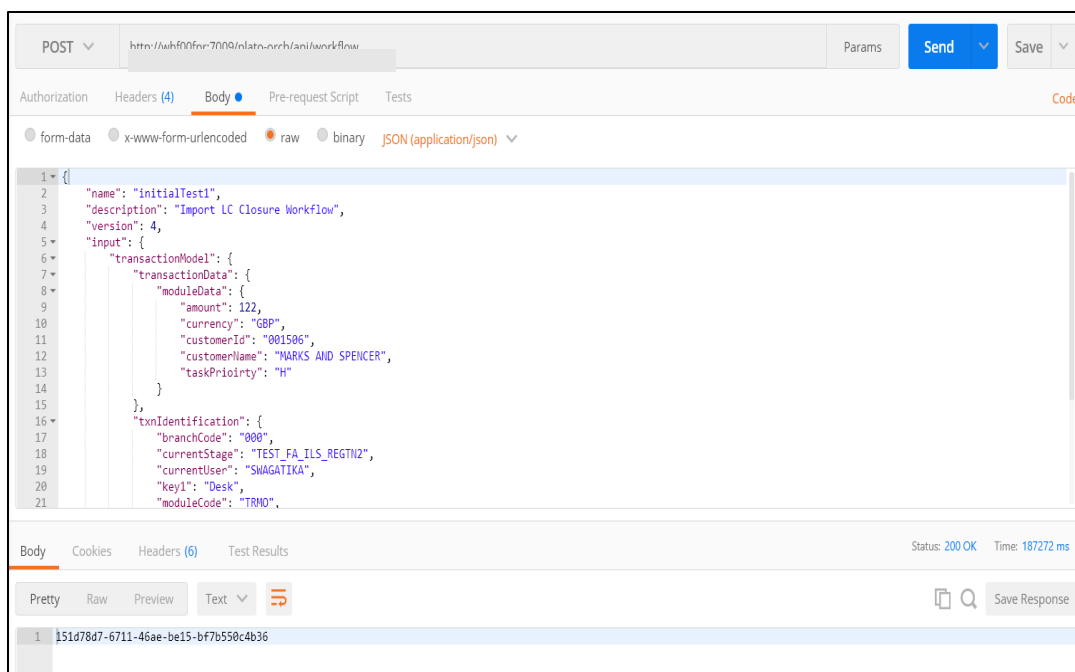
```

```

"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:



## 2.3 How to Create Domain and Cluster Configuration

This section contains the following sub-sections:

- Domain Creation Configuration
- Post Domain Creation Configurations

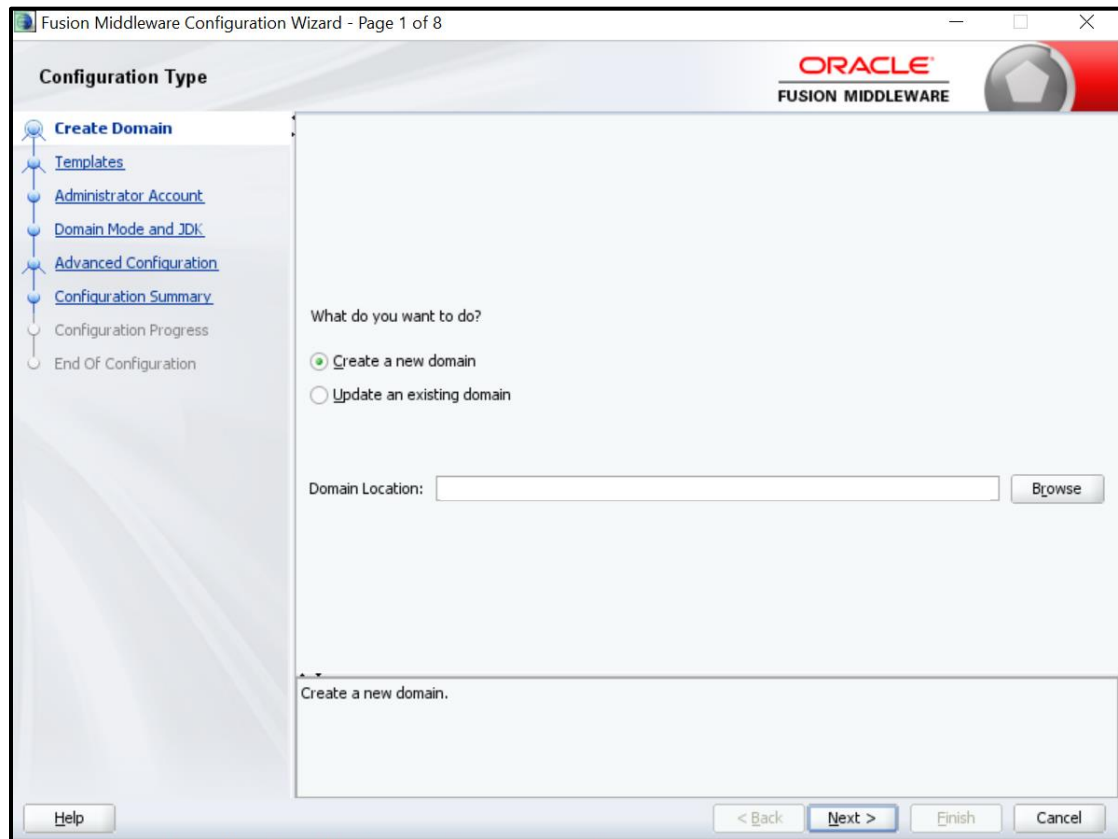
### 2.3.1 Domain Creation Configuration

Perform the following steps for domain and cluster configuration:

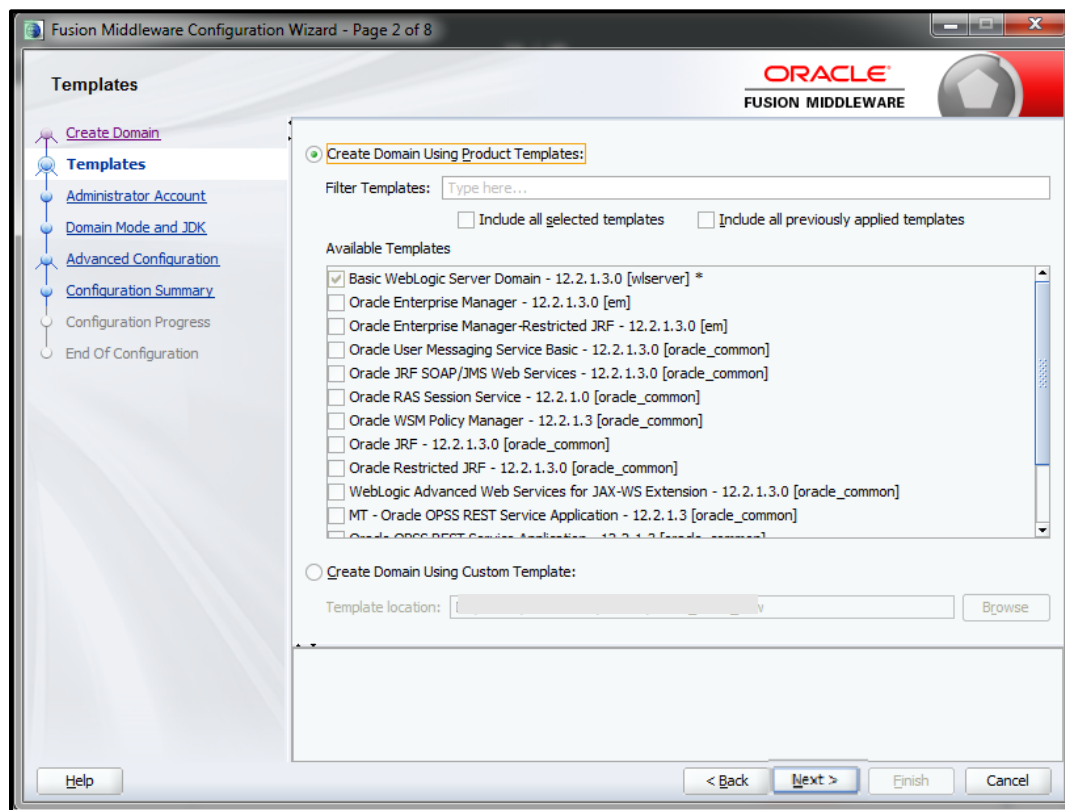
**NOTE:** Name need not to be same as provided in Screenshot.

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**.

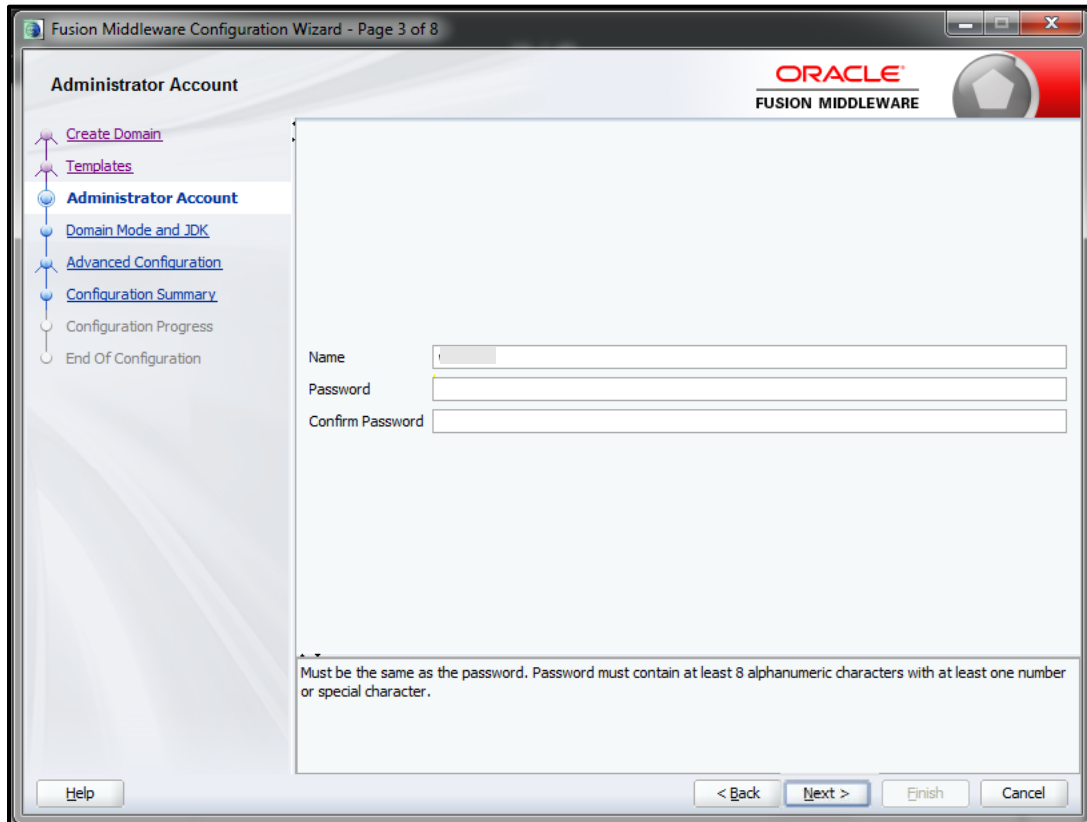


3. Click **Next** to create simple domain with default templates.



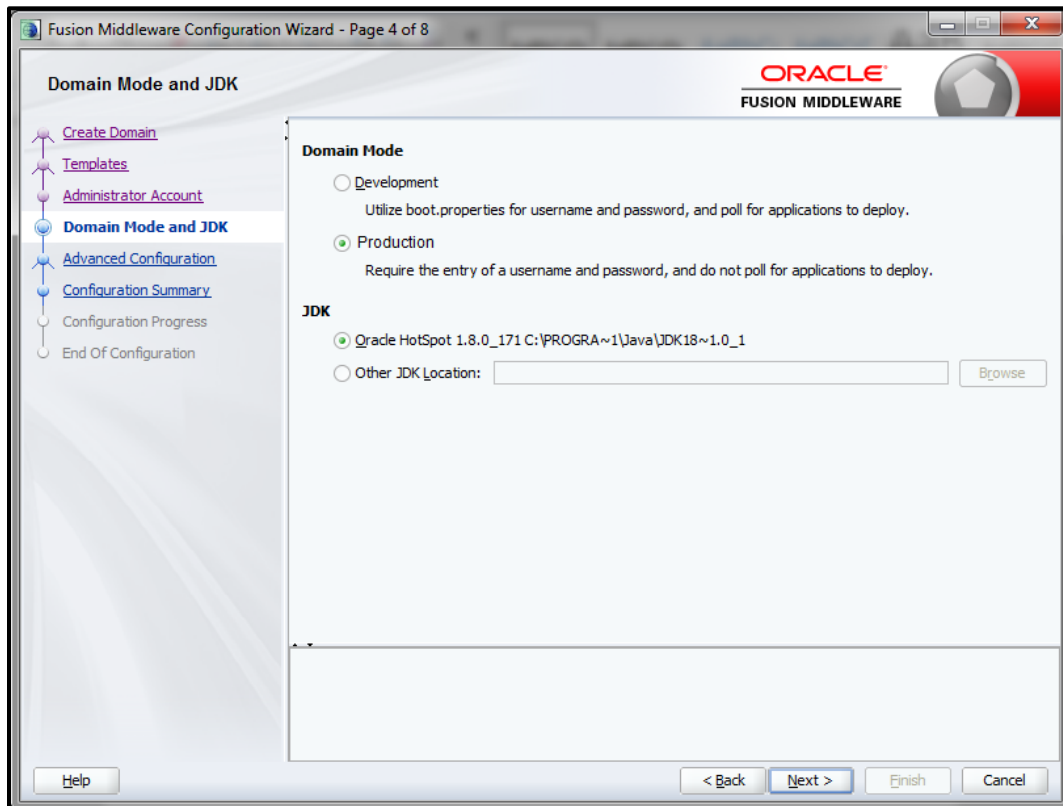


4. Set password and confirm, click **Next** to proceed.



The screenshot shows the 'Administrator Account' step of the Fusion Middleware Configuration Wizard. The left sidebar contains a tree view with the following items: 'Create Domain', 'Templates', 'Administrator Account' (highlighted), 'Domain Mode and JDK', 'Advanced Configuration', 'Configuration Summary', 'Configuration Progress', and 'End Of Configuration'. The main area has three input fields: 'Name', 'Password', and 'Confirm Password'. Below these fields is a note: 'Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.' At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

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

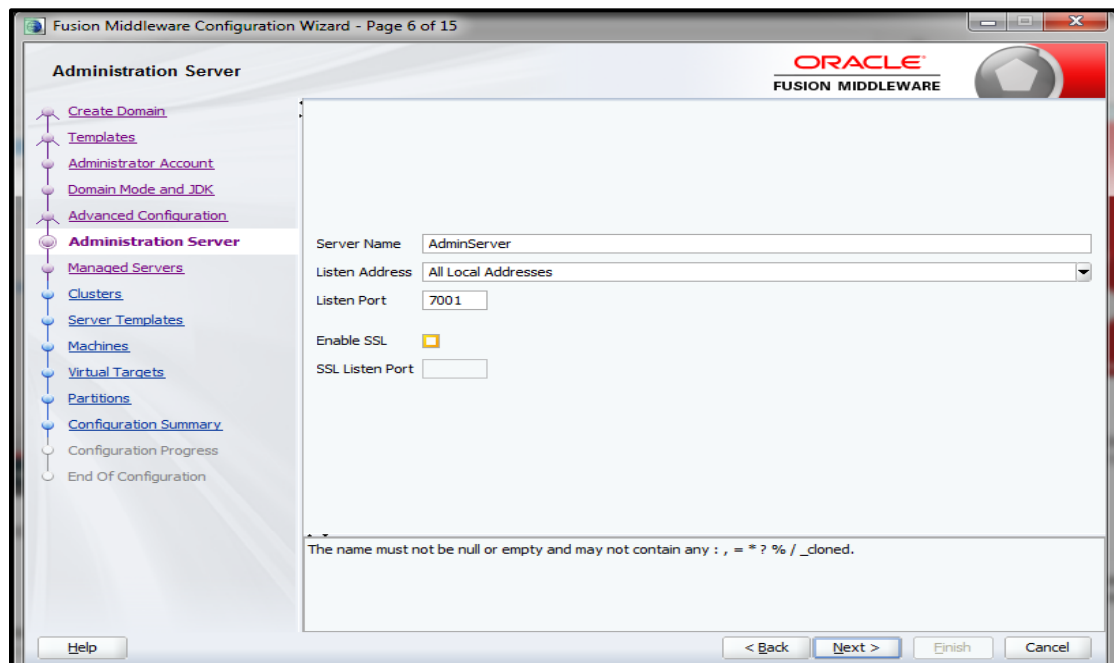


The screenshot shows the 'Domain Mode and JDK' step of the Fusion Middleware Configuration Wizard. The left sidebar is similar to the previous step, but 'Domain Mode and JDK' is highlighted. The main area has two sections: 'Domain Mode' and 'JDK'. Under 'Domain Mode', there are two radio buttons: 'Development' (unselected) and 'Production' (selected). Under 'JDK', there are two radio buttons: 'Oracle HotSpot 1.8.0\_171 C:\PROGRA~1\Java\JDK18~1.0\_1' (selected) and 'Other JDK Location:' (unselected). A 'Browse' button is next to the 'Other JDK Location' text. At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

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

[Create Domain](#)  
[Templates](#)  
[Administrator Account](#)  
[Domain Mode and JDK](#)  
[Advanced Configuration](#)  
[Administration Server](#)  
**Managed Servers**  
[Clusters](#)  
[Server Templates](#)  
[Machines](#)  
[Virtual Targets](#)  
[Partitions](#)  
[Configuration Summary](#)  
Configuration Progress  
End Of Configuration

[Add](#) [Clone](#) [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**.

Fusion Middleware Configuration Wizard - Page 8 of 17

**Clusters**

ORACLE  
FUSION MIDDLEWARE

+ Add - Delete Discard Changes

| Cluster Name            | Cluster Address | Frontend Host | Frontend HTTP Port | Frontend HTTPS Port |
|-------------------------|-----------------|---------------|--------------------|---------------------|
| Config_Cluster          |                 |               | 0                  | 0                   |
| Discovery_Cluster       |                 |               | 0                  | 0                   |
| Api_Gateway_Cluster     |                 |               | 0                  | 0                   |
| Plato_UI_Config_Cluster |                 |               | 0                  | 0                   |
| Plato_Orch_Cluster      |                 |               | 0                  | 0                   |
| Plato_Feed_Cluster      |                 |               | 0                  | 0                   |
| Plato_Batch_Cluster     |                 |               | 0                  | 0                   |
| Plato_Alerts_Managem    |                 |               | 0                  | 0                   |

Help < Back Next > Finish Cancel

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

Fusion Middleware Configuration Wizard - Page 9 of 17

**Server Templates**

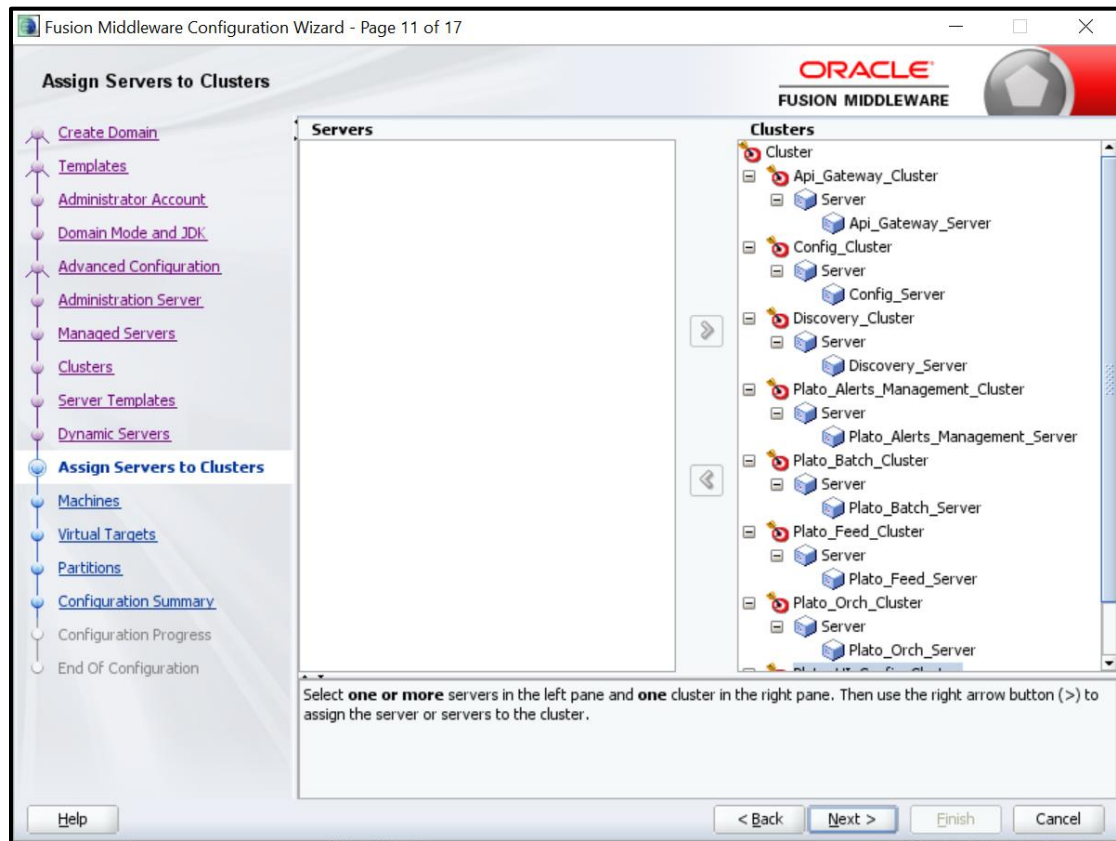
ORACLE  
FUSION MIDDLEWARE

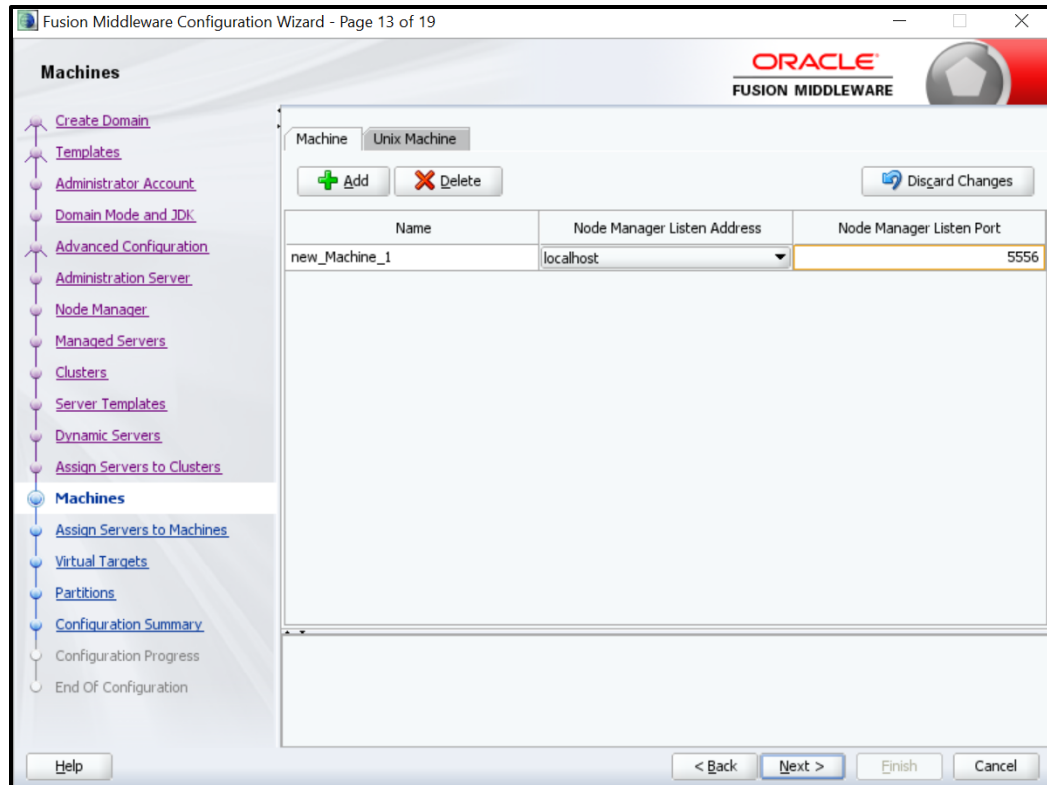
+ Add - Delete Discard Changes

| Name | Listen Port | SSL Listen Port | Enable SSL |
|------|-------------|-----------------|------------|
|------|-------------|-----------------|------------|

Help < Back Next > Finish Cancel

## 11. Assign clusters with servers.

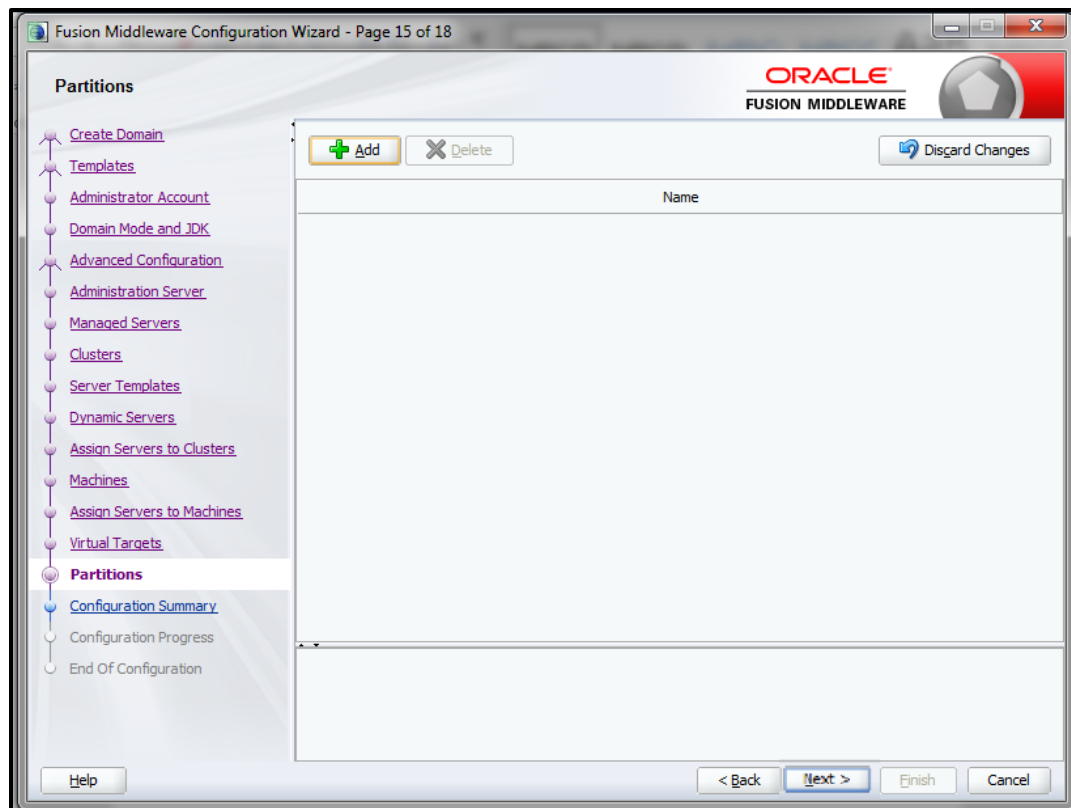
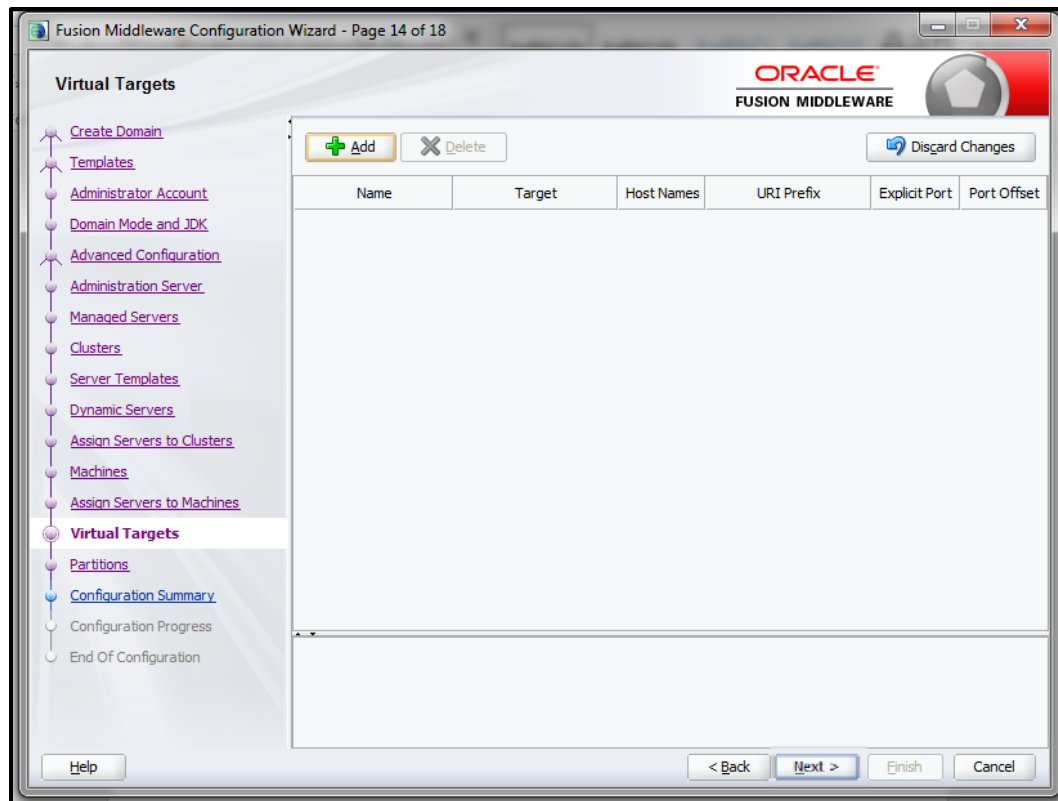
12. Add **Machine/Unix Machine** based on operating system and configure **Name**, **Node Manager Listen Address** and **Node Manager Listen Port** as required.



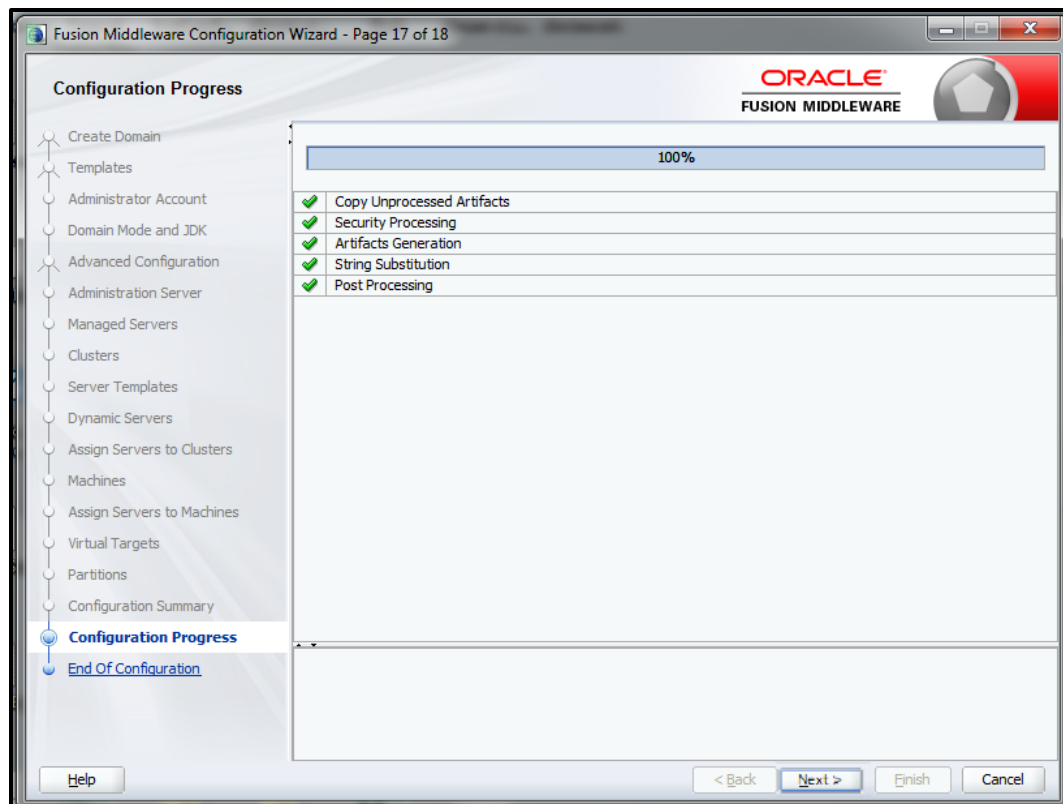
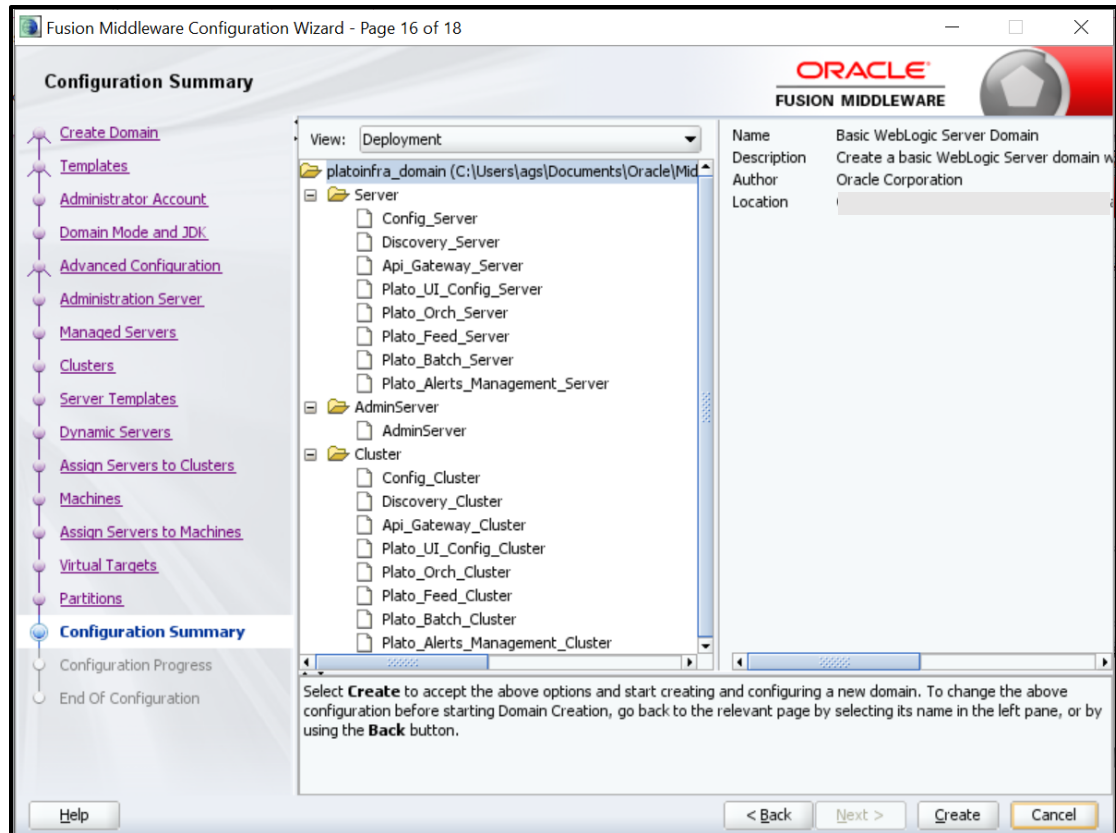
13. Map all managed servers under the machine created.



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

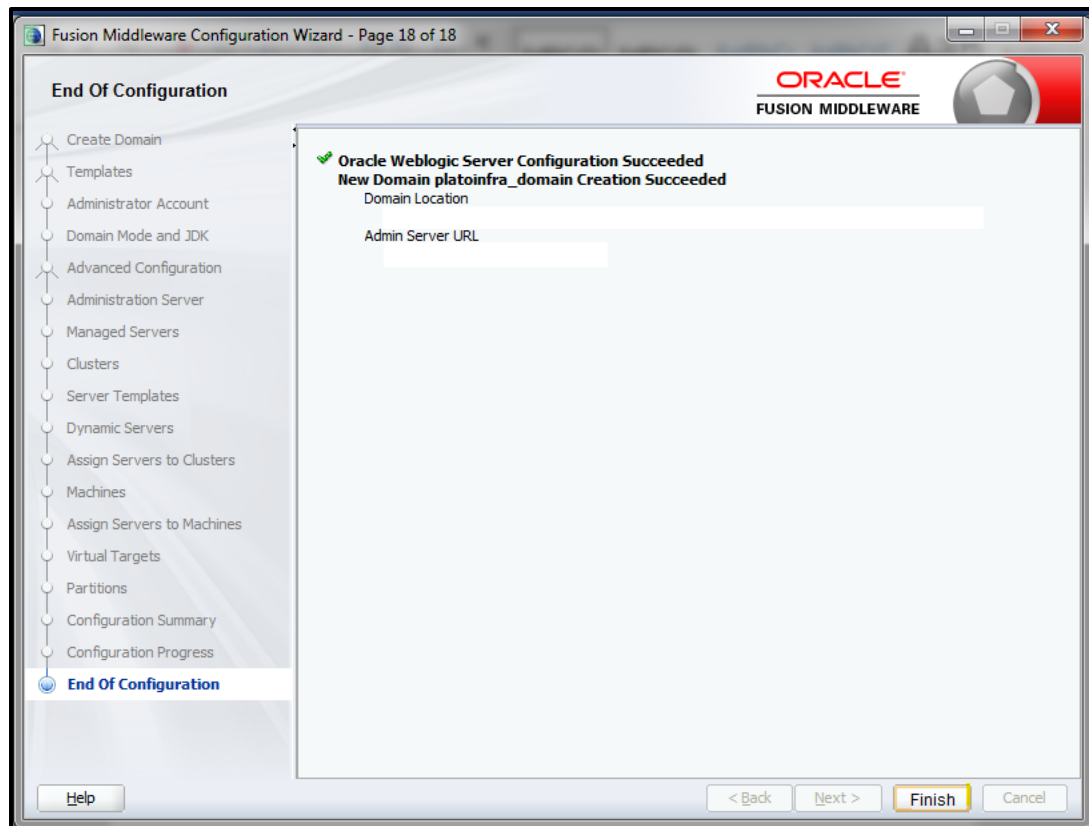


15. Check the **Configuration Summary** and confirm creating domain.



16. Click **Finish** to complete the procedure.





## 2.3.2 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:

**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.

Now Clone Delete Showing 1 to 9 of 9 Previous Next

| Name                           | Type       | Cluster                         | Machine            | State    | Health        | Listen Port |
|--------------------------------|------------|---------------------------------|--------------------|----------|---------------|-------------|
| AdminServer(admin)             | Configured |                                 | platoinfra_Machine | RUNNING  | OK            | 7001        |
| APl_Gateway_Server             | Configured | APl_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        |

Now Clone Delete Showing 1 to 9 of 9 Previous Next

**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...**

- Create Managed Servers
- Clone servers
- Delete Managed Servers
- Delete the Administration Server
- Start and stop servers
- View objects in the JNDI tree

**System Status**

Health of Running Servers as of 6:00 PM

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

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...

- Configure clusters
- Assign server instances to clusters
- Configure server migration in a cluster
- Configure cross-cluster replication
- Create dynamic clusters

Home Log Out Preferences [Add](#) [Record](#) [Help](#)

Welcome, Connected to: platoinfra\_domain

Home > Summary of Deployments > Summary of Servers > Summary of Clusters

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.

Customize this table

Clusters (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 8 of 8 Previous Next

|  | Name                            | Cluster Address | Cluster Messaging Mode | Migration Basis | Default Load Algorithm | Replication Type | Cluster Broadcast Channel | S |
|--|---------------------------------|-----------------|------------------------|-----------------|------------------------|------------------|---------------------------|---|
|  | Apl_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 |

New Clone Delete

Showing 1 to 8 of 8 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

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...

- Configure clusters
- Assign server instances to clusters
- Configure server migration in a cluster
- Configure cross-cluster replication
- Create dynamic clusters

Home Log Out Preferences [Add](#) [Record](#) [Help](#)

Welcome, Connected to: platoinfra\_domain

Home > Summary of Deployments > Summary of Servers > Summary of Clusters > Summary of Machines

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.

Customize this table

Machines

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

New Clone Delete

Showing 1 to 1 of 1 Previous Next

|  | Name               | Type    |
|--|--------------------|---------|
|  | platoinfra_Machine | Machine |

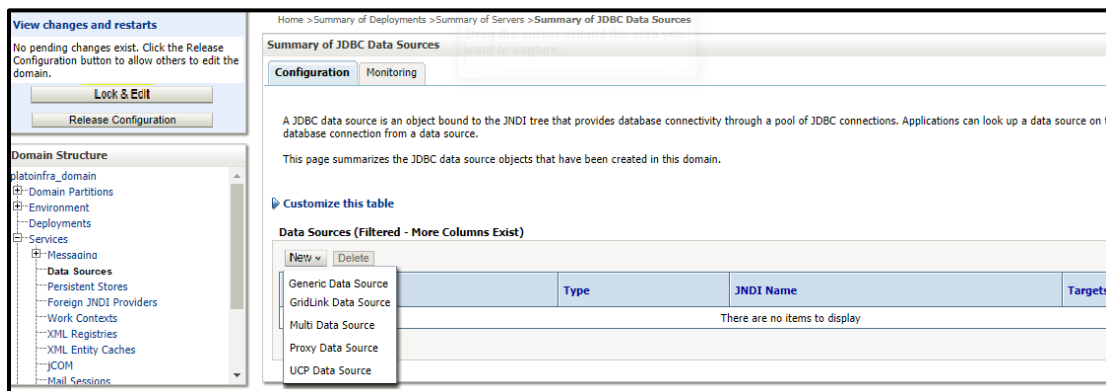
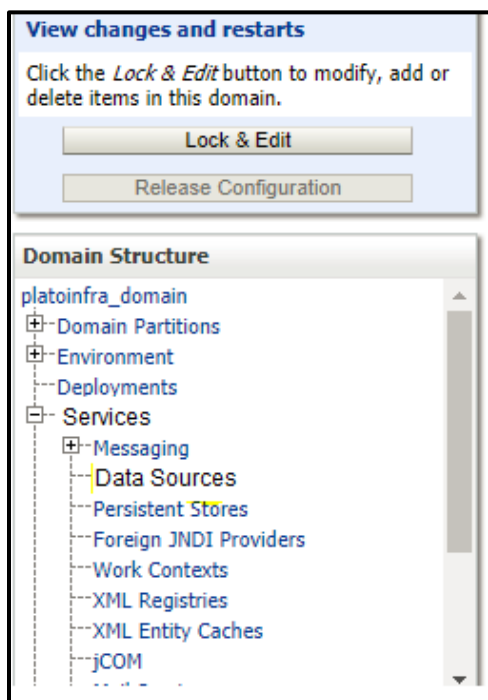
New Clone Delete

Showing 1 to 1 of 1 Previous Next

## 2.4 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**



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

Back Next Finish Cancel

**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 data source can participate in the global transaction.

☒ One-Phase Commit

Back Next Finish Cancel

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

Back Next Finish Cancel

**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.

**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

☒ Plato\_Batch\_Cluster  
☐ All servers in the cluster  
☒ Part of the cluster  
☒ Plato\_Batch\_Server

☒ Plato\_Feed\_Cluster  
☐ All servers in the cluster  
☒ Part of the cluster  
☒ Plato\_Feed\_Server

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

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

The screenshot shows the 'Change Center' on the left with a 'View changes and restarts' section. It indicates 'Pending changes exist. They must be activated to take effect.' and provides buttons for 'Activate Changes' and 'Undo All Changes'. Below this is the 'Domain Structure' showing 'platoinfra\_domain' and 'Domain Partitions'. The main content area on the right is titled 'Summary of JDBC Data Sources' and has tabs for 'Configuration' and 'Monitoring'. It explains that a JDBC data source is an object bound to the JNDI tree and provides database connectivity. It also states that the page summarizes the JDBC data source objects created in the domain.

This screenshot shows the 'Summary of JDBC Data Sources' page after the changes have been activated. The 'Change Center' on the left now shows 'Lock & Edit' and 'Release Configuration' buttons. The main content area shows a message: 'All changes have been activated. No restarts are necessary.' Below this, there is a 'Customize this table' section and a table titled 'Data Sources (Filtered - More Columns Exist)'. The table has columns for Name, Type, JNDI Name, and Targets. The first row shows 'PLATO' as a Generic JDBC data source with targets including 'Api\_Gateway\_Server', 'Config\_Server', 'Discovery\_Server', 'Plato\_Alerts\_Management\_Server', 'Plato\_Batch\_Server', and 'Plato\_Feed\_Server'.

## 2.5 How to Deploy Application

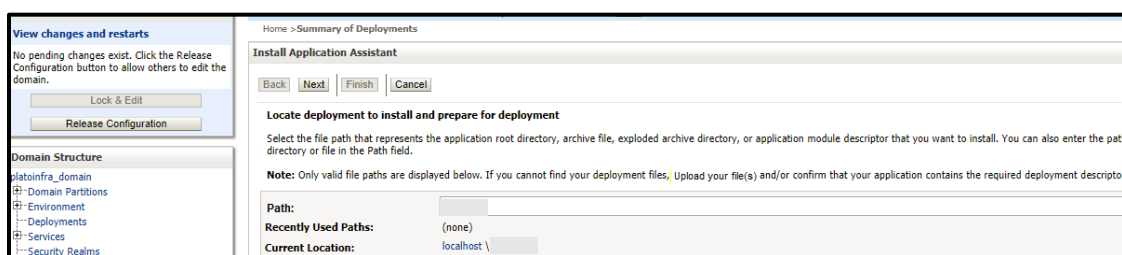
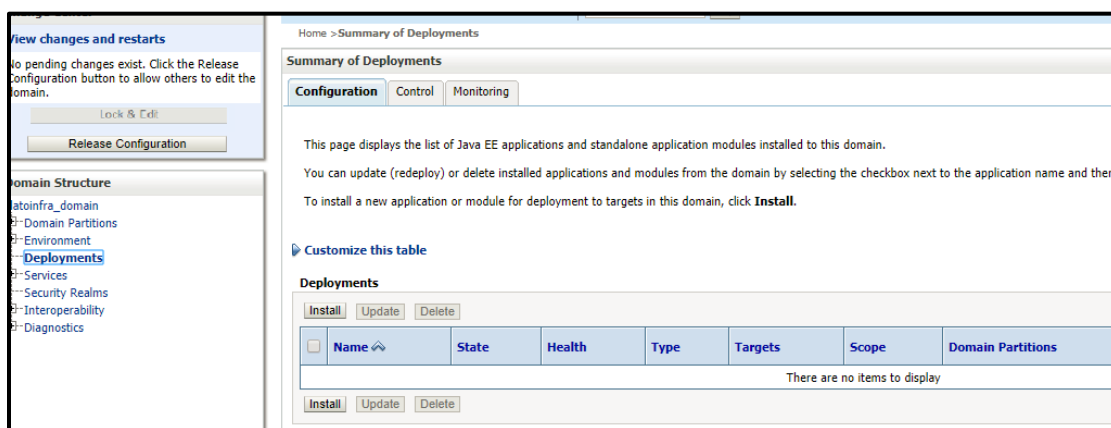
Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain, where we deploy will differ. Perform the following steps to see how deployment of archive as application is done on weblogic:

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

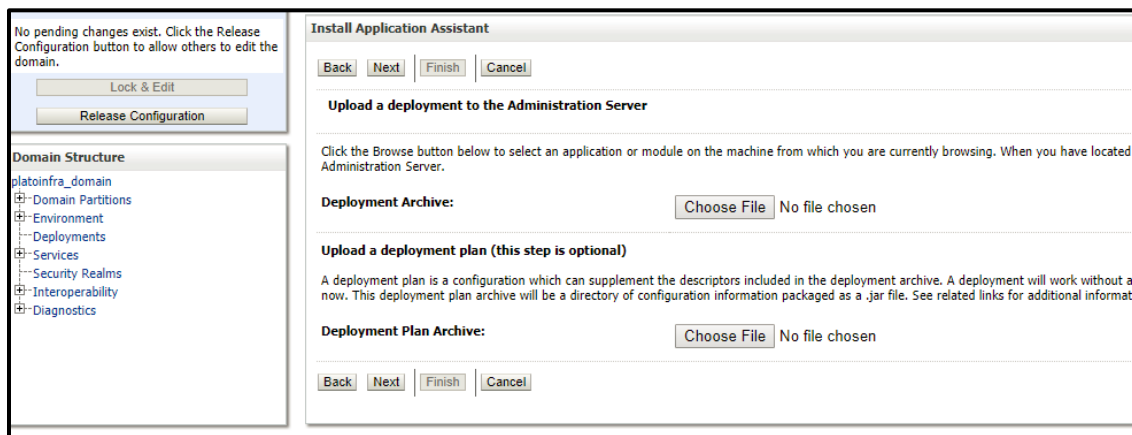
The screenshot shows the Oracle WebLogic Console Home Page. On the left is a 'Domain Structure' tree with 'platoinfra\_domain' selected, showing sub-nodes like 'Domain Partitions', 'Environment', 'Deployments', 'Services', 'Security Realms', 'Interoperability', and 'Diagnostics'. The main content area is titled 'Home Page' and contains sections for 'Information and Resources' (with links like 'Configure applications', 'Configure GridLink for RAC Data Source', etc.), 'Domain Configurations' (listing 'Domain', 'Domain Partitions', 'Partition Work Managers'), 'Resource Group Templates', 'Resource Groups', 'Deployed Resources', 'Interoperability', and 'Diagnostics'.



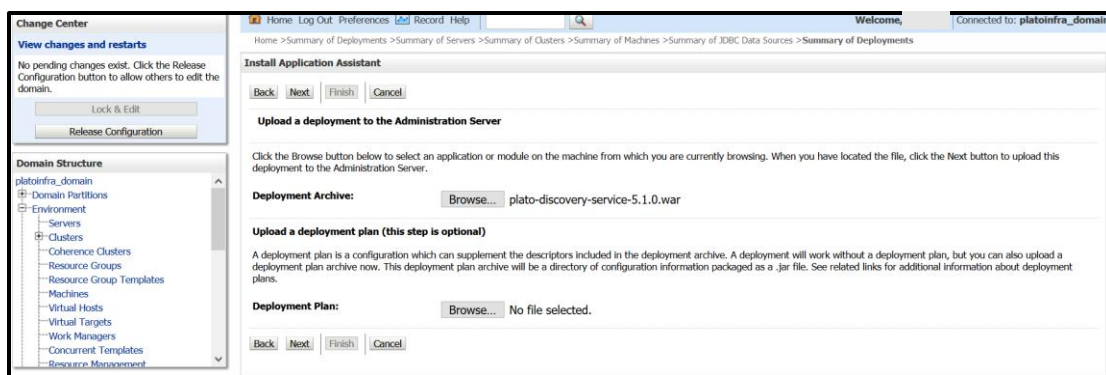
2. Click on **Lock and Edit** and then click **Install**.

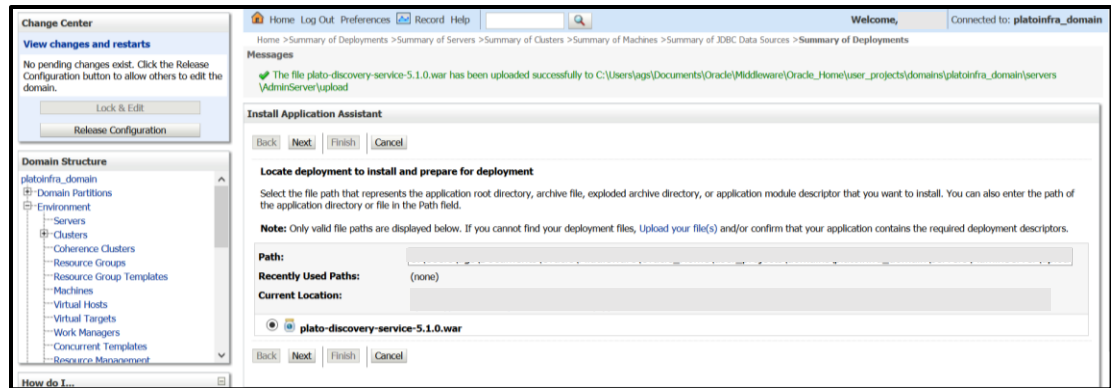


3. Click **Upload your file(s)** to select archive, **Choose File** and click **Next**.

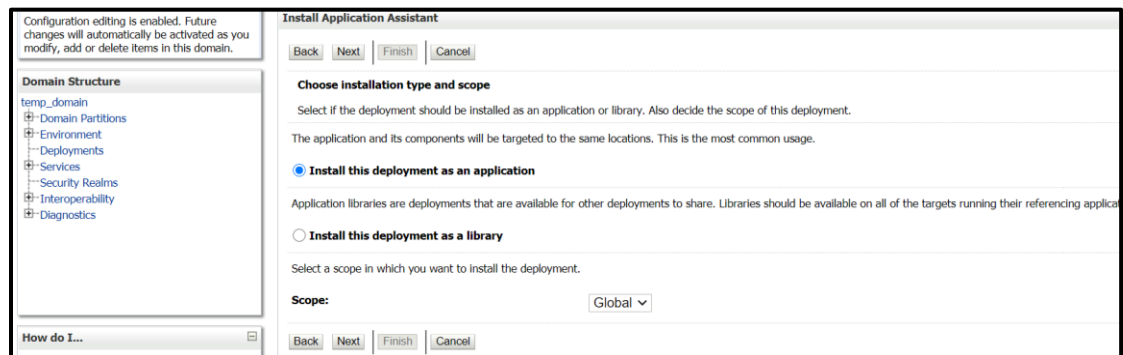


4. After archive is uploaded, click **Next**.

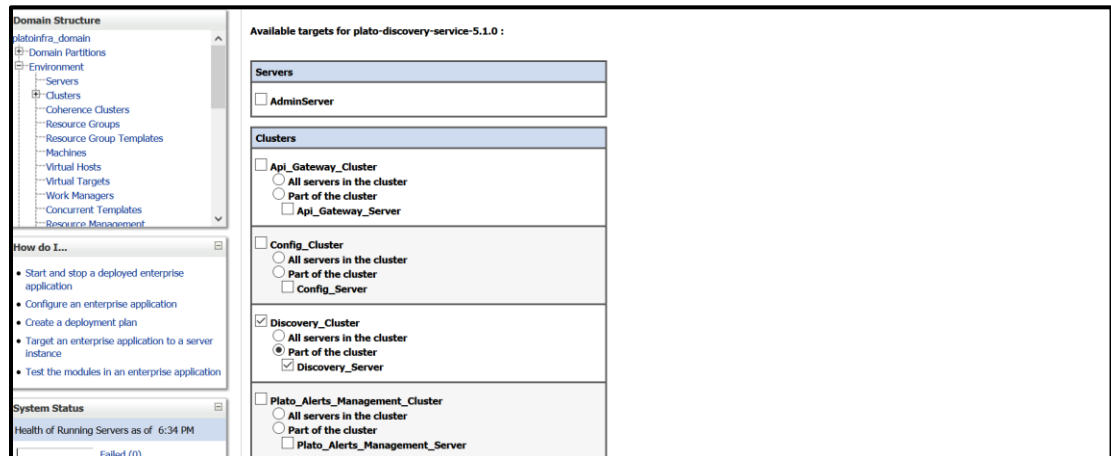




5. Select option **Install this deployment as an application** and click **Next**.



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



**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 a deployed enterprise application
- Configure an enterprise application
- Create a deployment plan
- Target an enterprise application to a server instance

**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:**

**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**

[Deployer Desktop Update](#)

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

**Change Center**

**View changes and restarts**

Pending changes exist. They must be activated to take effect.

[Activate Changes](#)

[Undo All Changes](#)

**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
- Update (redeploy) an enterprise application

**Messages**

✓ The deployment has been successfully installed.

✓ You must also activate the pending changes to commit this, and other updates, to the active system.

**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<br>Initializing |        | Web<br>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

**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

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

**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  
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

**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  
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

**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.

**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

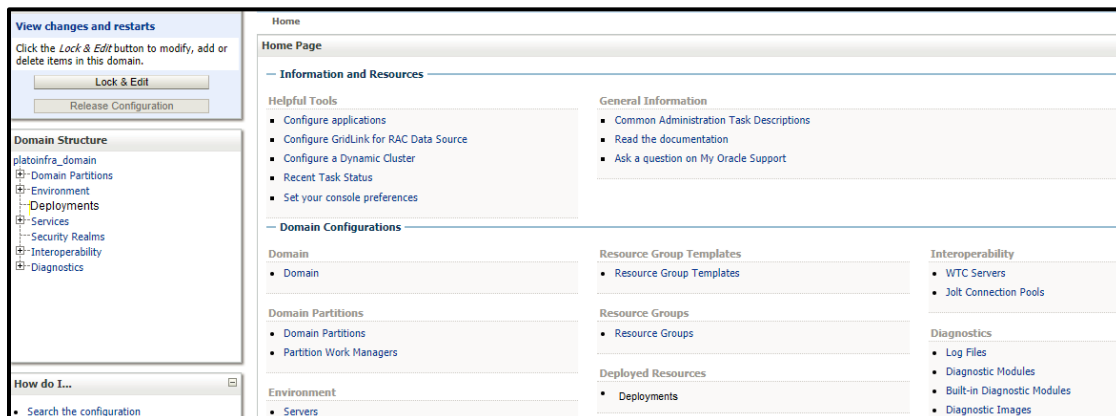
**Domain Structure**  
platoinfra\_domain  
Domain Partitions  
Environment  
Servers  
Clusters  
Coherence Clusters  
Resource Groups  
Resource Group Templates  
Machines  
Virtual Hosts  
Virtual Targets  
Work Managers  
Concurrent Templates  
Resource Management  
Deployments

**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 update (redploy) 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  
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

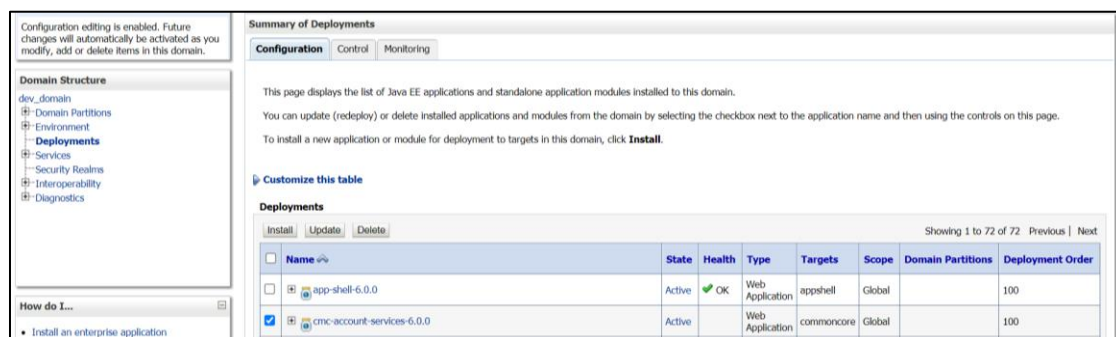
## 2.6 How to Undeploy Application

Login into weblogic server with the proper credentials.

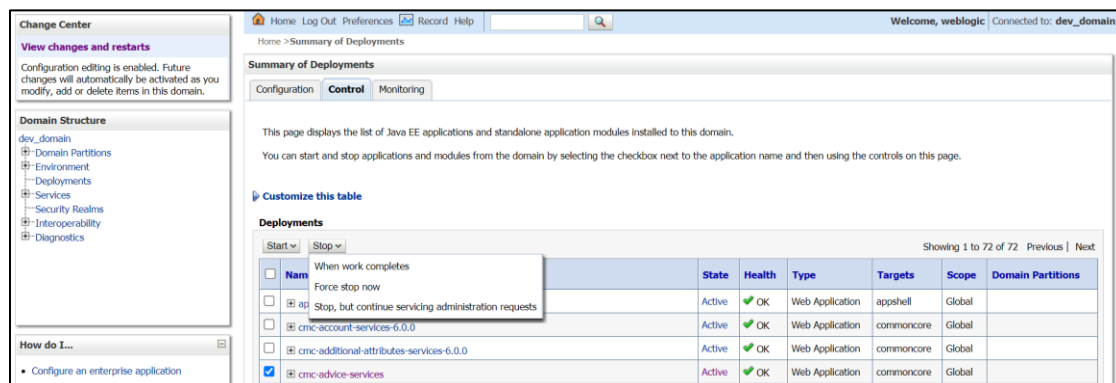
1. Navigate to left menu and select **Deployments**.



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.



- 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              |

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

## 2.7 How to Restart Servers

Perform the following steps to restart servers:

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

**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**

- temp\_domain
  - Domain Partitions
  - Environment
    - Servers**
    - Clusters
      - Coherence Clusters
      - Resource Groups
      - Resource Group Templates
      - Machines
      - Virtual Hosts
      - Virtual Targets
      - Work Managers
      - Concurrent Templates
      - Resource Management

- Click **Control** tab.



**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 Administration Console
- Restart SSL
- Start Managed Servers in Admin mode
- Start Managed Servers in a cluster

**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  | None                  |
| <input type="checkbox"/> Plato_Alerts_Management_Server | platoinfra_Machine | SHUTDOWN | None                  |
| <input type="checkbox"/> Plato_Batch_Server             | platoinfra_Machine | SHUTDOWN | None                  |
| <input type="checkbox"/> Plato_Feed_Server              | platoinfra_Machine | SHUTDOWN | None                  |
| <input type="checkbox"/> Plato_Orch_Server              | platoinfra_Machine | SHUTDOWN | None                  |
| <input type="checkbox"/> Plato_UI_Config_Server         | platoinfra_Machine | SHUTDOWN | None                  |

### 3. Select servers to **Shutdown**

**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 Administration Console
- Restart SSL
- Start Managed Servers in Admin mode
- Start Managed Servers in a cluster

**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 checked="" type="checkbox"/> Discovery_Server | platoinfra_Machine | RUNNING  | None                  |

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

**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 Administration Console
- Restart SSL
- Start Managed Servers in Admin mode
- Start Managed Servers in a cluster

**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:

**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 Administration Console
- Restart SSL
- Start Managed Servers in Admin mode
- Start Managed Servers in a cluster

**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 | 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)

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"/> 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        |

**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

**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"/> Apl_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.

**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.

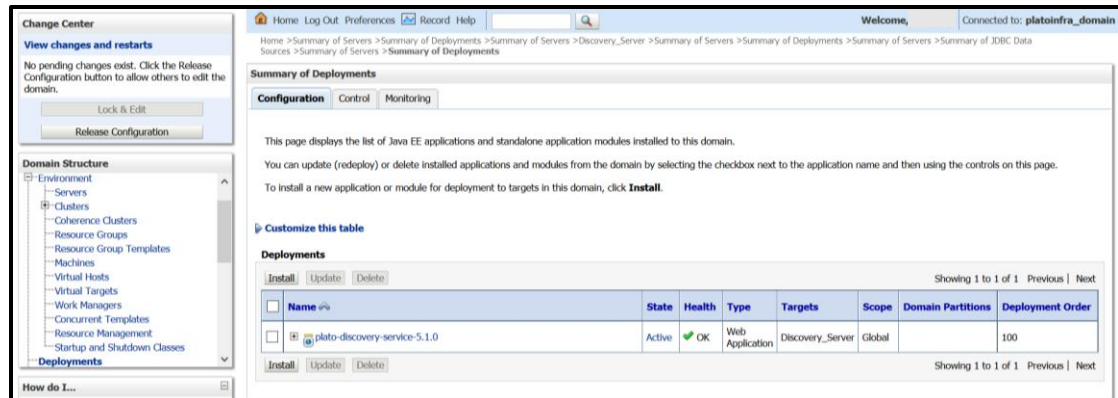
[Customize this table](#)

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"/> Apl_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        |

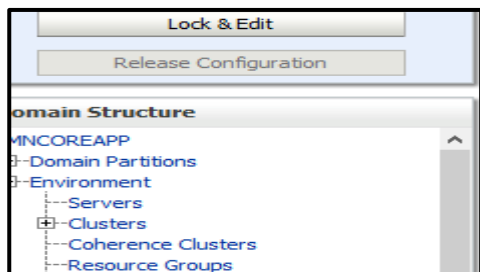




## 2.8 How to Check Port Number

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        |

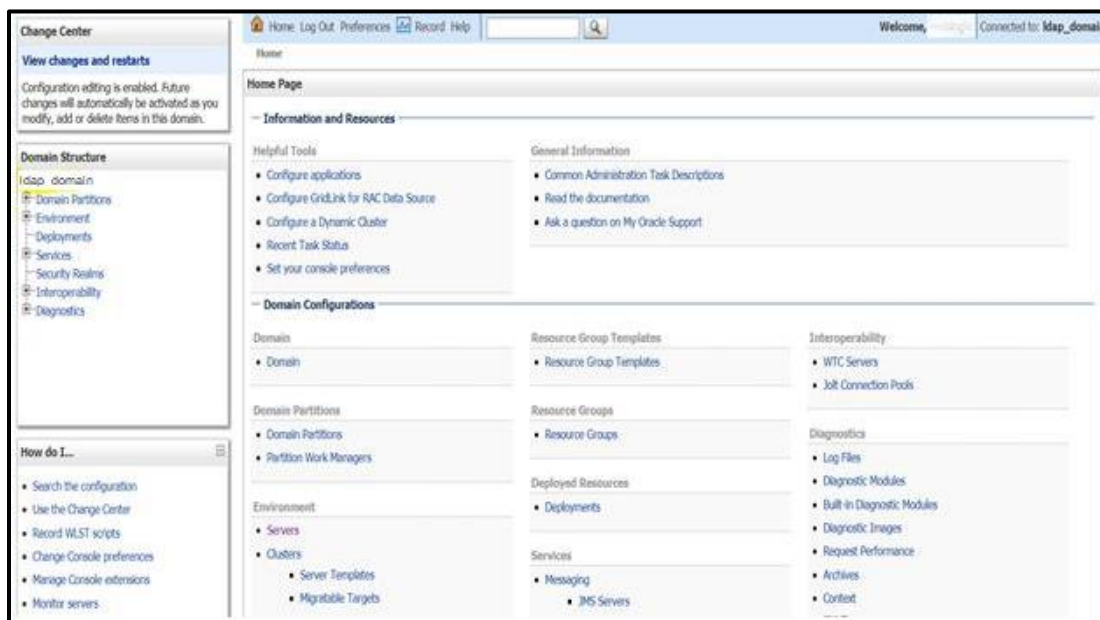
## 2.9 Weblogic Embedded LDAP Setup

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

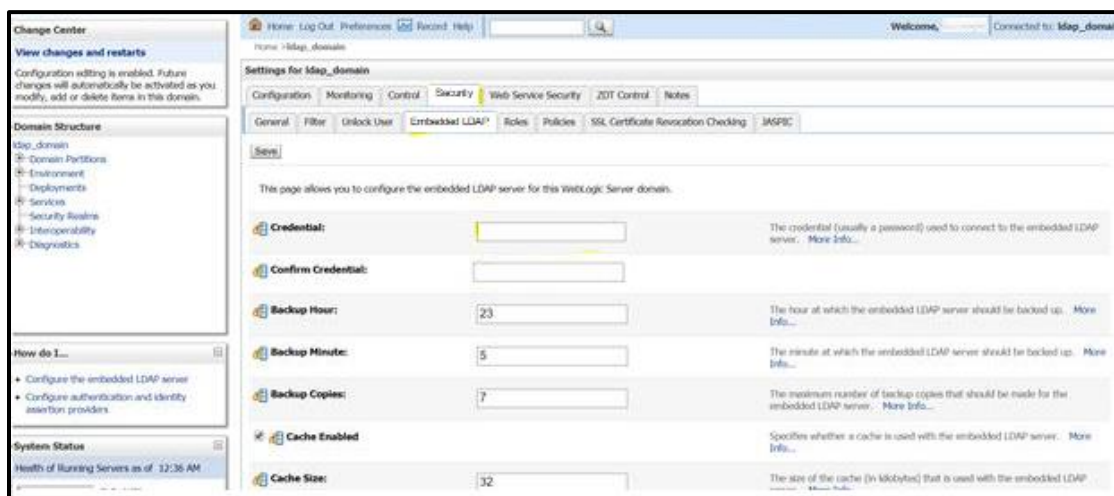
- Configuration of Weblogic LDAP
- Creation of Users
- Plato Security Config Table Entries

## 2.9.1 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.



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

**Settings for ldap\_domain**

Configuration | Monitoring | Control | **Security** | Web Service Security | ZOT Control | Notes

General | Filter | Unlock User | **Embedded LDAP** | Roles | Policies | SSL Certificate Revocation Checking | JASPER

**Credential:** [ ] The credential (usually a password) used to connect to the embedded LDAP server. [More Info...](#)

**Confirm Credential:** [ ]

**Backup Hour:** [23] The hour at which the embedded LDAP server should be backed up. [More Info...](#)

**Backup Minute:** [5] The minute at which the embedded LDAP server should be backed up. [More Info...](#)

**Backup Copies:** [7] The minimum number of backup copies that should be made for the embedded LDAP server. [More Info...](#)

☒ **Cache Enabled** Specifies whether a cache is used with the embedded LDAP server. [More Info...](#)

**Cache Size:** [32] The size of the cache (in kilobytes) that is used with the embedded LDAP server. [More Info...](#)

## 2.9.2 Creation of Users

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

**Summary of Security Realms**

A security realm is a container for the mechanisms—including users, groups, security roles, security policies, and security providers—that are used in a WebLogic Server domain, but only one can be set as the default security realm, which is reserved for domain administrative purposes.

This Security Realms page lists each security realm that has been configured in this WebLogic Server domain. Click the name of the realm to view its configuration.

[Customize this table](#)

| Realms (Filtered - More Columns Exist) |                      |
|----------------------------------------|----------------------|
| <input type="checkbox"/> <b>Name</b>   | <b>Default Realm</b> |
| <input type="checkbox"/> myrealm       | true                 |

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

**Settings for myrealm**

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

**Groups**

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

[Customize this table](#)

| Name                                           | Description                                                                                          |
|------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> AdminChannelUsers     | AdminChannelUsers can access the admin channel.                                                      |
| <input type="checkbox"/> Administrators        | Administrators can view and modify all resource attributes and start and stop servers.               |
| <input type="checkbox"/> AppTesters            | AppTesters group.                                                                                    |
| <input type="checkbox"/> CrossDomainConnectors | CrossDomainConnectors can make inter-domain calls from foreign domains.                              |
| <input type="checkbox"/> Deployers             | Deployers can view all resource attributes and deploy applications.                                  |
| <input type="checkbox"/> Monitors              | Monitors can view and modify all resource attributes and perform operations not restricted by roles. |
| <input type="checkbox"/> Operators             | Operators can view and modify all resource attributes and perform server lifecycle operations.       |
| <input type="checkbox"/> OracleSystemGroup     | Oracle application software system group.                                                            |

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

**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**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
├─ Deployments  
├─ Services  
├─ Security Realms  
├─ Interoperability  
└─ Diagnostics

**How do I...**  
• Create groups  
• Modify groups  
• Delete groups

Home > temp\_domain > Summary of Security Realms > myrealm > Users and Groups

**Create a New Group**  
OK Cancel

**Group Properties**  
The following properties will be used to identify your new Group.  
\* Indicates required fields

What would you like to name your new Group?

\* **Name:** Developers

How would you like to describe the new Group?

**Description:** Group for Developers

Please choose a provider for the group.

**Provider:** DefaultAuthenticator

OK Cancel

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

**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**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
├─ Deployments  
├─ Services  
├─ Security Realms  
├─ Interoperability  
└─ Diagnostics

**How do I...**  
• Create users  
• Modify users  
• Delete users  
• Create groups  
• Manage users and groups

**System Status**  
Health of Running Servers as of 12:48 AM  
Failed (0)

Home Log Out Preferences Record Help

Home > temp\_domain > Summary of Security Realms > myrealm > Users and Groups

**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

| 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.                                                          |

New Delete

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

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

**Domain Structure**  
temp\_domain  
├─ Domain Partitions  
├─ Environment  
├─ Deployments  
├─ Services  
├─ Security Realms  
├─ Interoperability  
└─ Diagnostics

**How do I...**  
• Create users  
• Modify users  
• Delete users  
• Create groups  
• Manage users and groups

**System Status**  
Health of Running Servers as of 12:48 AM  
Failed (0)

Create a New User  
OK Cancel

**User Properties**  
The following properties will be used to identify your new User.  
\* Indicates required fields

What would you like to name your new User?

\* **Name:** testuser

How would you like to describe the new User?

**Description:** user for testing

Please choose a provider for the user.

**Provider:** DefaultAuthenticator

The password is associated with the login name for the new User.

\* **Password:** \*\*\*\*\*

\* **Confirm Password:** \*\*\*\*\*

OK Cancel

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**.

**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**  
temp\_domain  
├── Domain Partitions  
├── Environment  
├── Deployments  
├── Services  
├── Security Realms  
├── Interoperability  
└── Diagnostics

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  
☐ Monitors  
☐ OracleSystemGroup

**Chosen:**  
☐ Deployers  
☐ Operators

Save

### 2.9.3 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 | ylksiMFjVbfcpA7Qheh8Q==  | 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. |

## **2.10 Oracle Analytic Server Setup**

This section contains the following sub-sections:

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

### **2.10.1 Prerequisite**

Perform the following steps:

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

### **2.10.2 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.

### 2.10.3 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.

### 2.10.4 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.