

ANNEXURE – 1  
Oracle FLEXCUBE Onboarding  
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# Table of Contents

<b>1. ANNEXURE - 1</b> .....	<b>1-1</b>
1.1 INTRODUCTION .....	1-1
1.2 PLACEHOLDER UPDATE FOR PLATO-SERVICES .....	1-1
1.2.1 Method 1 – Via setUserOverrides.sh file.....	1-1
1.2.2 Method 2 – Via passing the -D params in the Server start argument.....	1-5
1.2.3 Method 3 – Using env files and setUserOverrides.sh file.....	1-7
1.2.4 Method 4 - Workflow Configuration.....	1-14
1.3 HOW TO CREATE DOMAIN AND CLUSTER CONFIGURATION.....	1-17
1.3.1 Domain Creation Configuration .....	1-18
1.3.2 Post Domain Creation Configurations.....	1-27
1.4 HOW TO CREATE DATASOURCE.....	1-29
1.5 HOW TO DEPLOY APPLICATION .....	1-33
1.6 HOW TO RESTART SERVERS.....	1-38
1.7 HOW TO CHECK PORT NUMBER .....	1-41
1.8 WEBLOGIC EMBEDDED LDAP SETUP.....	1-41
1.8.1 Configuration of Weblogic LDAP.....	1-41
1.8.2 Creation of Users .....	1-42
1.8.3 Plato Security Config Table Entries .....	1-45
1.9 ORACLE ANALYTIC SERVER SETUP .....	1-46
1.9.1 Prerequisite .....	1-46
1.9.2 Start BI Server .....	1-46
1.9.3 Upload BI Reports .....	1-47
1.9.4 Test BI Reports .....	1-47

## 1.1 Introduction

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

## 1.2 Placeholder Update for Plato-Services

The Placeholder update can be performed in the following methods:

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

### 1.2.1 Method 1 – Via setUserOverrides.sh file

Perform the following steps:

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

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

```
JAVA_OPTIONS="{JAVA_OPTIONS} -DParam =<ParamValue>"  
export JAVA_OPTIONS
```

#### **//Common Properties**

```
-Dplato.services.config.port= <CONFIG_SERVICE_PORT>  
-Dplato.services.config.uri=  
http://<CONFIG_SERVICE_HOSTNAME>:<CONFIG_SERVICE_PORT>  
-Deureka.client.serviceUrl.defaultZone=  
http://<DISCOVERY_SERVICE_HOST>:<DISCOVERY_SERVICE_PORT>/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>

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

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

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

Summary of Servers

**Configuration** Control

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

[Customize this table](#)

**Servers (Filtered - More Columns Exist)**

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

New Clone Delete Showing 1 to 2 of 2 Previous Next

<input type="checkbox"/>	Name ↕	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured		whf00dkx	RUNNING	✓ OK	7001
<input type="checkbox"/>	managed1_server	Configured		whf00dkx	RUNNING	✓ OK	7003

New Clone Delete Showing 1 to 2 of 2 Previous Next

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

Settings for managed1\_server

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

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

Web Services Coherence

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

Save

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



### 1.2.3 Method 3 – Using env files and setUserOverrides.sh file

Perform the following steps:

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

```
#!/bin/bash
# shellcheck disable=SC1090
# Common functions

set -e -x

config_file=""
PLATO_CONFIG_MANAGED_SERVER_NAME=""

# This file is used only for PLATO-CONFIG service
plato_config_file="${DOMAIN_HOME}/bin/plato-config-deploy.env"

# This file is used for rest of the services
domain_config_file="${DOMAIN_HOME}/bin/domain-config-deploy.env"

if [ -f "$plato_config_file" ]; then
    PLATO_CONFIG_MANAGED_SERVER_NAME=`cat ${DOMAIN_HOME}/bin/plato-config-deploy.env | grep "PLATO_CONFIG_MANAGED_SERVER_NAME" | cut -d=' ' -f2`
fi

if [ "${SERVER_NAME}" = "${PLATO_CONFIG_MANAGED_SERVER_NAME}" ]; then
    # This will get executed only for Plato-config service entries
    config_file="${plato_config_file}"
else
    # This will get executed for all other services
    config_file="${domain_config_file}"
fi

if [ -f "$config_file" ]
then
    while read -r prop || [ -n "$prop" ]
    do
        case "$prop" in \#*) continue ;; esac
        if [ -z "${prop}" ]; then
            continue
        else
            PLACEHOLDERS=${PLACEHOLDERS}" $(echo -D$prop)
            PLACEHOLDERS=${PLACEHOLDERS}"
        fi
    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-widiget-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=
```

```
### generic entries for all services ###
```

```
spring.cloud.config.uri=  
apigateway.url=  
service.logging.environment=  
service.logging.path=
```

#### **domain-config-deploy.env**

```
### domain config flyway connection entries ###
```

```
flywayTask=migrate  
flyway.enabled=true  
spring.flyway.enabled=false
```

```
### generic entries for all services ###
```

```
spring.cloud.config.uri=  
apigateway.url=  
service.logging.environment=  
service.logging.path=
```

### **1.2.4 Method 4 – Workflow Configuration**

Follow the below steps to create a workflow:

1. Metadata of the workflow creation. The sample DSL for workflow creation is given below:

```
{  
  "name": "initialTest",  
  "description": "Test workflow",  
  "version": 4,  
  "tasks": [  
    {  
      "name": "TEST",  
      "taskReferenceName": "TESTING3",  
      "description": "TESTING2",  
      "inputParameters": {  
        "FUNCTIONAL_CODE": "TEST_FA_ILS_REGTN2",  
        "processRefNo":  
        "${workflow.input.transactionModel.txnIdentification.processRefNo}",  
        "processName": "Testing Process2",  
        "processCode":  
        "${workflow.input.transactionModel.txnIdentification.processName}",
```



```

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

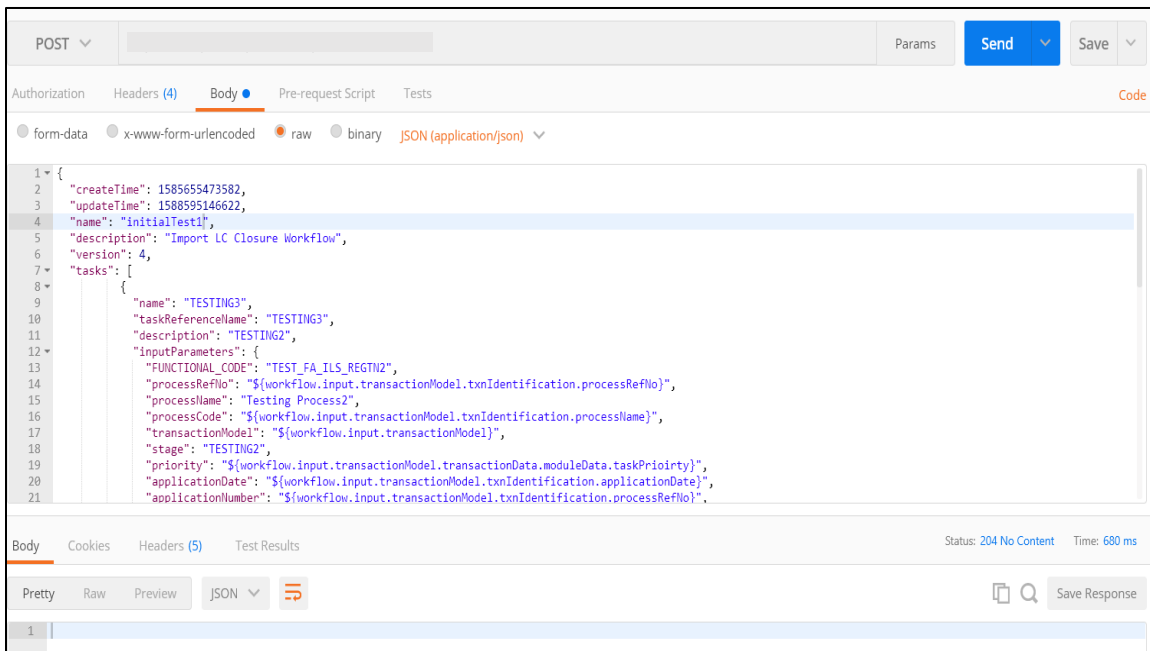
```

```

    "stage": "CLMO_FA_SNPOAR_APPEN",
    "taskOutcome": "PROCEED_WITH_PARTICIPANT"
  },
  "schemaVersion": 2,
  "restartable": true,
  "workflowStatusListenerEnabled": false
}

```

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



## 2. Workflow Creation

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

Body:

```

{
  "name": "initialTest",
  "description": "initialTest",
  "version": 4,
  "input": {
    "transactionModel": {
      "transactionData": {
        "moduleData": {
          "amount": 122,
          "currency": "GBP",
          "customerId": "001506",
          "customerName": "MARKS AND SPENCER",

```

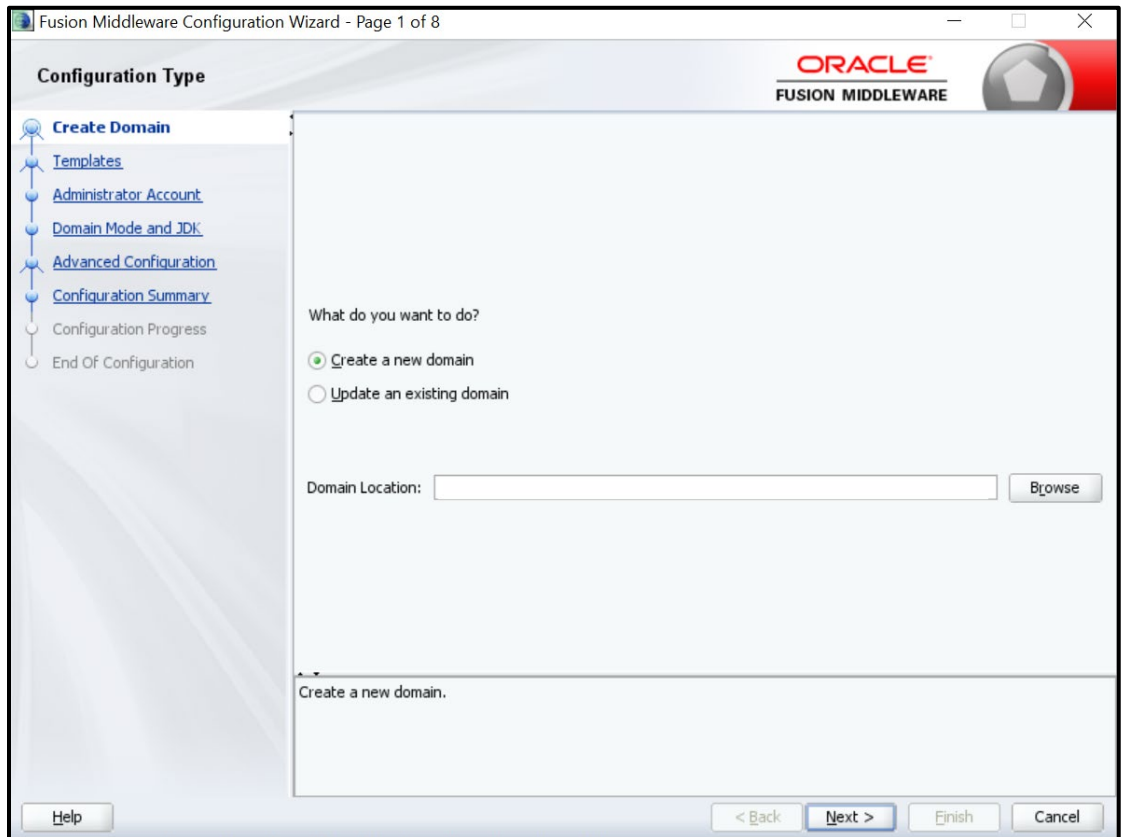


### 1.3.1 Domain Creation Configuration

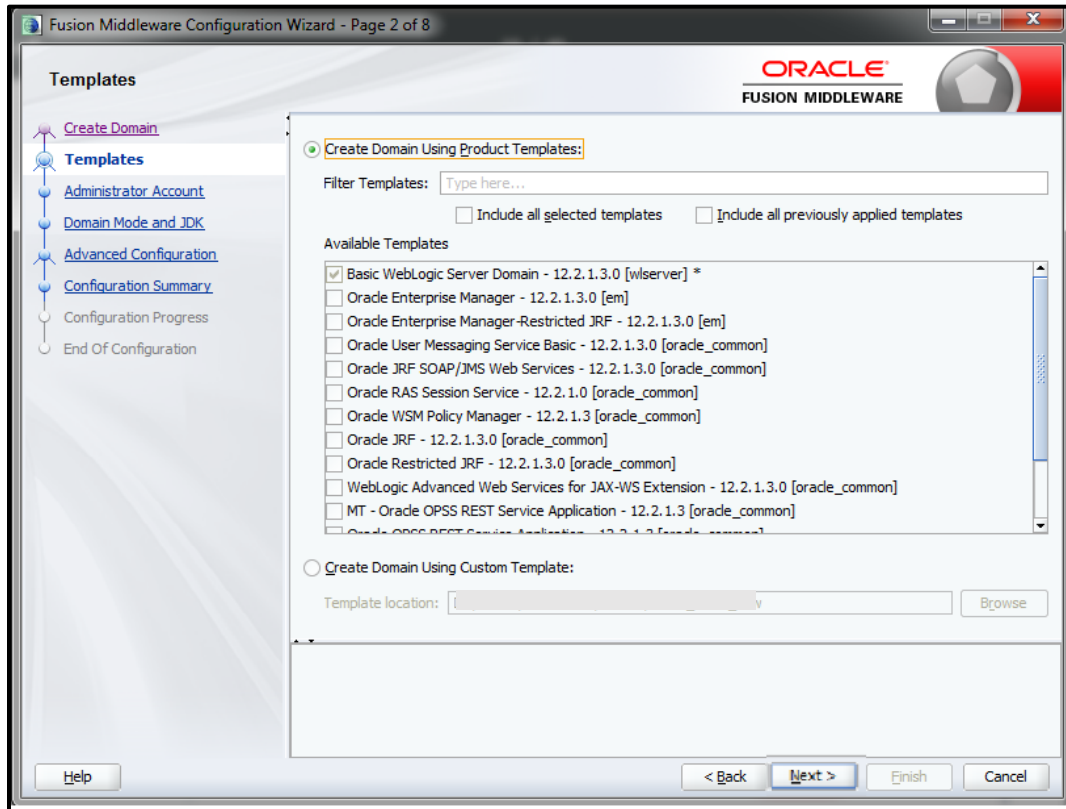
Perform the following steps for domain and cluster configuration:

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

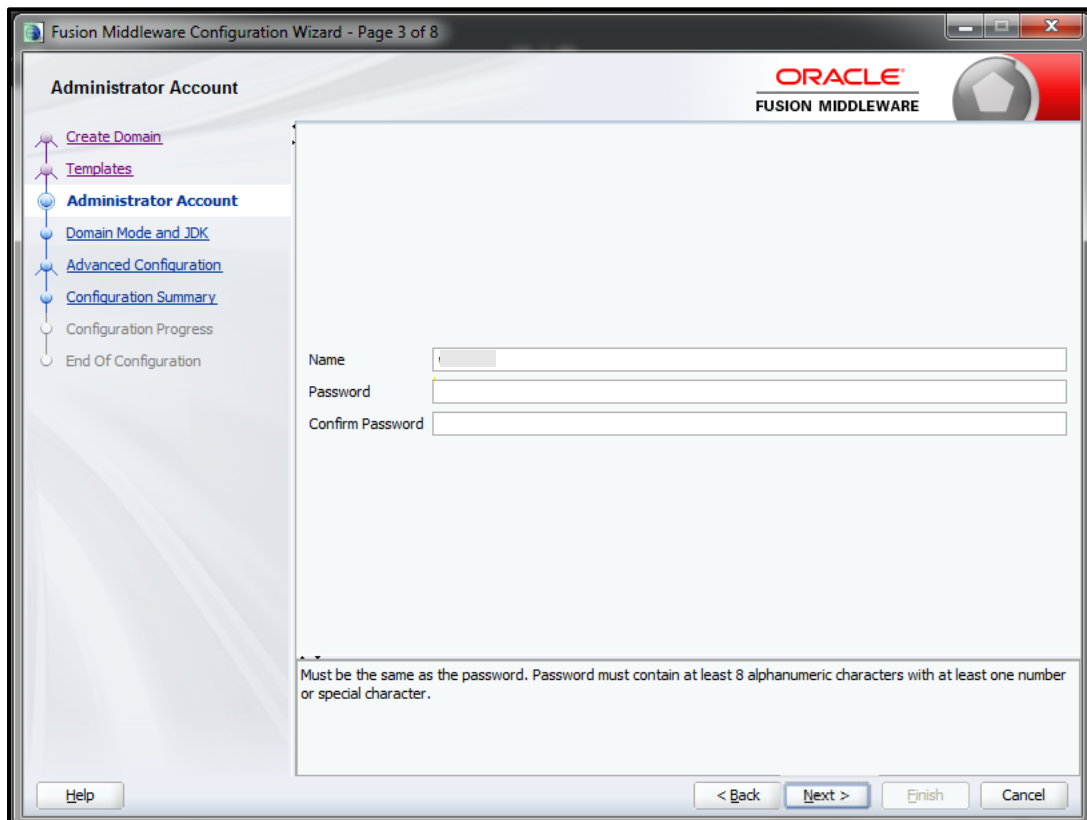
1. Open `/oracle_common/common/bin` and run `config.cmd` (or `.sh` if operating system is linux). Create domain with required cluster and server configurations. Refer to the screenshots below.
2. Select **Create a new domain** and provide domain name. For example, `platoinfra_domain`.



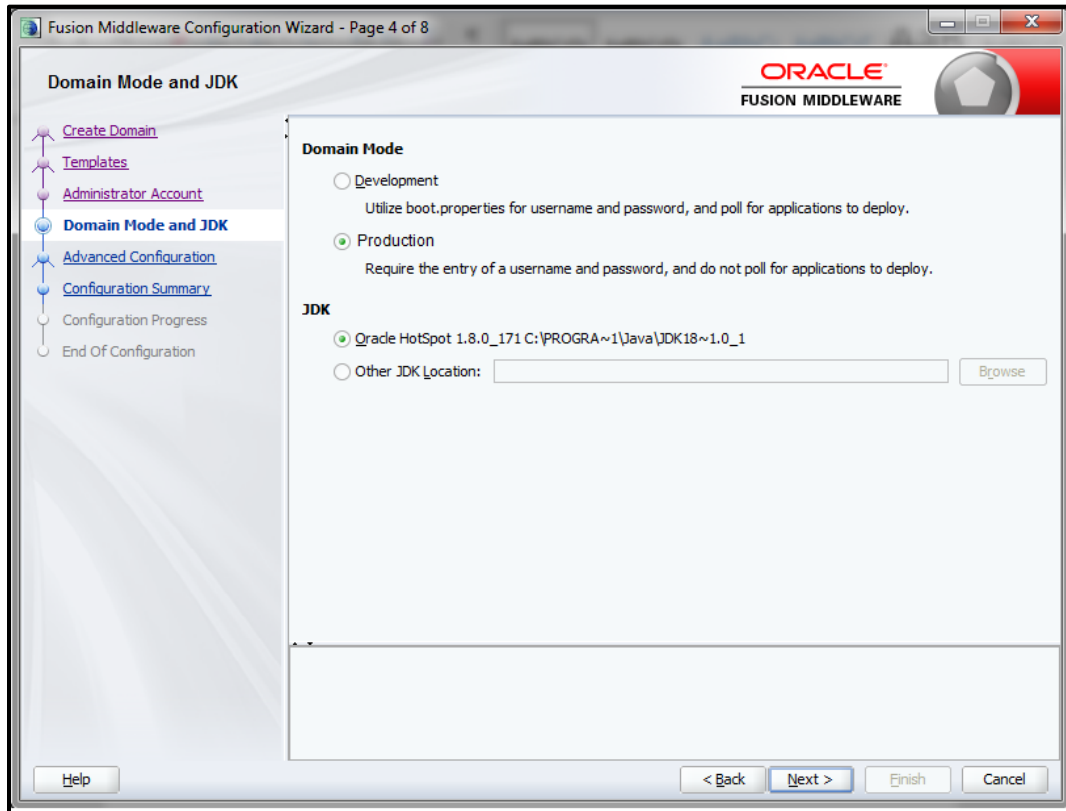
3. Click **Next** to create simple domain with default templates.



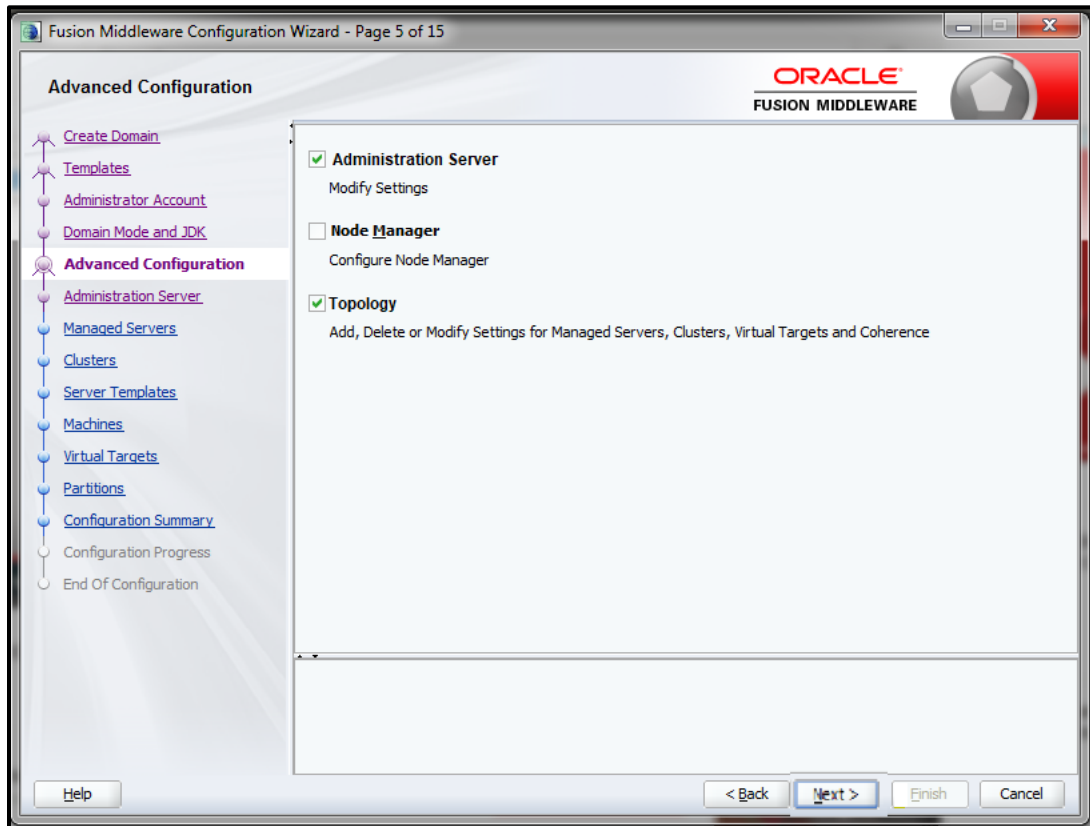
4. Set password and confirm, click **Next** to proceed.



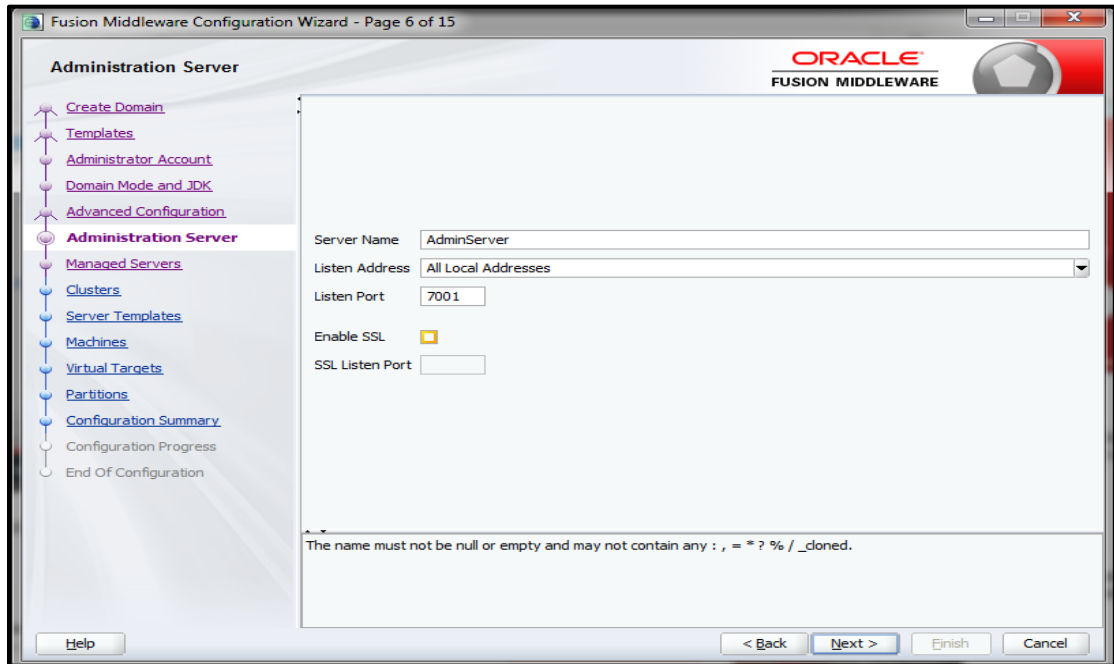
5. Select **Domain Mode** as **Production** and select **JDK**.



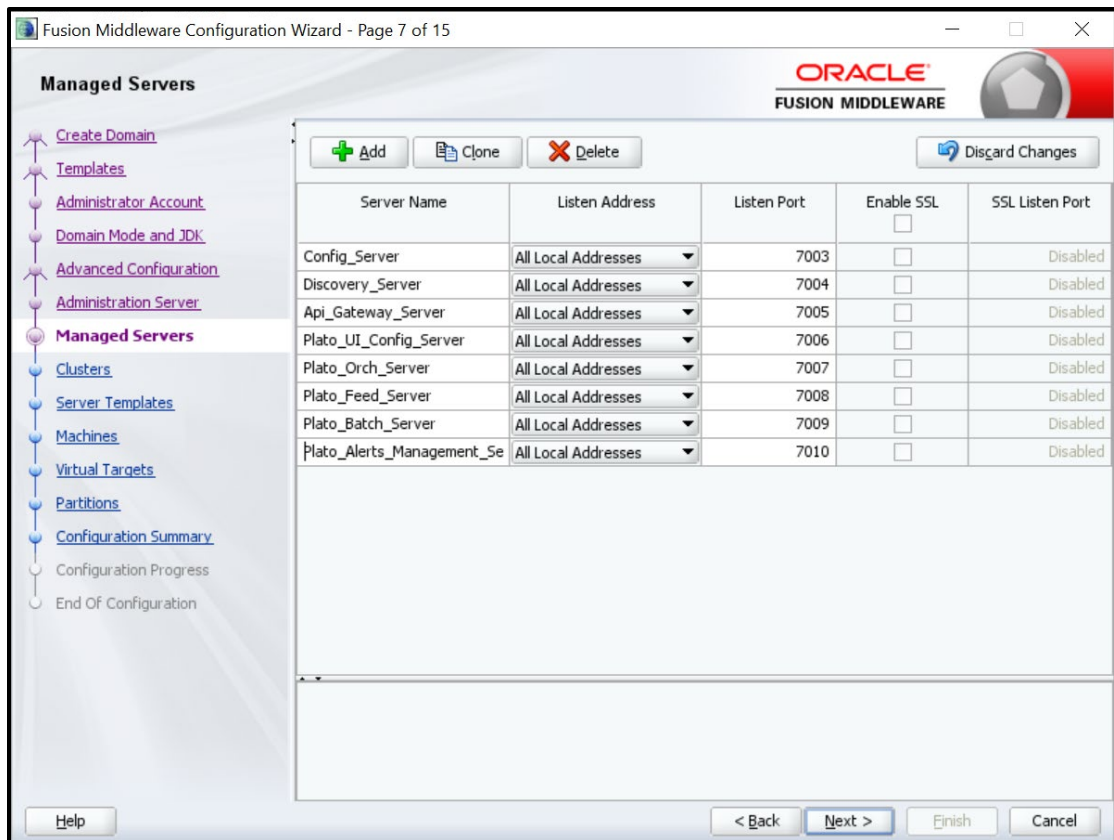
6. Select **Administration Server** and **Topology** in advanced configurations.



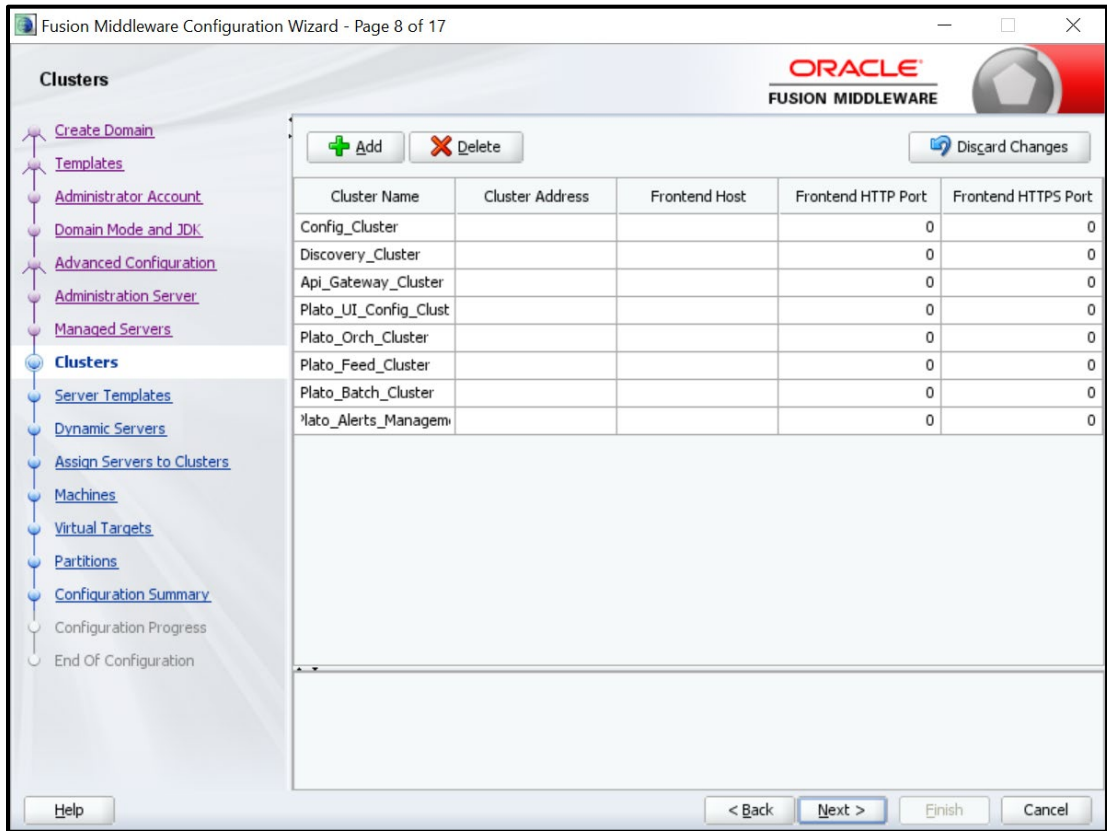
- Edit the port and host configurations as required and click **Next**.



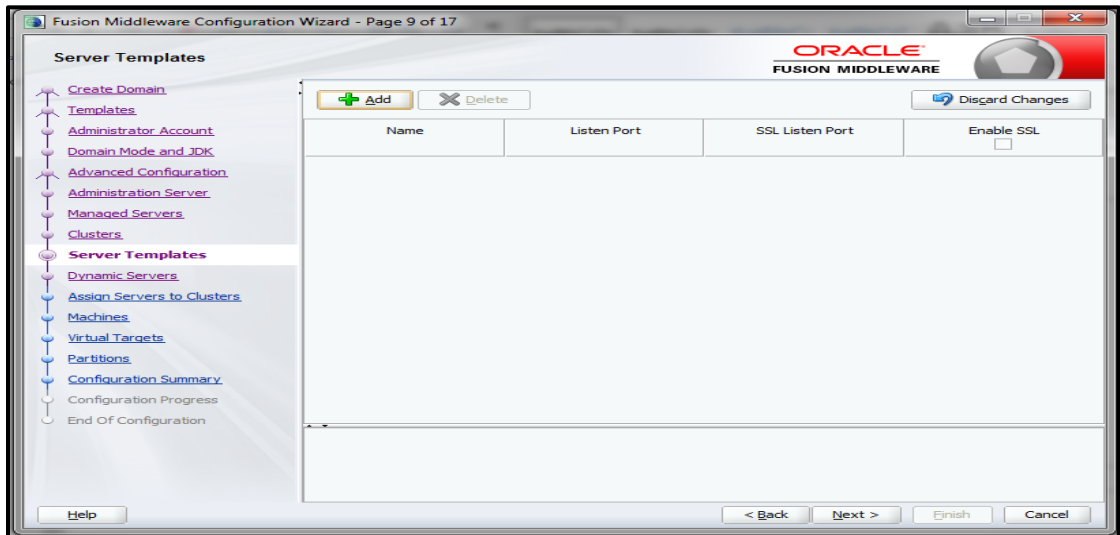
- Add managed servers and provide meaningful **Server Name**, edit listen address and port as required.



9. Add clusters one for each managed servers.

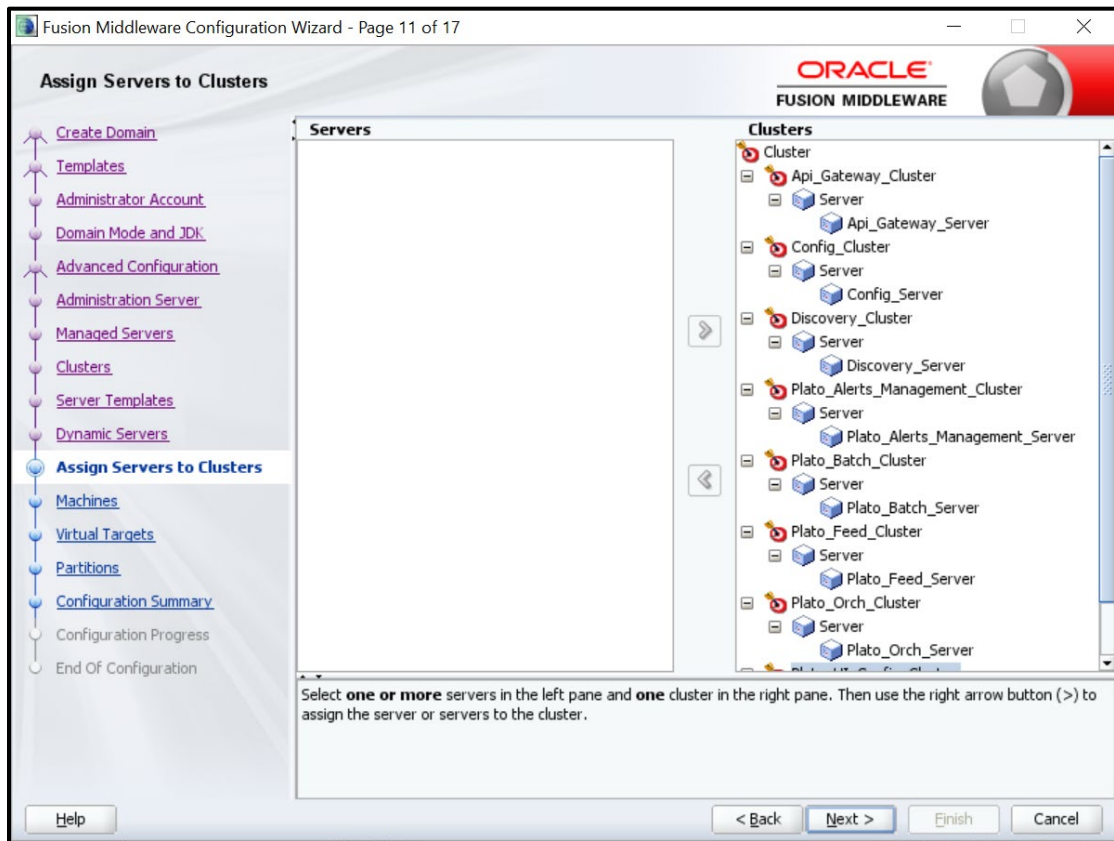


10. Skip Server Templates and Dynamic Servers.

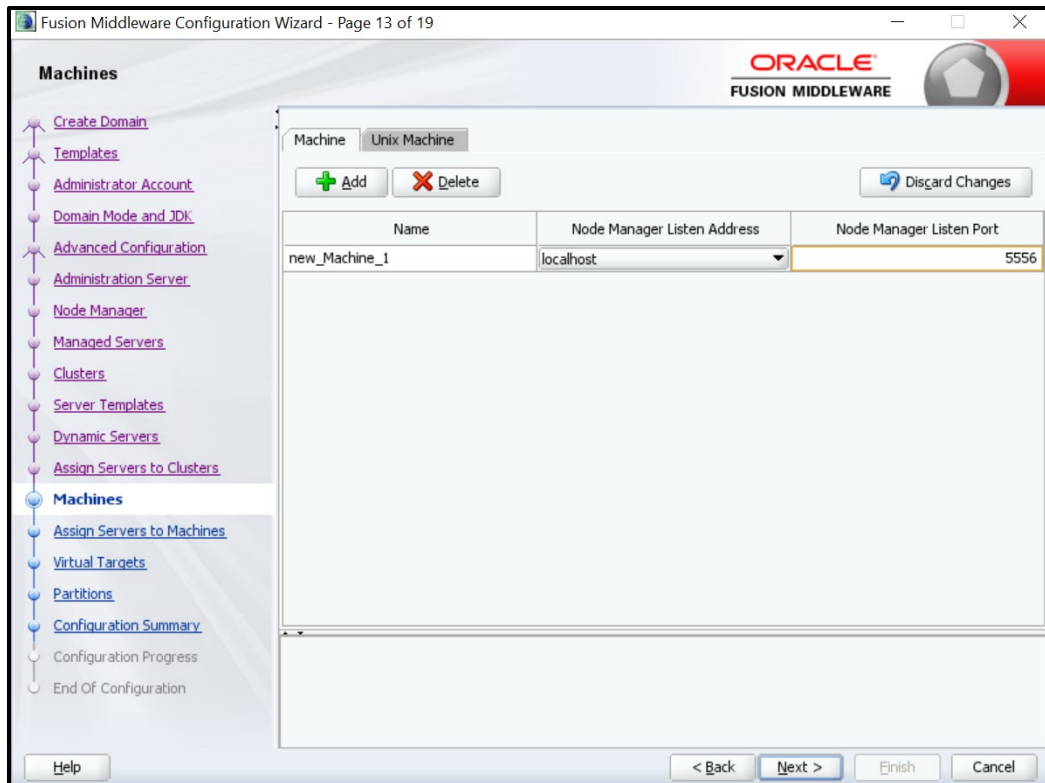




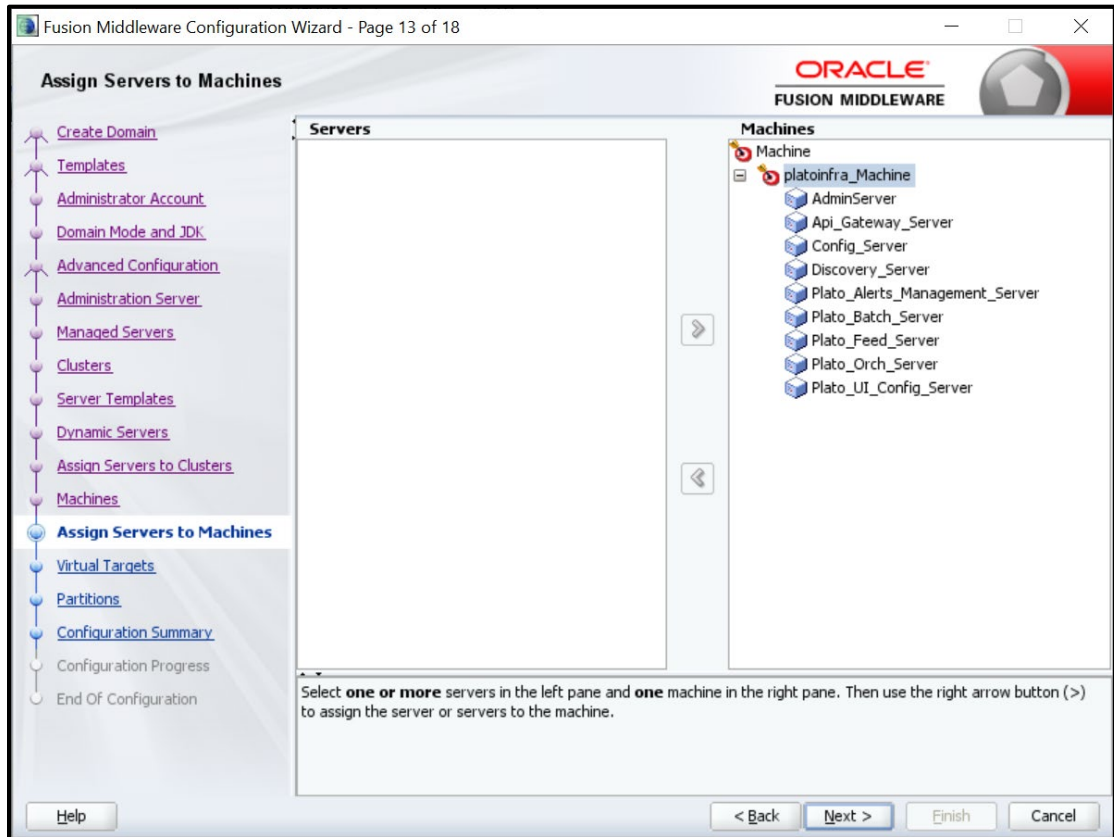
11. Assign clusters with servers.



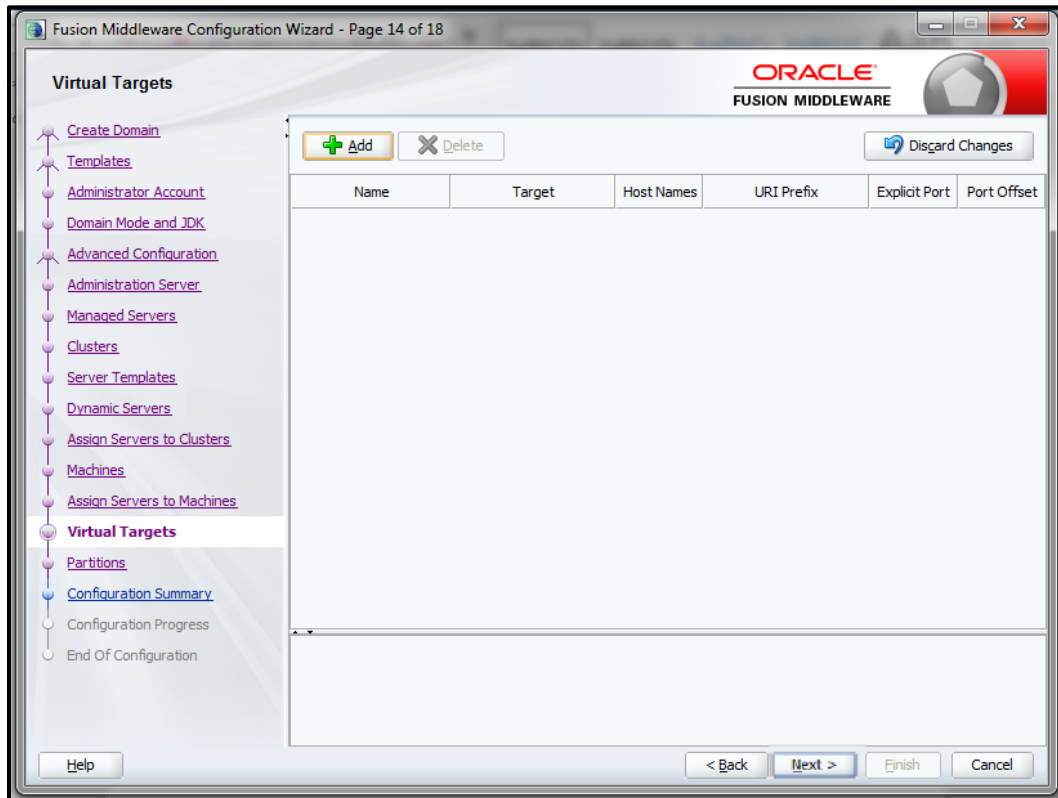
12. Add **Machine/Unix Machine** based on operating system and configure **Name**, **Node Manager Listen Address** and **Node Manager Listen Port** as required.

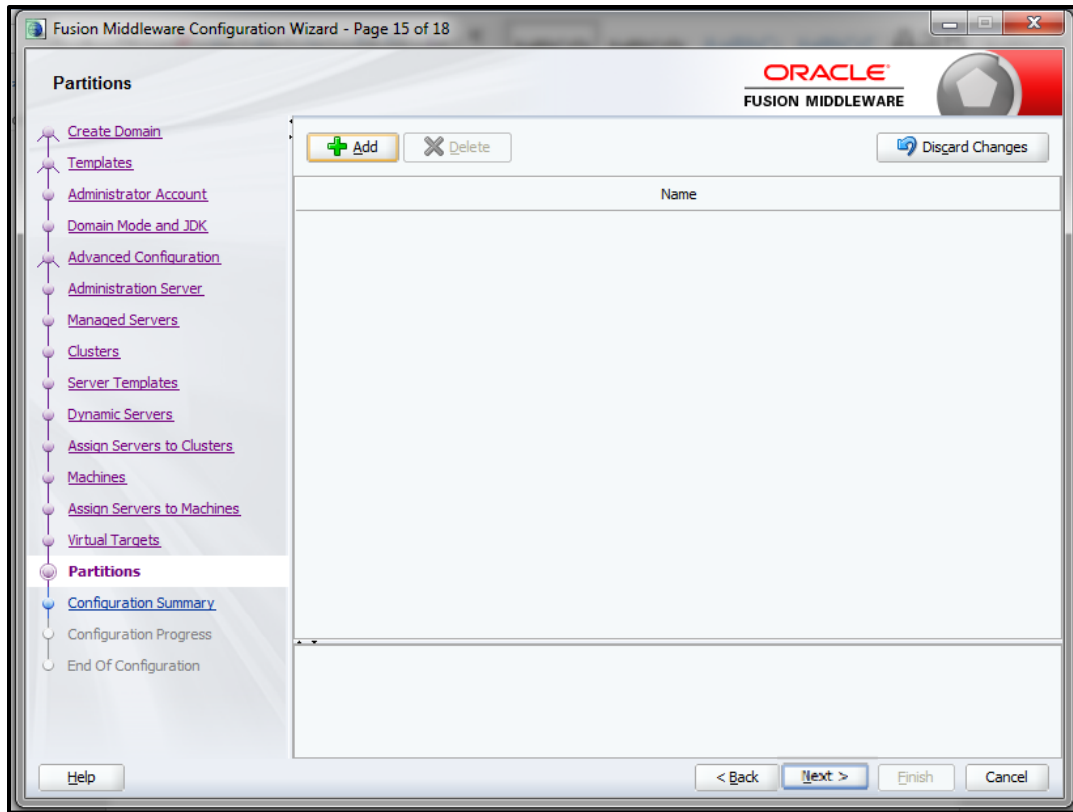


13. Map all managed servers under the machine created.

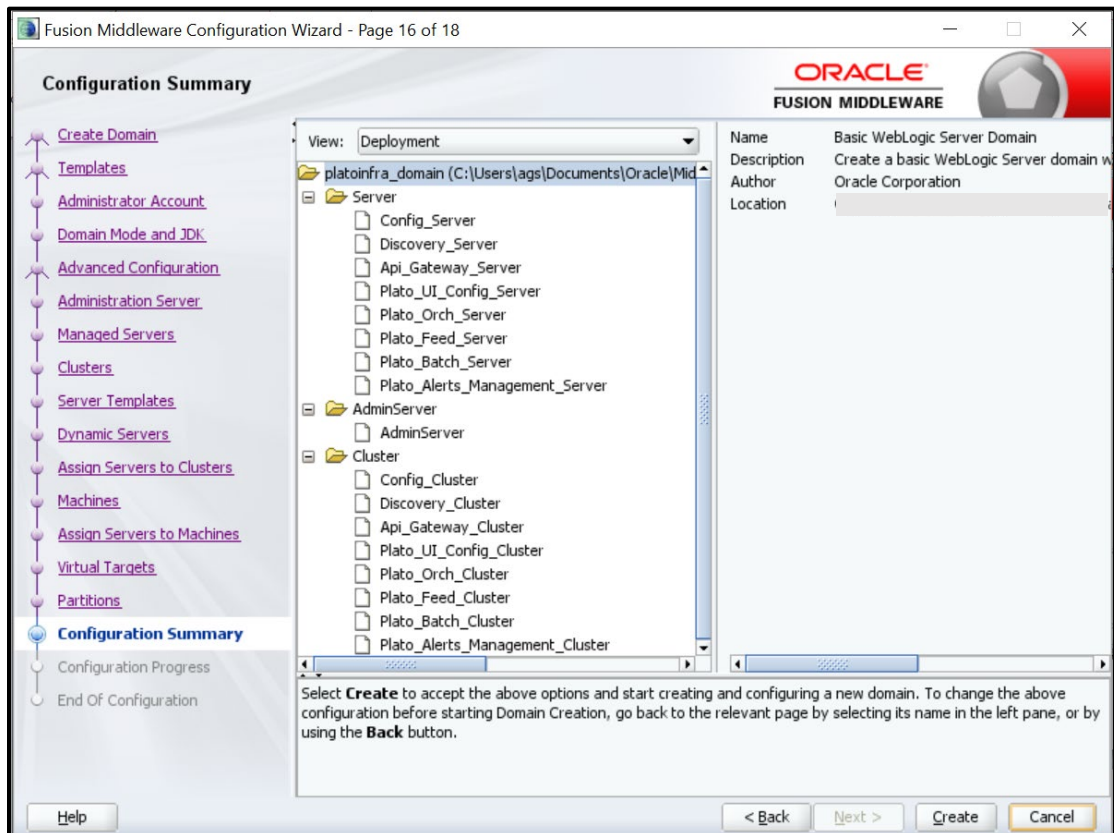


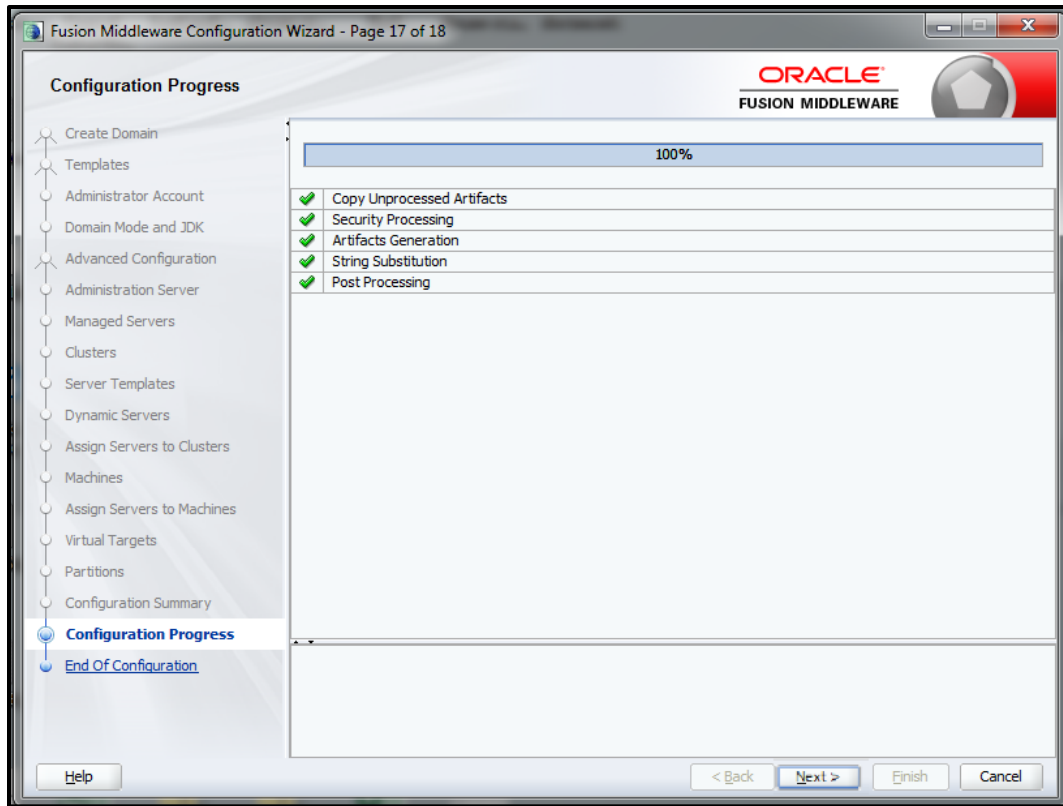
14. Skip or configure **Virtual Targets** and **Partitions** as required.



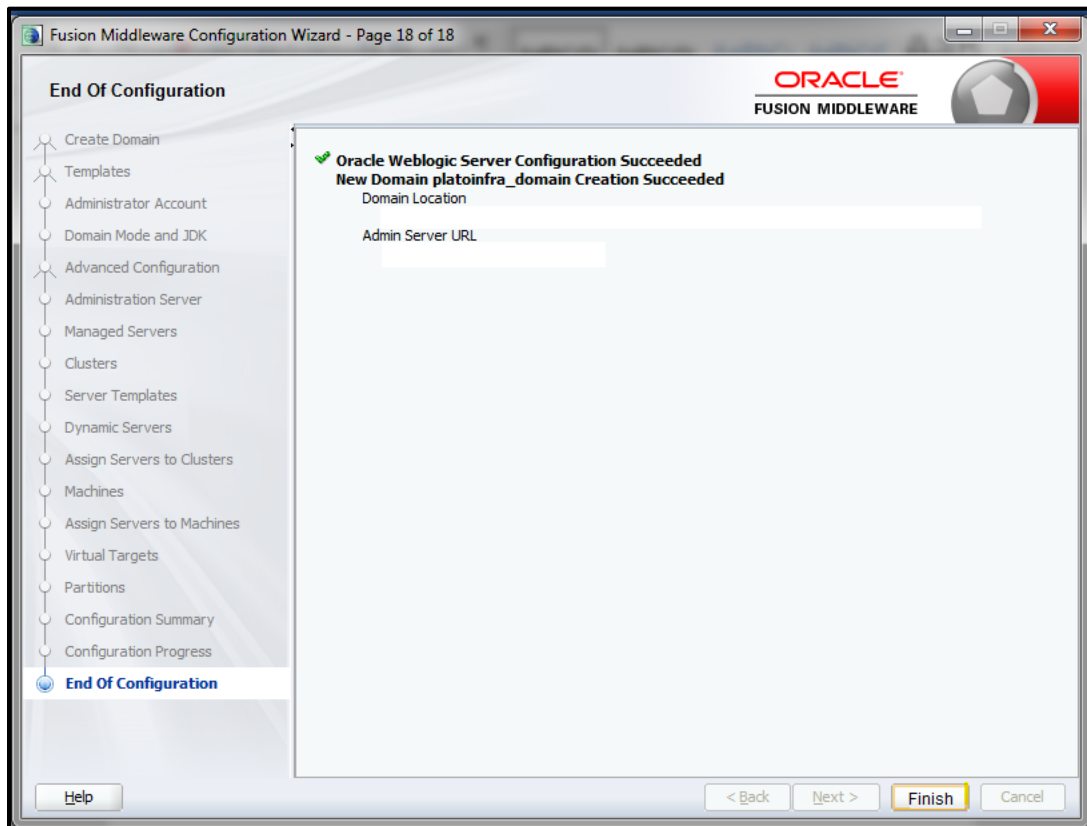


15. Check the **Configuration Summary** and confirm creating domain.





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



### 1.3.2 Post Domain Creation Configurations

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

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

The screenshot shows the Oracle WebLogic Administration Console interface. On the left, there is a navigation pane with a tree view showing the domain structure: platoinfra\_domain > Domain Partitions > Environment > Servers > Clusters. Below this is a 'How do I...' section with links like 'Create Managed Servers', 'Clone servers', etc. The main content area is titled 'Configuration Control' and contains a table of servers. The table has the following data:

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

**Change Center** Home Log Out Preferences [Add](#) [Record](#) [Help](#)  Welcome, Connected to: platoinfra\_domain

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

**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

**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](#)

<input type="checkbox"/>	Name	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	S
<input type="checkbox"/>	Apl_Gateway_Cluster		Unicast	Database	Round Robin	(None)		A
<input type="checkbox"/>	Config_Cluster		Unicast	Database	Round Robin	(None)		C
<input type="checkbox"/>	Discovery_Cluster		Unicast	Database	Round Robin	(None)		D
<input type="checkbox"/>	Plato_Alerts_Management_Cluster		Unicast	Database	Round Robin	(None)		P
<input type="checkbox"/>	Plato_Batch_Cluster		Unicast	Database	Round Robin	(None)		P
<input type="checkbox"/>	Plato_Feed_Cluster		Unicast	Database	Round Robin	(None)		P
<input type="checkbox"/>	Plato_Orch_Cluster		Unicast	Database	Round Robin	(None)		P
<input type="checkbox"/>	Plato_UI_Config_Cluster		Unicast	Database	Round Robin	(None)		P

[New](#) [Clone](#) [Delete](#) Showing 1 to 8 of 8 [Previous](#) | [Next](#)

**Change Center** 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

**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...**

**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](#)

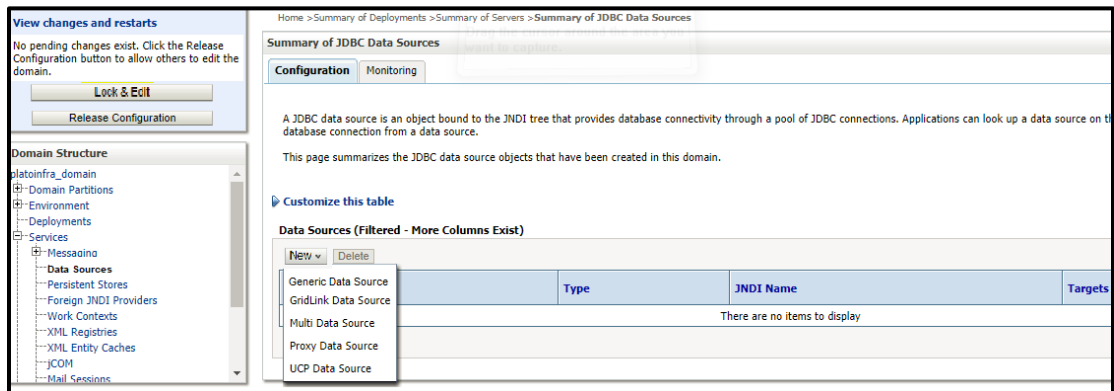
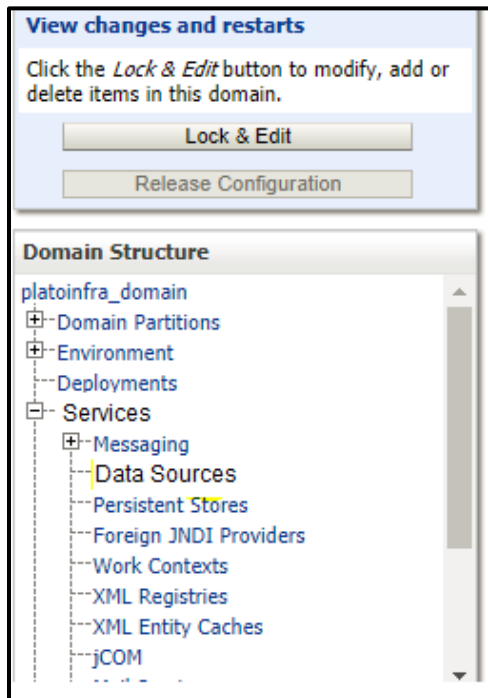
<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	platoinfra_Machine	Machine

[New](#) [Clone](#) [Delete](#) Showing 1 to 1 of 1 [Previous](#) | [Next](#)

## 1.4 How to Create Datasource

Perform the following steps to create data source:

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



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.

The screenshot shows the Oracle WebLogic console interface. On the left is a navigation tree with 'PlatoIntra\_domain' selected. The main area is divided into 'Servers' and 'Clusters' sections. Under 'Clusters', several clusters are listed, each with a checked box and radio button options. The 'Part of the cluster' option is selected for all clusters, and specific servers are checked for deployment:

- Api\_Gateway\_Cluster:** Part of the cluster (selected), Api\_Gateway\_Server (checked)
- Config\_Cluster:** Part of the cluster (selected), Config\_Server (checked)
- Discovery\_Cluster:** Part of the cluster (selected), Discovery\_Server (checked)
- Plato\_Alerts\_Management\_Cluster:** Part of the cluster (selected), Plato\_Alerts\_Management\_Server (checked)
- Plato\_Batch\_Cluster:** Part of the cluster (selected), Plato\_Batch\_Server (checked)
- Plato\_Feed\_Cluster:** Part of the cluster (selected), Plato\_Feed\_Server (checked)

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.

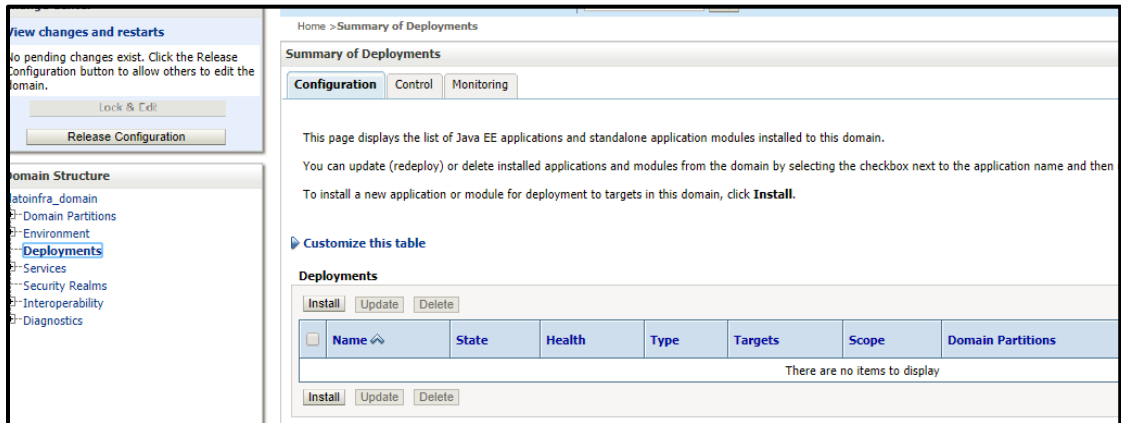
Name	Type	JNDI Name	Targets
PLATO	Generic	jdbc/PLATO	Api_Gateway_Server, Config_Server, Discovery_Server, Plato_Alerts_Management_Server, Plato_Batch_Server, Plato_Feed_Server, ...

## 1.5 How to Deploy Application

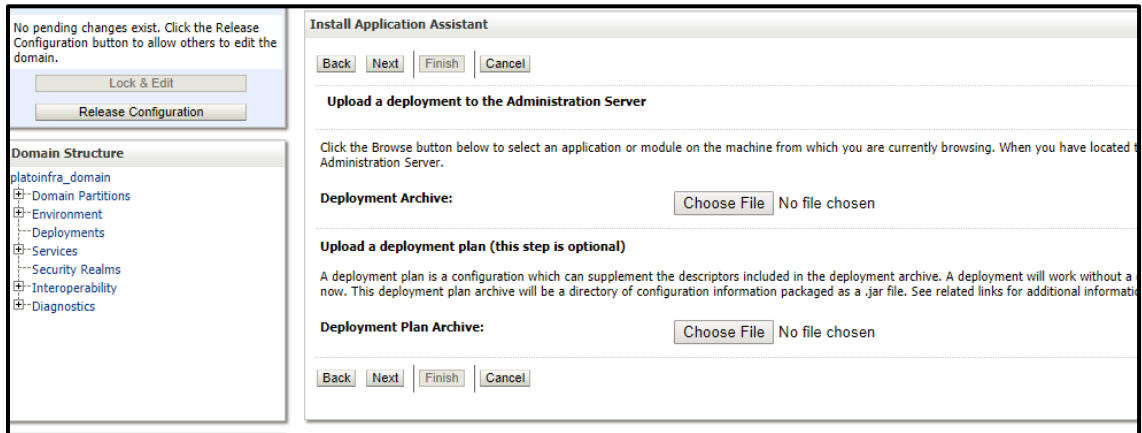
Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain, where we deploy will differ. Perform the following steps to see how deployment of archive as application is done on weblogic:

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

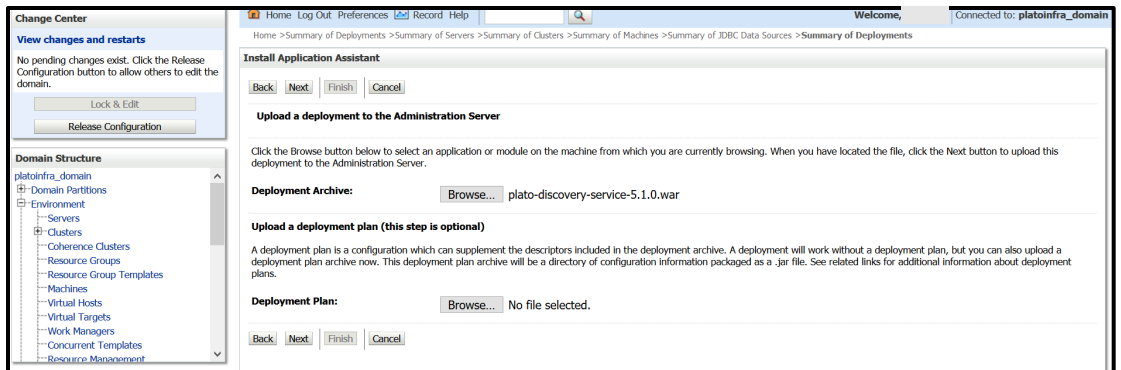
2. Click on **Lock and Edit** and then click **Install**.

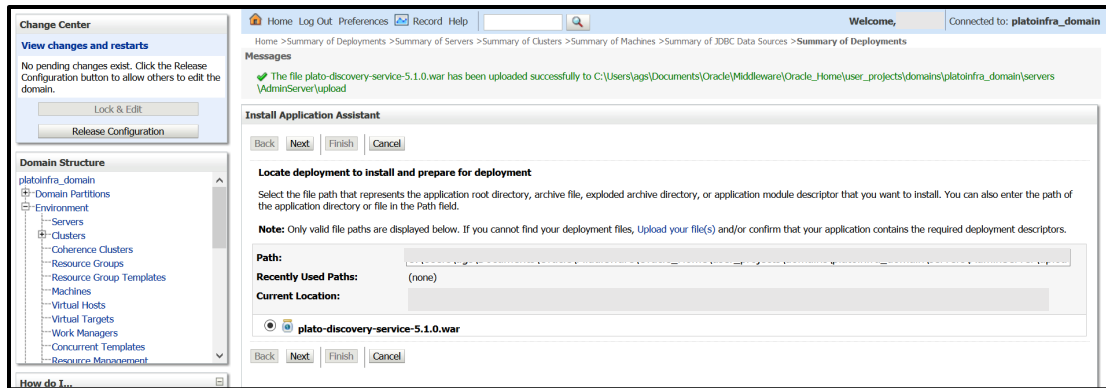


3. Click **Upload your file(s)** to select archive, **Choose File** and click **Next**.

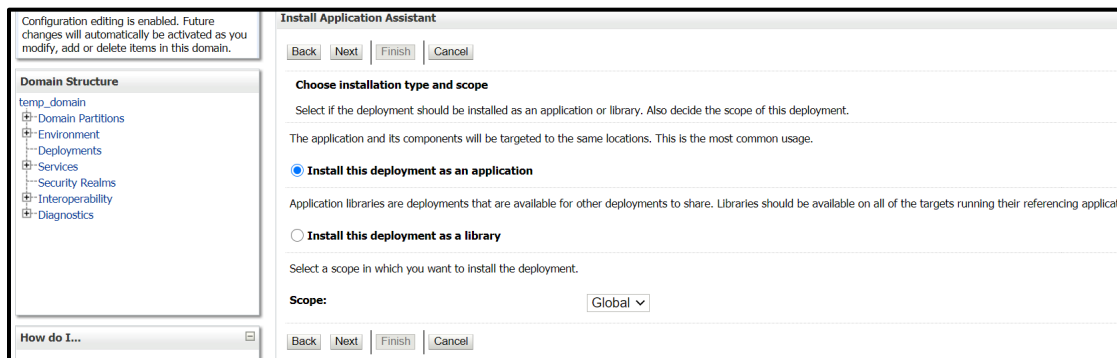


4. After archive is uploaded, click **Next**.

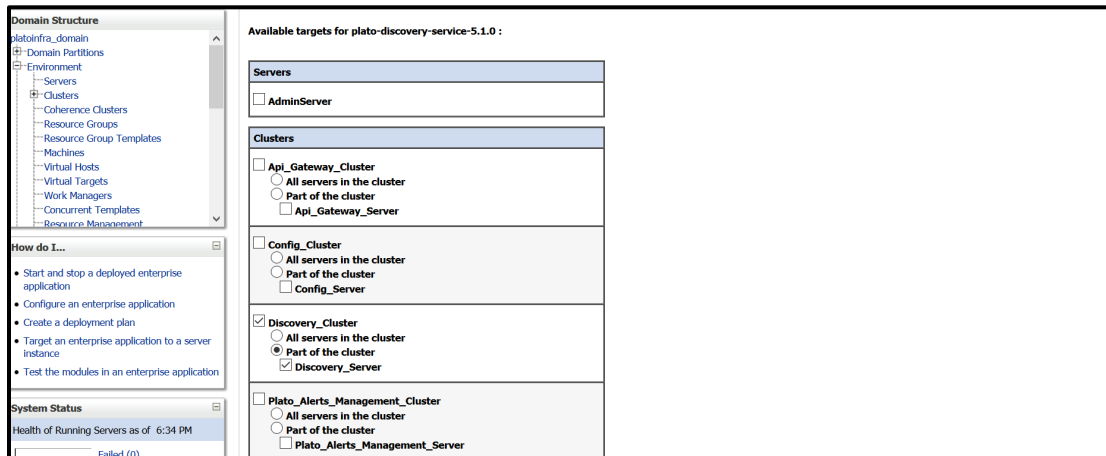




5. Select option **Install this deployment as an application** and click **Next**.



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

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

Welcome, Connected to: platoinfra\_domain

Install Application Assistant

Back Next Finish Cancel

Optional Settings

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

General

What do you want to name this deployment?

\* Name: plato-discovery-service-5.1.0

Security

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

DD Only: Use only roles and policies that are defined in the deployment descriptors.

Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

Advanced: Use a custom model that you have configured on the realm's configuration page.

Source Accessibility

How should the source files be made accessible?

Use the defaults defined by the deployment's targets

Desktop 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

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

Welcome, Connected to: platoinfra\_domain

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 Initializing		Web Application	Discovery_Server	Global		100

Install Update Delete Showing 1 to 1 of 1 Previous Next

Change Center

View changes and restarts

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

Lock & Edit  
Release Configuration

Domain Structure

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

How do I...
 

- Install an enterprise application
- Configure an enterprise application

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

Welcome, Connected to: platoinfra\_domain

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 Application	Discovery_Server	Global		100

Install Update Delete Showing 1 to 1 of 1 Previous Next

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

The screenshot shows the Oracle Change Center interface. On the left is the 'Domain Structure' tree. The main content area is titled 'Summary of Deployments' and has tabs for 'Configuration', 'Control', and 'Monitoring'. The 'Control' tab is active. Below the tabs, there is a table of deployments. The table has columns: Name, State, Health, Type, Targets, Scope, and Domain Partitions. One deployment is listed: 'plato-discovery-service-5.1.0' with State 'Prepared' and Health 'OK'. There are 'Start' and 'Stop' buttons above and below the table.

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

This screenshot is similar to the previous one, but the 'Start' dropdown menu is open, showing options like 'Servicing all requests' and 'Servicing only administration requests'. The 'plato-discovery-service-5.1.0' deployment is still visible in the table below.

- Click **Yes**.

The screenshot shows a dialog box titled 'Start Application Assistant'. It has 'Yes' and 'No' buttons. Below the buttons, it says 'Start Deployments' and 'You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.' A list shows 'plato-discovery-service-5.1.0'. The 'Yes' button is highlighted.

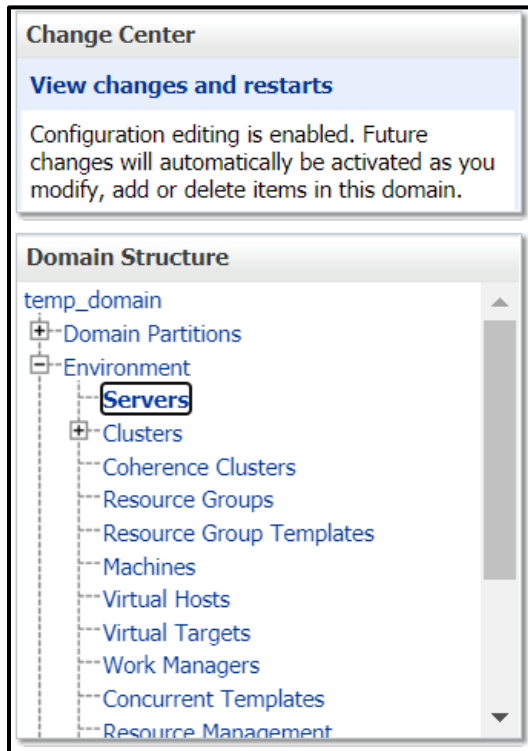
- The status is displayed as **Active** in the state column.

The screenshot shows the 'Summary of Deployments' page again. The 'plato-discovery-service-5.1.0' deployment is now in the 'Active' state. The table has an additional column 'Deployment Order' with the value '100'. There are 'Install', 'Update', and 'Delete' buttons above and below the table.

## 1.6 How to Restart Servers

Perform the following steps to restart servers:

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



2. Click **Control** tab.

The screenshot shows the 'Summary of Servers' page in the Change Center. The 'Control' tab is selected. The page contains a table of servers with columns for 'Server', 'Machine', 'State', and 'Status of Last Action'. The table is filtered to show 9 servers. The 'Control' tab is selected, and the page contains a table of servers with columns for 'Server', 'Machine', 'State', and 'Status of Last Action'. The table is filtered to show 9 servers.

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**

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.

Server Life Cycle Assistant

Yes No

**Forcibly Shutdown Servers**

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

- Discovery\_Server

Yes No

5. The status displayed as shown below:

Summary of Servers

Configuration Control

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"/> Api_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)

Server	Machine	State	Status of Last Action
AdminServer(admin)	platoinfra_Machine	RUNNING	None
Api_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
Config_Server	platoinfra_Machine	SHUTDOWN	None
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)

Server	Machine	State	Status of Last Action
AdminServer(admin)	platoinfra_Machine	RUNNING	None
Api_Gateway_Server	platoinfra_Machine	SHUTDOWN	None
Config_Server	platoinfra_Machine	SHUTDOWN	None
Discovery_Server	platoinfra_Machine	RUNNING	TASK COMPLETED

**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

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
plato-discovery-service-5.1.0	Active	OK	Web Application	Discovery_Server	Global		100

## 1.7 How to Check Port Number

Perform the following steps to check port numbers:

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



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

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

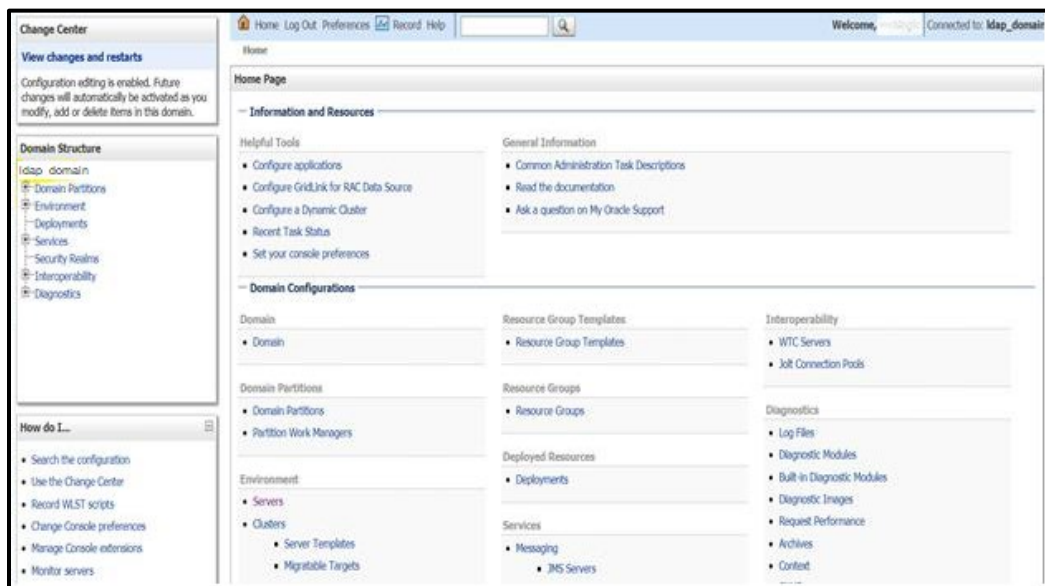
## 1.8 Weblogic Embedded LDAP Setup

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

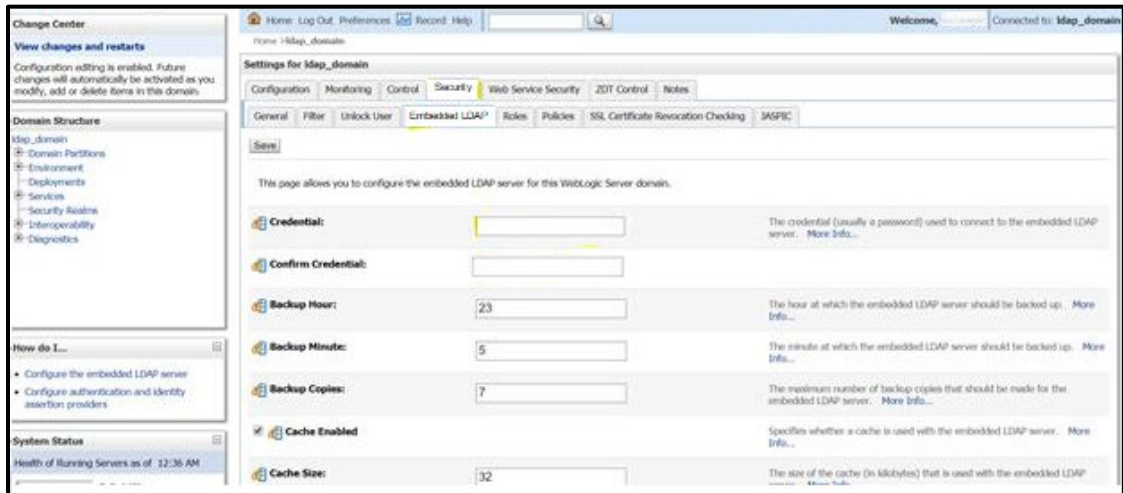
- Configuration of Weblogic LDAP
- Creation of Users
- Plato Security Config Table Entries

### 1.8.1 Configuration of Weblogic LDAP

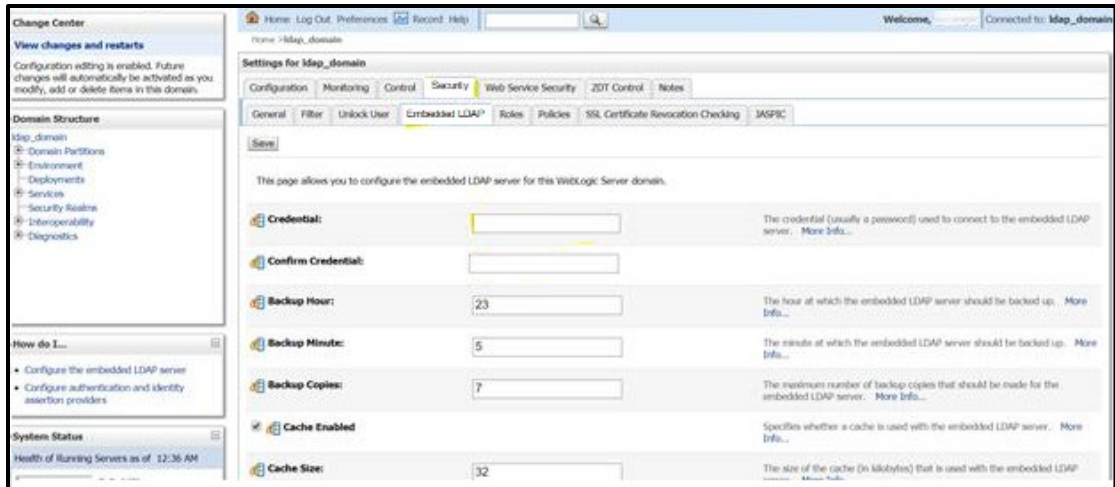
1. Open the **Administration Console** for the **Weblogic** and click domain name in left panel.



- Under Settings for ldap\_domain, click **Security** tab, and then click **Embedded LDAP** tab.

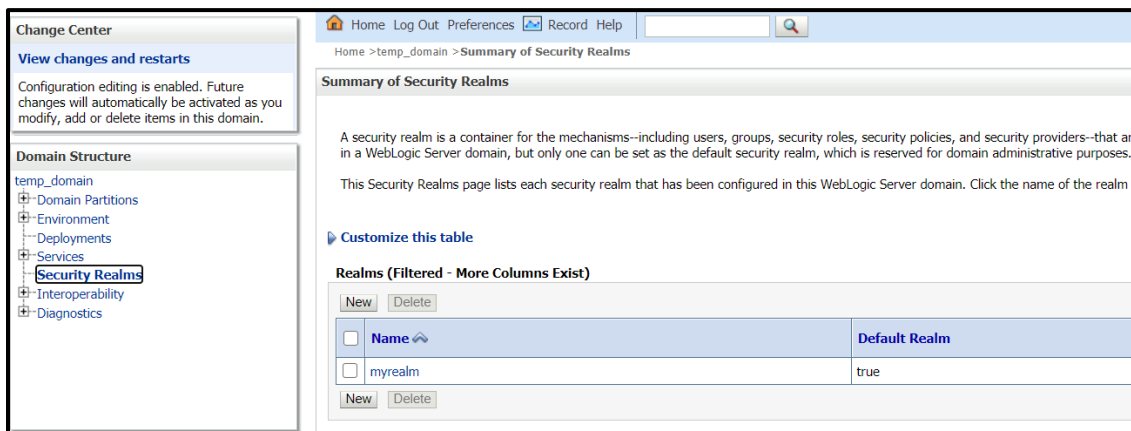


- Set the **Credential** for Weblogic Embedded LDAP store. This is needed in the **Security Config** table.



## 1.8.2 Creation of Users

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



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

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 group that has been configured in this security realm.

Customize this table

Groups

New Delete

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

New Delete

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

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:

How would you like to describe the new Group?

Description:

Please choose a provider for the group.

Provider:

OK Cancel

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

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

- 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.

**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

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

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...

- Manage users and groups
- Create users
- Modify users
- Delete users

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

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

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

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:

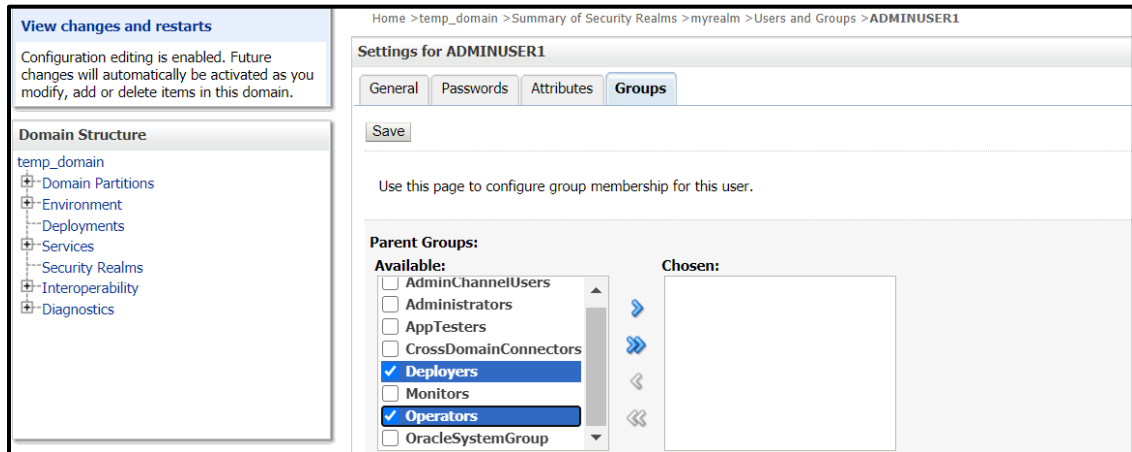
Available:

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

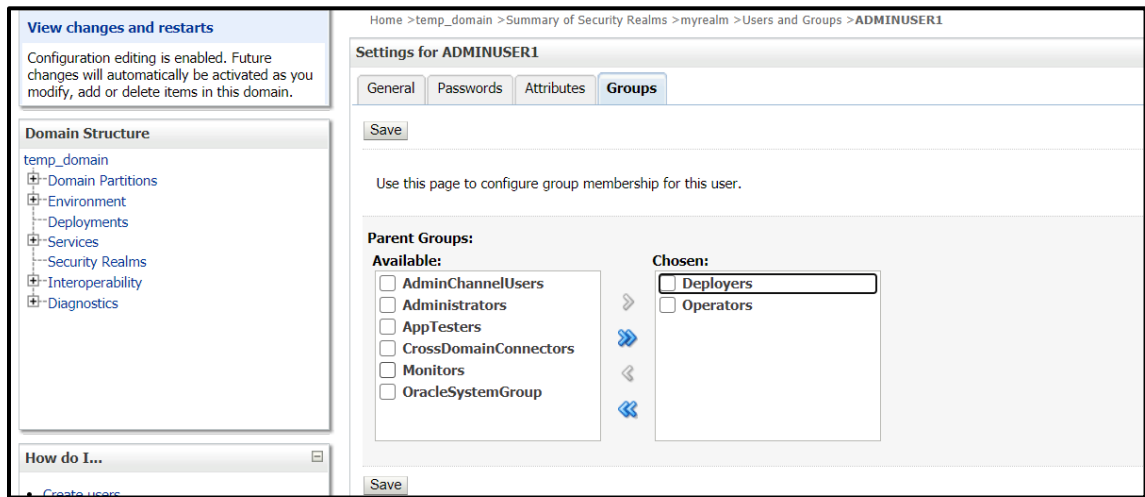
Chosen:

Save

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



11. Click **Save**.



### 1.8.3 Plato Security Config Table Entries

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

**Connection Details:**

**URL:** 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

ID	VALUE	Description
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.

## 1.9 **Oracle Analytic Server Setup**

This section contains the following sub-sections:

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

### 1.9.1 **Prerequisite**

Perform the following steps:

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

### 1.9.2 **Start BI Server**

Perform the following steps to start BI server:

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



### 1.9.3 Upload BI Reports

Perform the following steps to upload BI reports:

1. Login to the Analytics server console.
2. Open the OSDC and check for the report Catalog object **{unzip folder}\REP\{reportfilename}.xdrz** or any other Catalog objects listed below:

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

3. Upload the catalog object to Analytics Server.

### 1.9.4 Test BI Reports

Perform the following steps to generate BI reports:

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

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



## ANNEXURE - 1

May 2021

Version 14.5.0.0.0

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