

Oracle Banking Liquidity Management

Annexure

Release 14.3.0.0.0

[May] [2019]



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1. Annexure

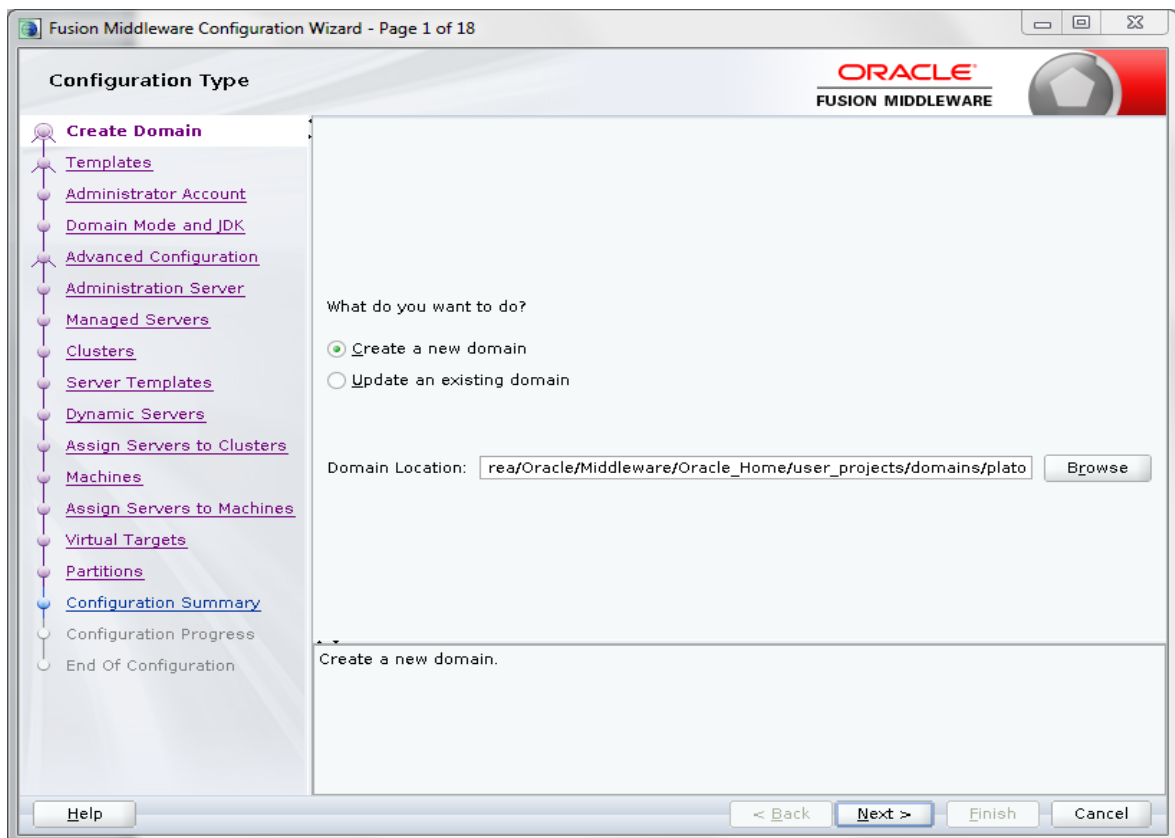
1.1 Introduction

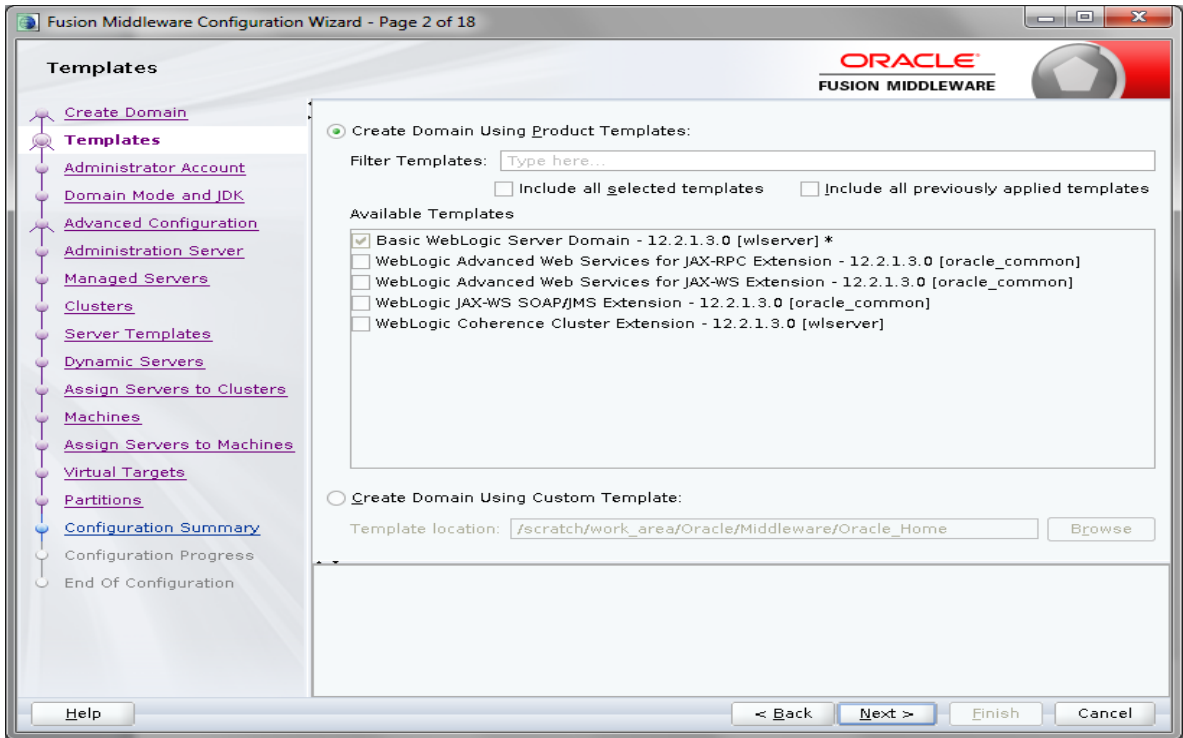
This document is a supporting document, while installing OBLM application.

1.2 How to create Domain and Cluster Configuration

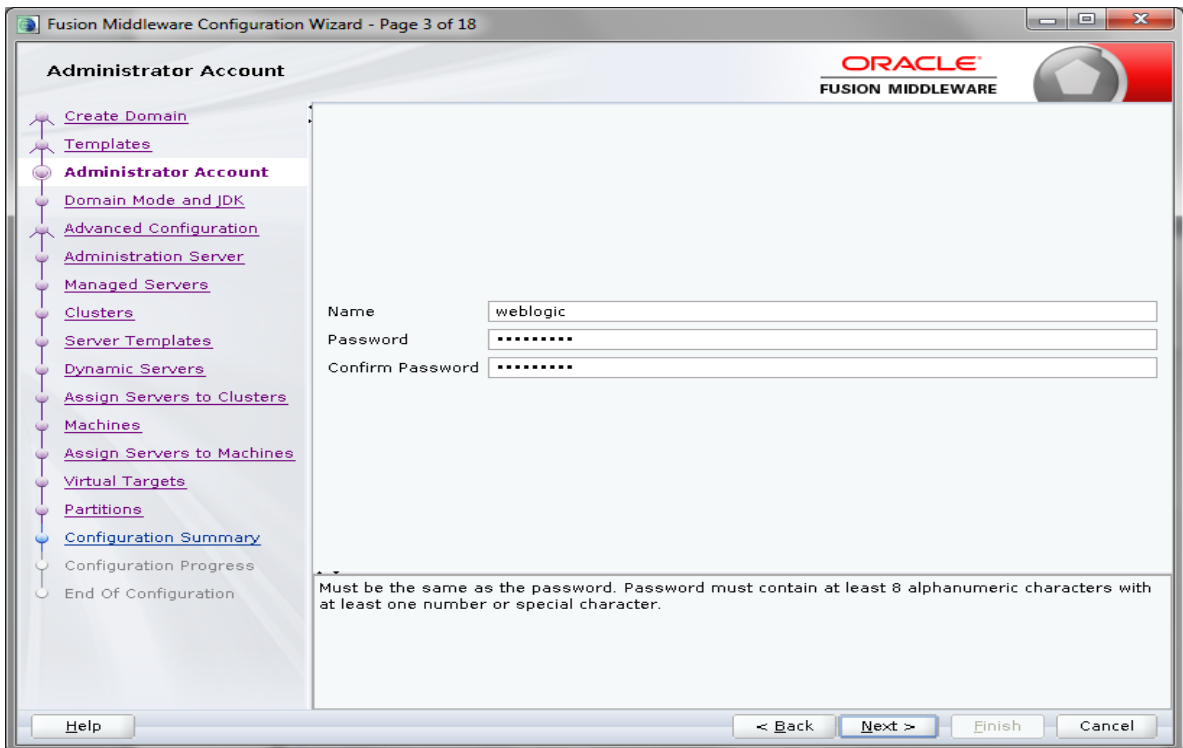
[Note: The name need not to be same as provided in the screenshots.]

1. Go to `/oracle_common/common/bin` and run `config.cmd` (or `.sh` if operating system is linux) and below the below screen shots to create domain with required cluster and server configurations.
2. Select **Create a new domain** and **provide domain name**. Example: `platoinfra_domain`.

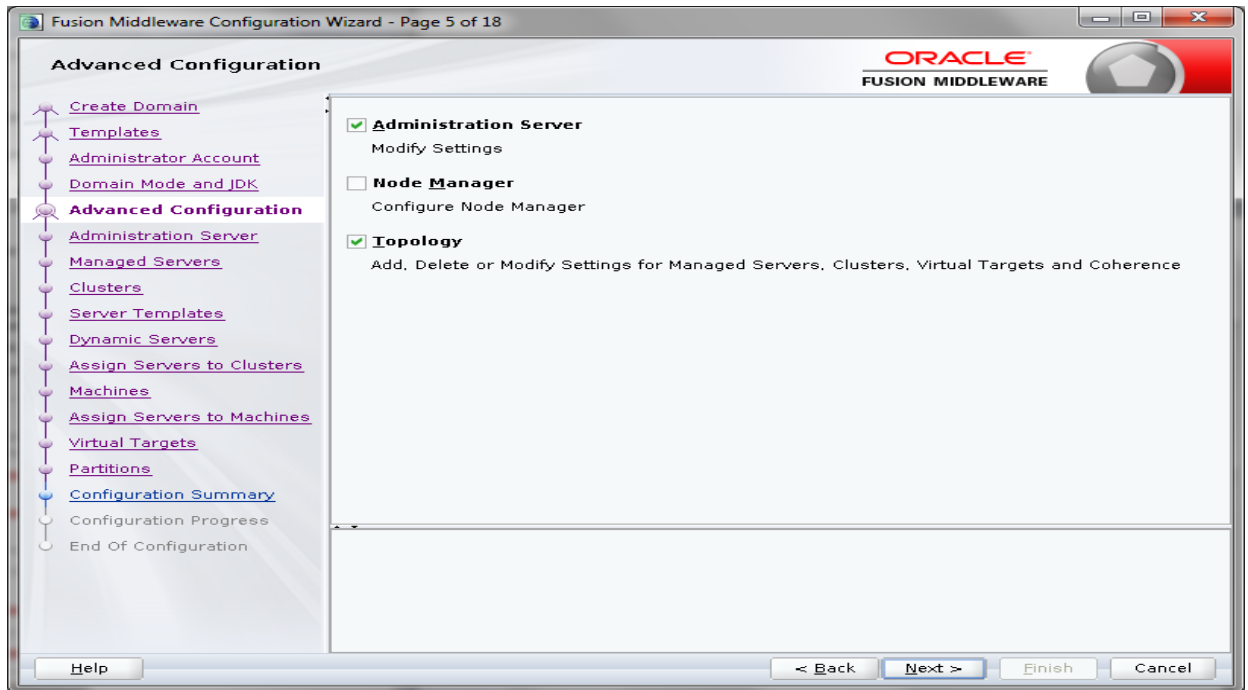
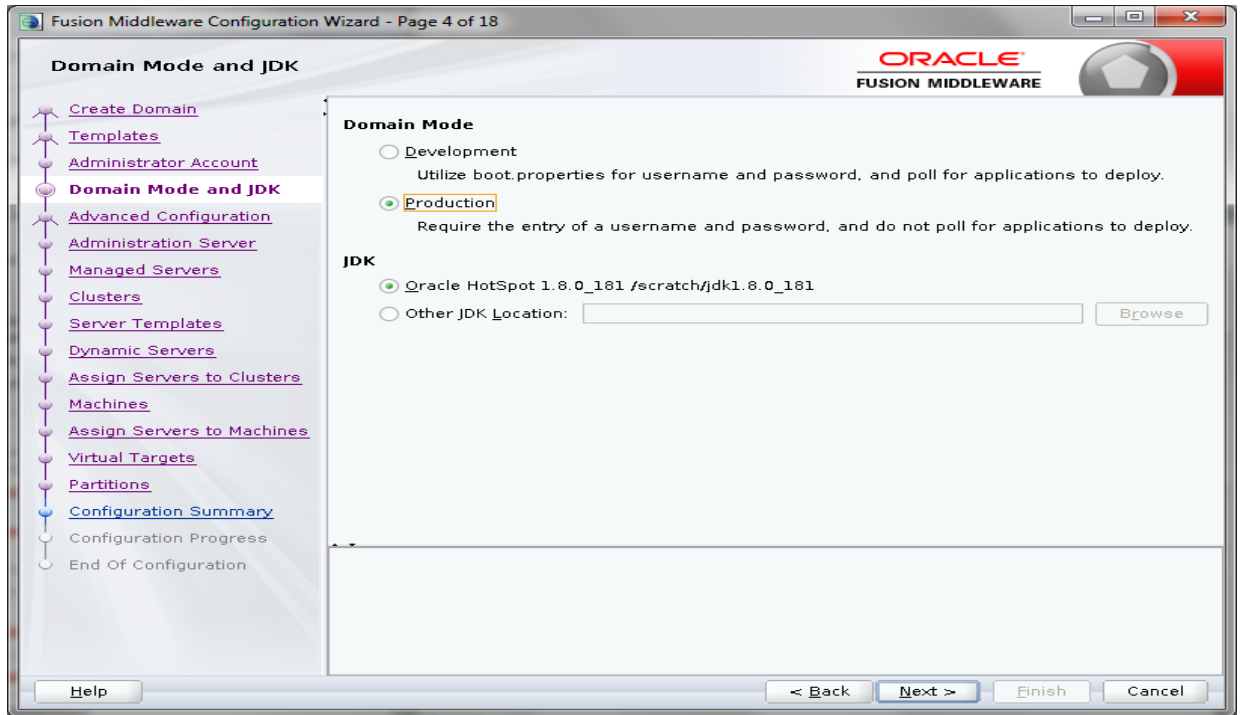




3. Click **next** to create simple domain with default templates.



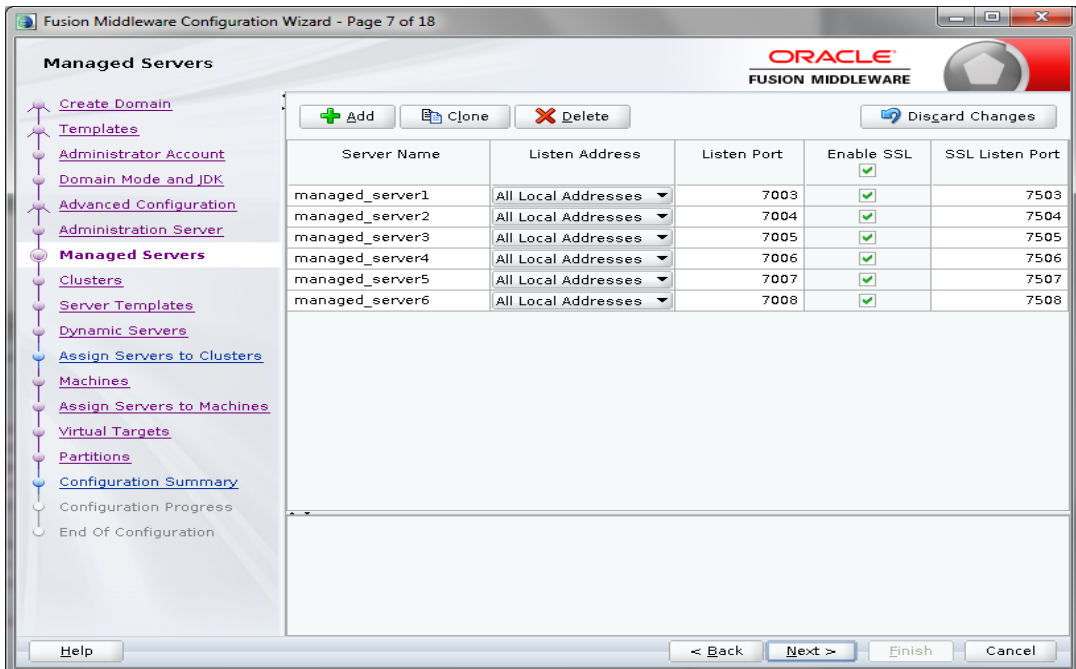
4. Set password and confirm, click **next** to proceed.
5. Select Domain mode as **Production** and select **jdk**.



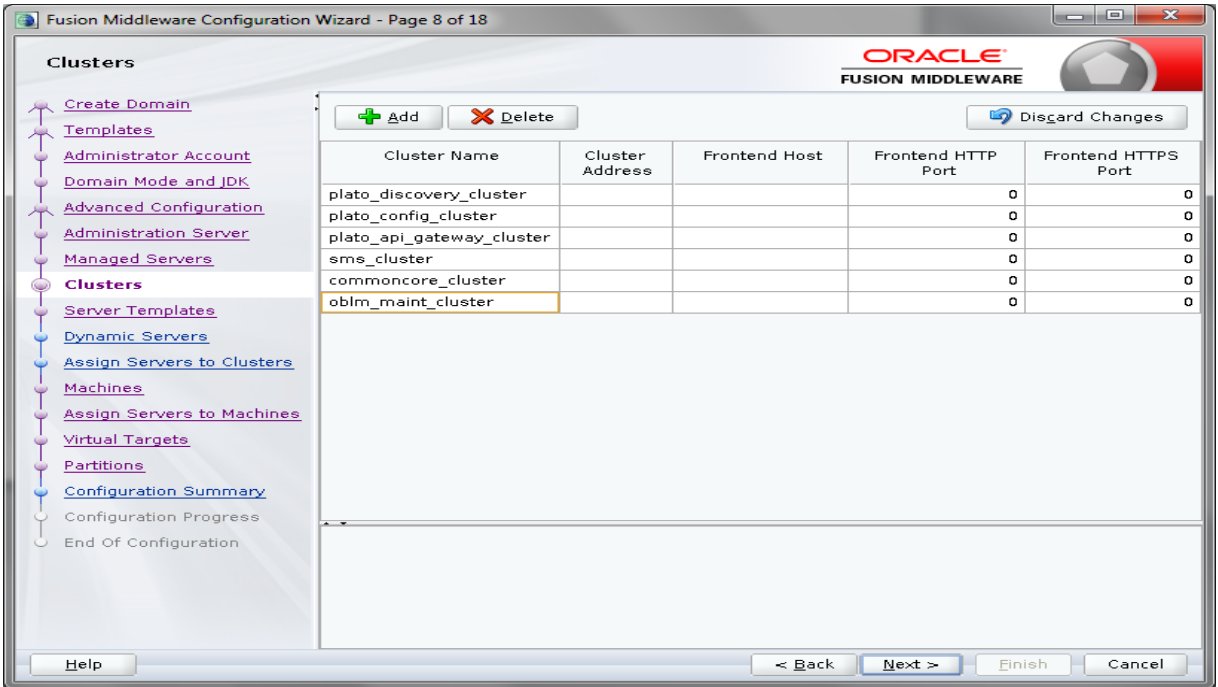
6. Select **Administration Server** and **Topology** in advanced configurations.



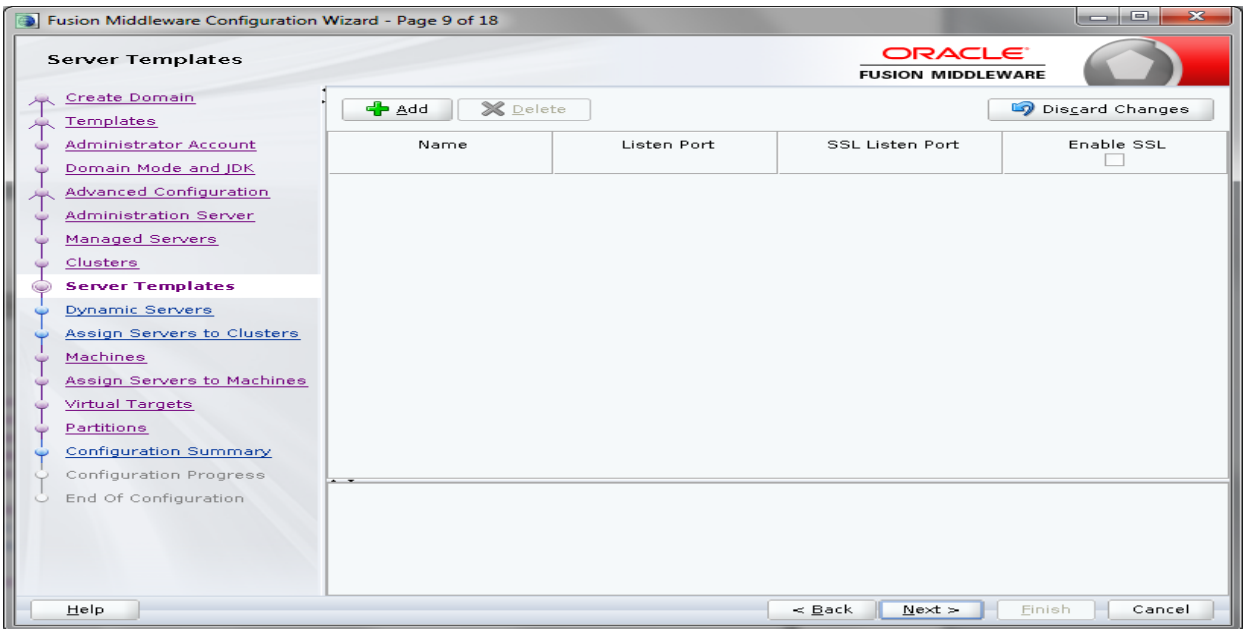
7. Edit the **port** and **host** configurations as required and click **next**. (The server topology given below is an example)



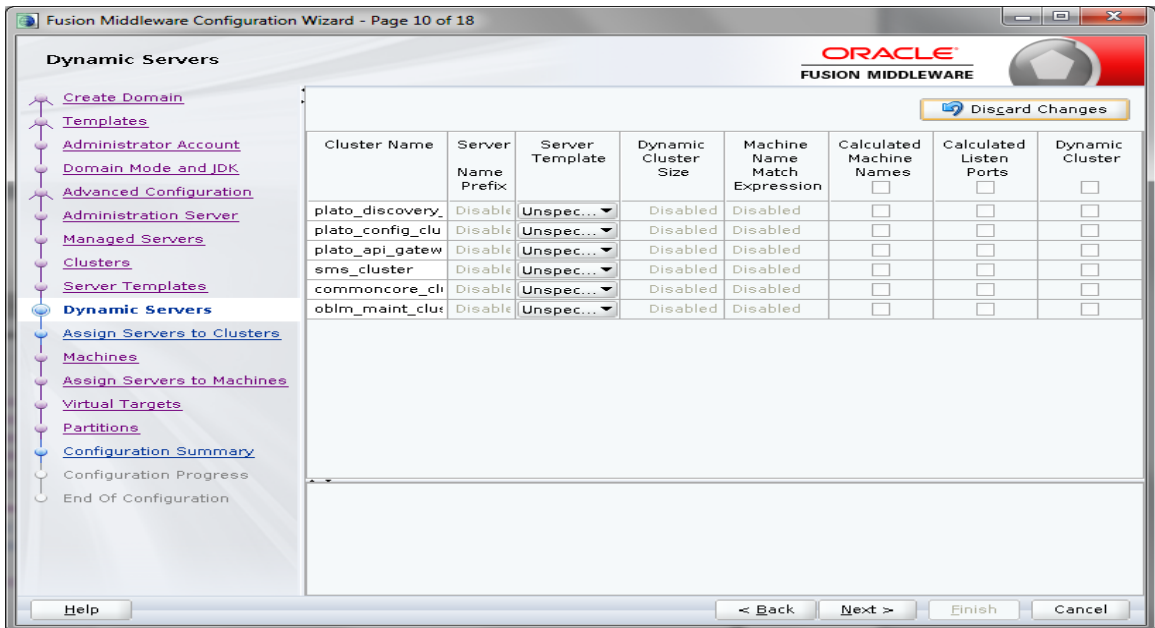
8. Add managed servers, edit listen address and port as required. (The cluster topology given below is an example)



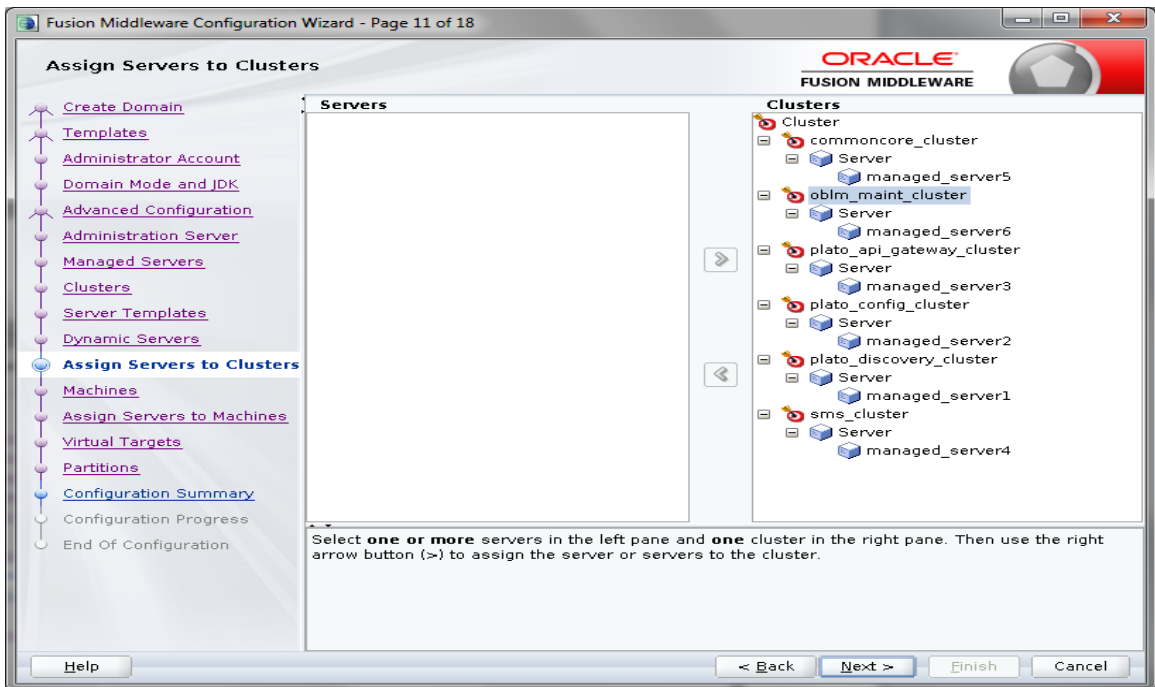
9. Add clusters one for each **managed servers** and name the clusters for example 'discovery_cluster, config_cluster, zipkinui_cluster, gateway_cluster' and click Next.



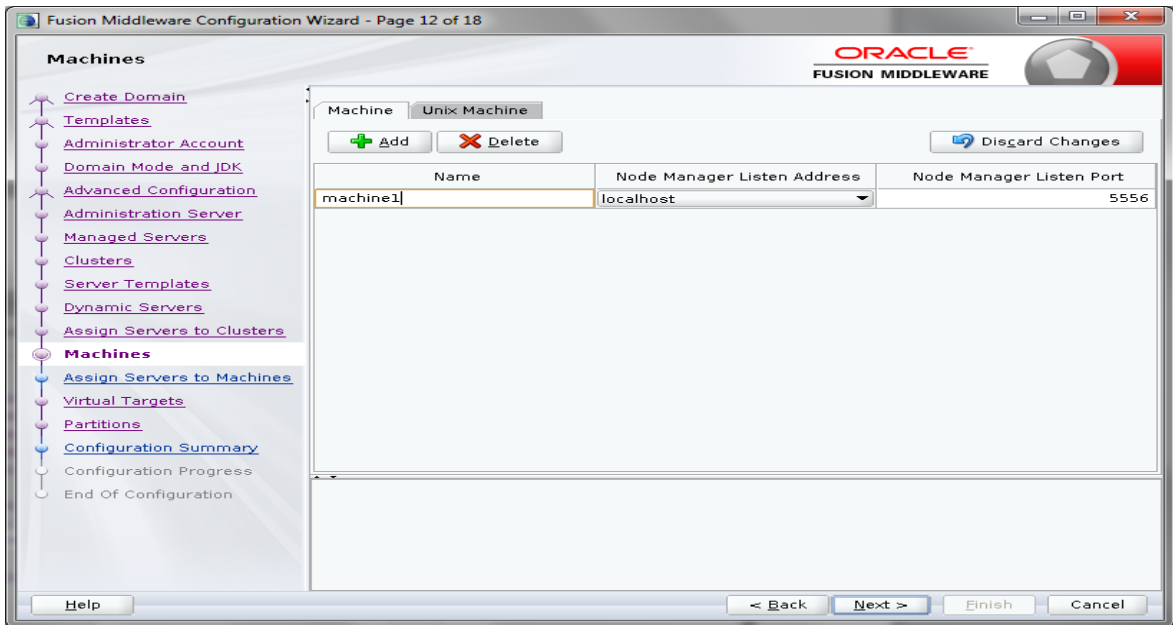
10. Skip Server Templates and click Next.



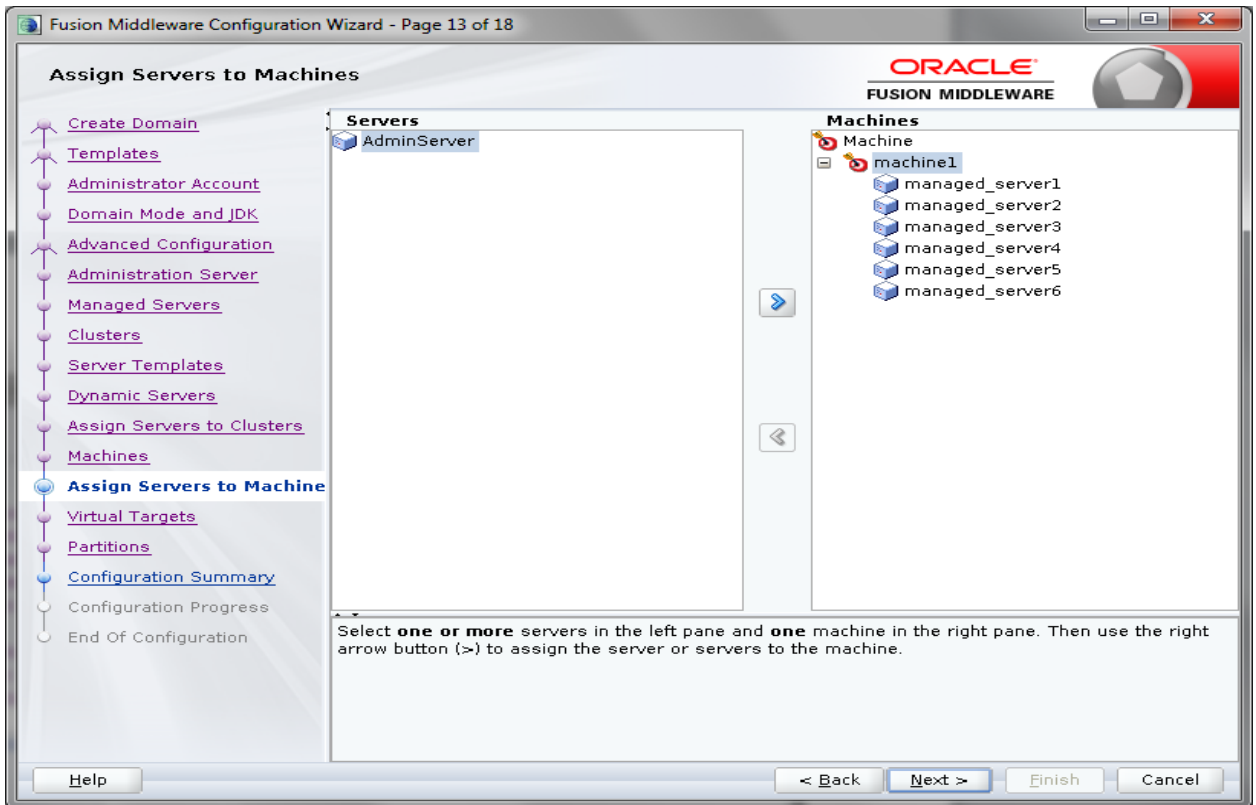
11. Skip Dynamic Servers and click Next. (The cluster topology given in the screenshot is an example)



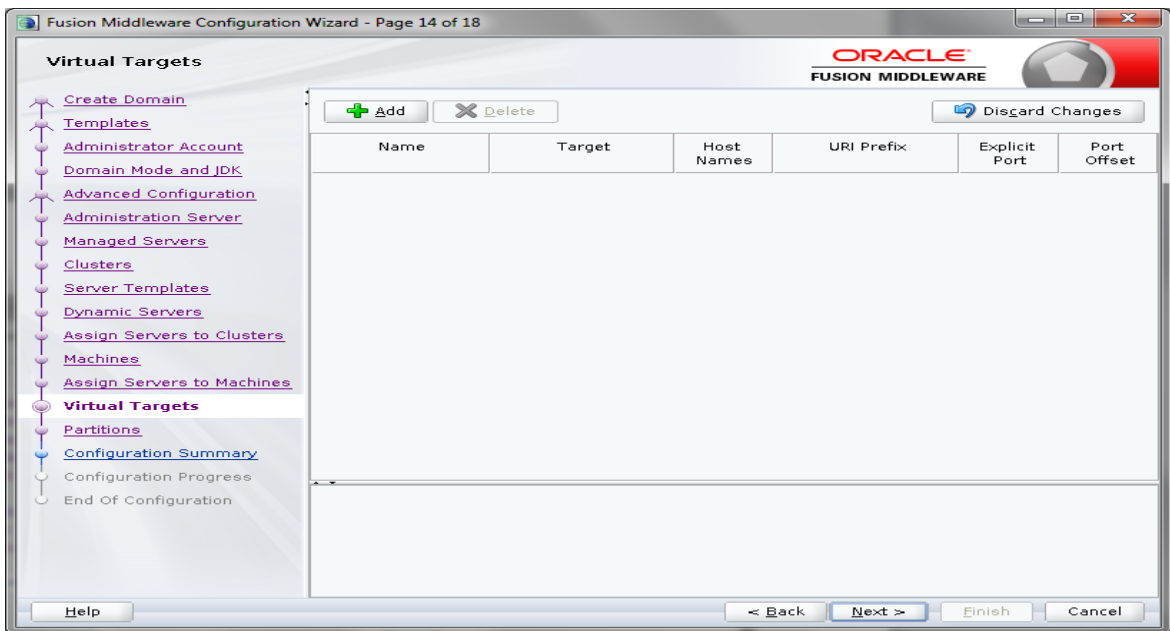
12. Assign clusters with servers.



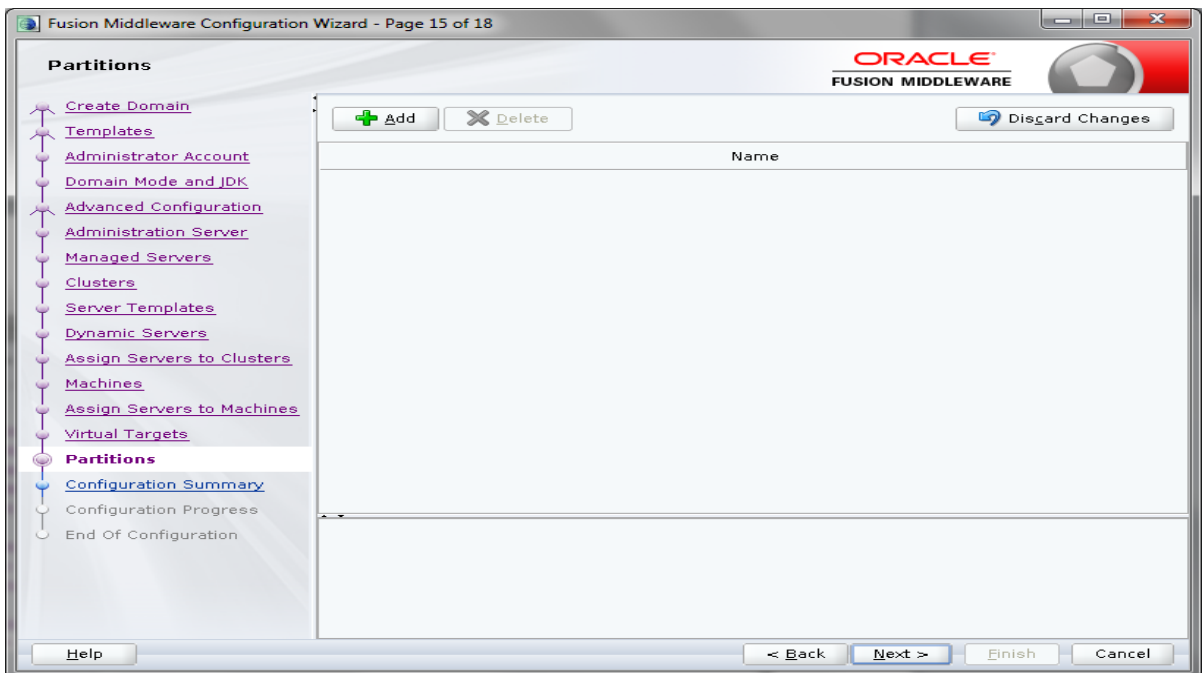
13. Add **Machine/Unix Machine** based on operating system and configure name, listen address and node manager port as required.



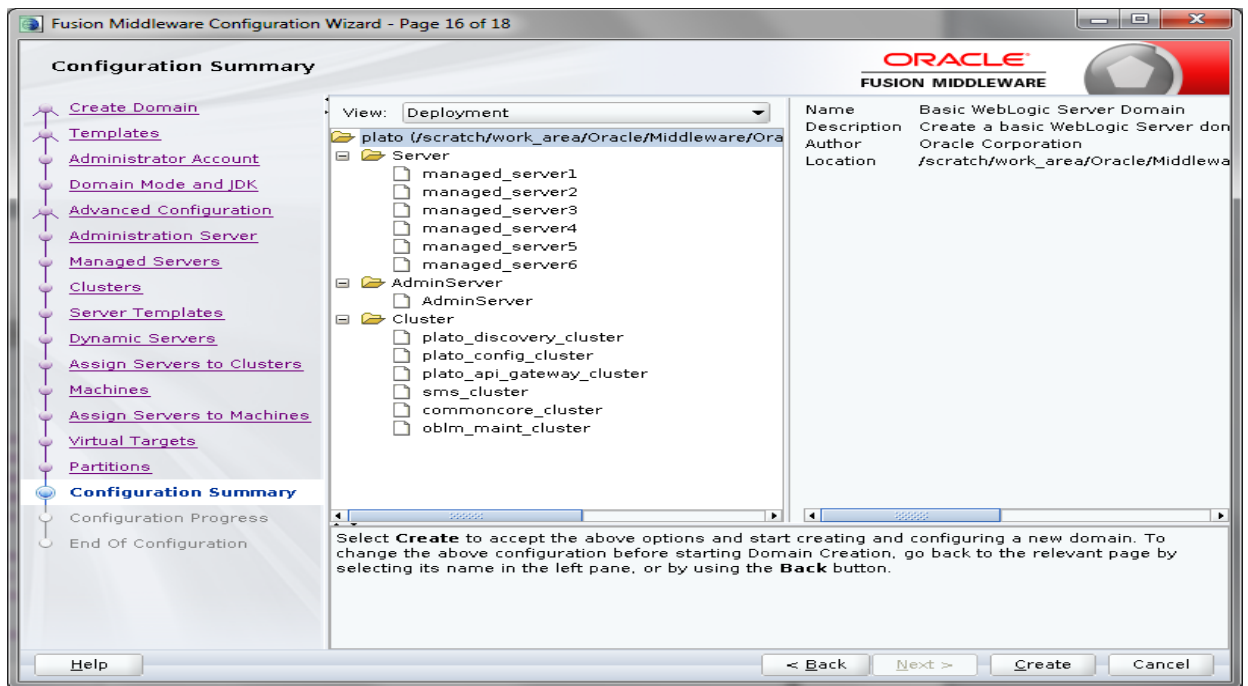
14. Map all managed servers under the machine created.



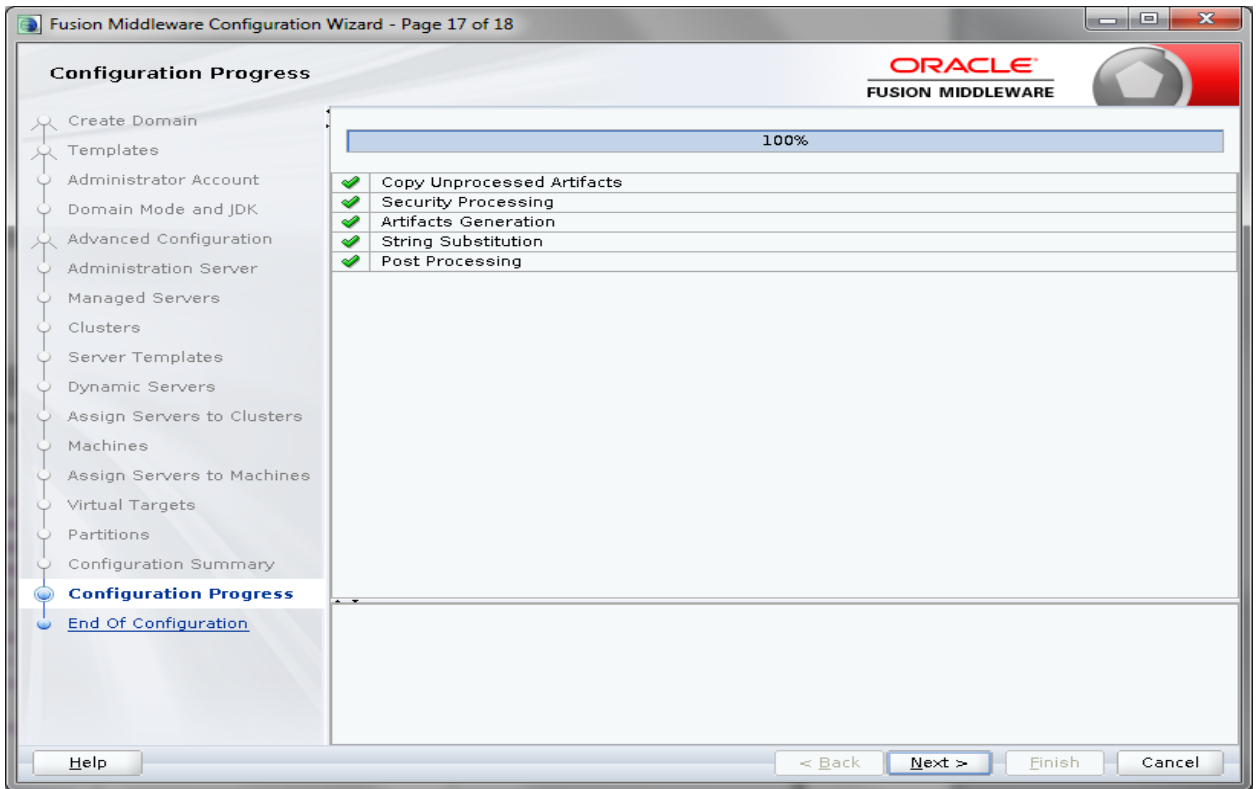
15. Skip Virtual Targets and click Next.



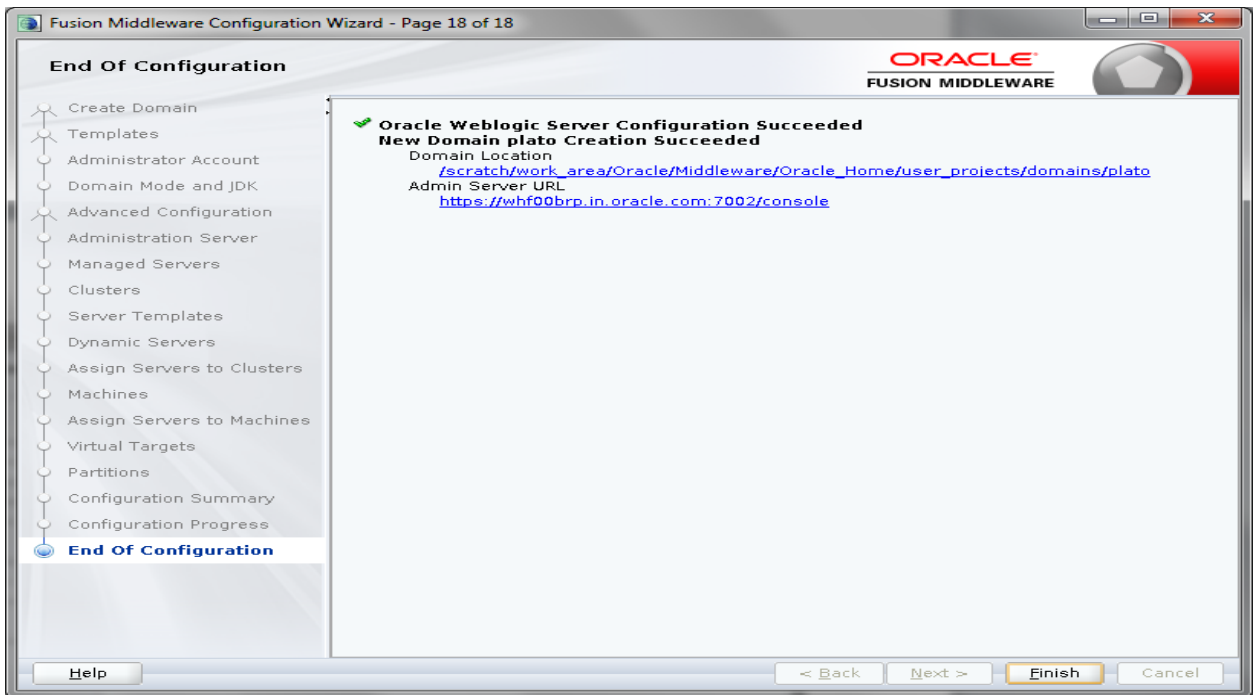
16. Skip Partitions and click Next.



17. Check the configuration summary and confirm creating domain.



18. Click Next.



19. Once done click Finish.

1.2.1 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. Go to /user_projects/domain/plato/bin.
2. Edit setDomainEnv.sh (.cmd if operating system is windows) and, set these java options.
 - a. **If SSL is not configured in the application** give the below JAVA_OPTIONS,

For the domains other than UI, give the below JAVA_OPTIONS in setDomainEnv.sh

```
JAVA_OPTIONS="{JAVA_OPTIONS} -  
Dplato.service.logging.path=/scratch/obl1m/logs -  
Dplato.service.env=DEV -Dplato.services.config.port=7004 -  
Dplato.services.config.uri=http://whf00ckj.in.oracle.com:7004 -  
Dplato.services.entityservices.port=7007"
```

```
export JAVA_OPTIONS
```

For UI where App-shell deployed,

```
JAVA_OPTIONS="{JAVA_OPTIONS} -  
Dapigateway.url=http://whf00ckj.in.oracle.com:7005"
```

```
export JAVA_OPTIONS
```

In the above JAVA_OPTIONS:

*7004 is the http port of plato-config-service managed server.
7007 is the http port of sms service managed server.
7005 is the http port of api gateway managed server.*

- b. **If SSL is configured at API Gateway Level** in the application, give the below JAVA_OPTIONS,

For the domains other than UI, give the below JAVA_OPTIONS in setDomainEnv.sh

```
JAVA_OPTIONS="{JAVA_OPTIONS} -  
Dplato.service.logging.path=/scratch/obl1m/logs -Dplato.service.env=DEV  
-Dplato.services.config.port=7504 -  
Dplato.services.config.uri=https://whf00ckj.in.oracle.com:7504 -  
Dplato.services.entityservices.port=7007"
```

```
export JAVA_OPTIONS
```

For UI where App-shell deployed,

```
JAVA_OPTIONS="{JAVA_OPTIONS} -  
Dapigateway.url=https://whf00ckj.in.oracle.com:7505"
```

```
export JAVA_OPTIONS
```

In the above JAVA_OPTIONS:

*7504 is the https port of plato-config-service managed server.
7007 is the http port of sms service managed server.
7505 is the https port of api gateway managed server.*

- c. If **SSL is configured at Micro Service Level** in the application, give the below JAVA_OPTIONS,

For the domains other than UI, give the below JAVA_OPTIONS in setDomainEnv.sh

```
JAVA_OPTIONS="{JAVA_OPTIONS} -
Dplato.service.logging.path=/scratch/obl_m/logs -
Dplato.service.env=DEV -Dplato.services.config.port=7504 -
Dplato.services.config.uri=https://whf00ckj.in.oracle.com:7504 -
Dplato.services.entityservices.port=7507 -
Djndi.resources.prefix=false -
Djavax.net.ssl.truststore=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/key_stores/OBLMTRUSTKeyStore.jks -
Djavax.net.ssl.truststorePassword=Password1 -
Djavax.net.ssl.keyStore=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/key_stores/OBLMKeyStore.jks -
Djavax.net.ssl.keyStorePassword=Password1 -
Djavax.net.ssl.HostnameVerifier=false"

export JAVA_OPTIONS
```

For UI domain where App-shell deployed, give the below JAVA_OPTIONS in setDomainEnv.sh

```
JAVA_OPTIONS="{JAVA_OPTIONS} -
Dapigateway.url=https://whf00ckj.in.oracle.com:7505 -
Djavax.net.ssl.truststore=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/key_stores/OBLMTRUSTKeyStore.jks -
Djavax.net.ssl.truststorePassword=Password1 -
Djavax.net.ssl.keyStore=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/key_stores/OBLMKeyStore.jks -
Djavax.net.ssl.keyStorePassword=Password1 -
Djavax.net.ssl.HostnameVerifier=false"

export JAVA_OPTIONS
```

In the above JAVA_OPTIONS:

*7504 is the https port of plato-config-service managed server.
7507 is the https port of sms service managed server.
7505 is the https port of api gateway managed server.*

****Please change the port in above lines accordingly.**

****Check and give valid host address and port numbers. Also create the log path.**

- d. For Zipkin configuration, Append the below system properties in **JAVA_OPTIONS** in setDomainEnv.sh (.cmd if operating system is windows)

```
-Dplato.services.logging.config=classpath:plato-logback.xml
```

Note 1: This configuration needs to be done only for PLATO & OBLM domains and not required for SMS, CMC & UI domains (where appshell is deployed).

```
-Dplato.services.sleuth.sampler.percentage=1.0
```

Note 2: It is recommended to set sampling to 0 or 0.1 (default) in production environment based on the actual sampling requirement. This configuration should be added in all the domains except UI domain (where appshell is deployed).

-Dspring.zipkin.sender.type=web

Note 3: This configuration should be added only in CMC domains.

- e. In case of "plato" domain, add the below line after # SET THE CLASSPATH tag, edit the path before saving.

```
CLASSPATH="${CLASSPATH}${CLASSPATHSEP}/scratch/work_area/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle.osdt/*"
export CLASSPATH
```

3. Create boot.properties file under /user_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security.
4. Edit boot.properties and give username and password details.

```
#Thu May 03 15:52:07 IST 2018
password=
username=
```

5. Go to /user_projects/domains/plato/bin
6. Run startWeblogic.cmd (or .sh if operating system is linux).
7. Go to /user_projects/domains/plato/nodemanager.
8. Edit nodemanager.properties as required.

```
1 DomainsFile=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/domains/oplm/nodemanager/nodemanager.domains
2 LogLimit=0
3 PropertiesVersion=12.2.1.3.0
4 AuthenticationEnabled=true
5 NodeManagerHome=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/domains/oplm/nodemanager
6 JavaHome=/scratch/jdk1.8.0_181
7 LogLevel=INFO
8 CustomIdentityKeyStorePassPhrase={AES}56JcVfW0cIQ/djCcDFH8gdG4nfmW1813L0qGuKfWk6c=
9 CustomIdentityKeyStoreFileName=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/key_store/OBLMKeyStore.jks
10 DomainsFileEnabled=true
11 ListenAddress=whf00brp.in.oracle.com
12 KeyStores=CustomIdentityAndCustomTrust
13 NativeVersionEnabled=true
14 ListenPort=5556
15 LogToStderr=true
16 weblogic.StartScriptName=startWebLogic.sh
17 SecureListener=true
18 LogCount=1
19 QuitEnabled=false
20 LogAppend=true
21 weblogic.StopScriptEnabled=false
22 StateCheckInterval=500
23 CustomIdentityPrivateKeyPassPhrase={AES}GDKGWe3uoH+Neur9H1zRTZnIk1K5bTeMXtR56rAIaqs=
24 CustomIdentityAlias=selfcert
25 CrashRecoveryEnabled=false
26 CustomIdentityKeyStoreType=JKS
27 weblogic.StartScriptEnabled=true
28 CipherSuites=TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256,TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256
29 LogFile=/scratch/work_area/Oracle/Middleware/Oracle_Home/user_projects/domains/oplm/nodemanager/nodemanager.log
30 LogFormatter=weblogic.nodemanager.server.LogFormatter
31 ListenBacklog=50
32
```

9. Go to /user_projects/domains/plato/bin
10. Run startNodeManager.cmd (or .sh if operating system is linux).
11. Start all managed servers from weblogic console
http://<hostname>:<adminserver_port_no>/console
12. Make SSL changes (For SSL setup please refer to SSL_Setup_Guide).

1.3 How to create Data Sources

1. Start **AdminServer**, **Node Manager** and make sure all the **managed servers** (targets) are in running mode.
2. Login into weblogic console (http://<hostname>:<adminserver_port_no>/console).
3. Go to **Services > Datasources > New > Generic Datasource**.

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)

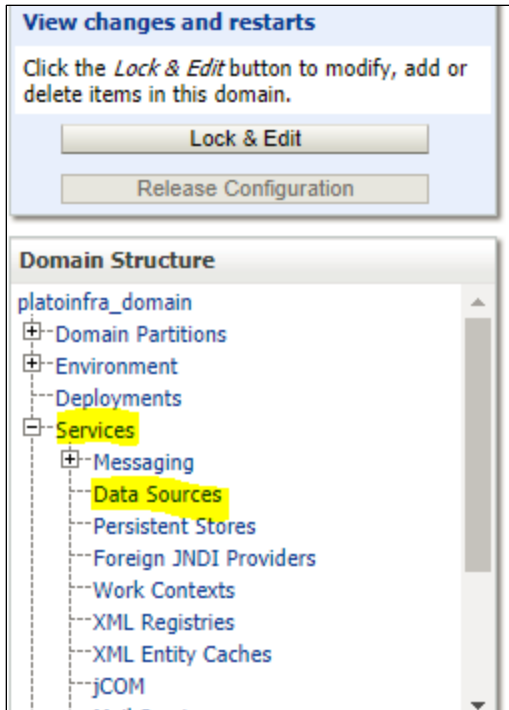
Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Clone Delete Showing 1 to 5 of 5 Previous | Next

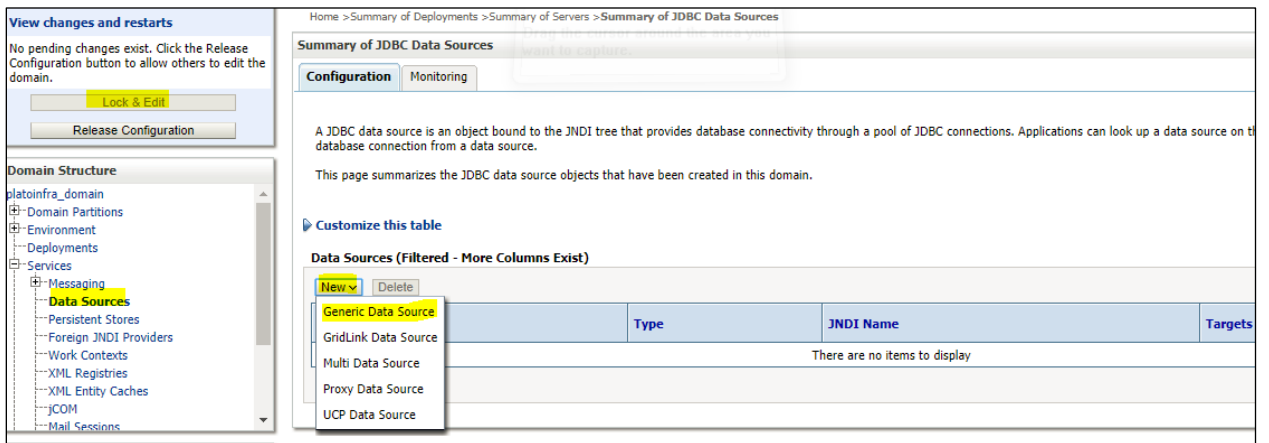
<input type="checkbox"/>	Name	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured			RUNNING	OK	7001
<input type="checkbox"/>	WLS_CONFIG	Configured	config_cluster	platoinfra_Machine	RUNNING	OK	7004
<input type="checkbox"/>	WLS_DISCOVERY	Configured	discovery_cluster	platoinfra_Machine	RUNNING	OK	7003
<input type="checkbox"/>	WLS_GATEWAY	Configured	gateway_cluster	platoinfra_Machine	RUNNING	OK	7006
<input type="checkbox"/>	WLS_ZIPKINUI	Configured	zipkinui_cluster	platoinfra_Machine	RUNNING	OK	7005

New Clone Delete Showing 1 to 5 of 5 Previous | Next

4. Click on Lock & Edit.



5. Click on New -> Generic Data Source.



6. Enter **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:**

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

Scope:

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

 **JNDI Name:**

What database type would you like to select?

Database Type:

Back Next Finish Cancel

7. 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:

Back Next Finish Cancel

8. 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 can participate in the global transaction.

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, only the local transaction can participate in the global transaction.

One-Phase Commit

Back Next Finish Cancel

9. 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:

10. Click Next & test configuration.

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:

11. Select **targets** to deploy data source.

Create a New JDBC Data Source

Back | Next | Finish | Cancel

Select Targets

You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source

Servers	
<input type="checkbox"/>	AdminServer

Clusters	
<input checked="" type="checkbox"/>	config_cluster <input type="radio"/> All servers in the cluster <input checked="" type="radio"/> Part of the cluster <input checked="" type="checkbox"/> WLS_CONFIG
<input checked="" type="checkbox"/>	discovery_cluster <input type="radio"/> All servers in the cluster <input checked="" type="radio"/> Part of the cluster <input checked="" type="checkbox"/> WLS_DISCOVERY
<input type="checkbox"/>	gateway_cluster <input type="radio"/> All servers in the cluster <input type="radio"/> Part of the cluster <input type="checkbox"/> WLS_GATEWAY
<input type="checkbox"/>	zipkinui_cluster <input type="radio"/> All servers in the cluster <input type="radio"/> Part of the cluster <input type="checkbox"/> WLS_ZIPKINUI

Back | Next | Finish | Cancel

12. View created **datasources** and 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

Name	Type	JNDI Name	Targets
PLATO	Generic	jdbc/PLATO	WLS_CONFIG, WLS_DISCOVERY

New Delete Showing 1 to 1 of 1 Previous Next

13. Click **Activate changes** after confirming the details.

Change Center

View changes and restarts

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

Activate Changes

Undo All Changes

Domain Structure

platoinfra_domain

Domain Partitions

Home Log Out Preferences Record Help

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

Summary of JDBC Data Sources

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity from a data source.

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

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
- Deployments
- Services
 - Messaging
 - Data Sources**
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts
 - XML Registries
 - XML Entity Caches
 - JCOM
 - Mail Sessions

How do I...

- Create JDBC generic data sources
- Create JDBC GridLink data sources

Home Log Out Preferences Record Help

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

Messages

All changes have been activated. No restarts are necessary.

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 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)

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

New Delete

Name	Type	JNDI Name	Targets
PLATO	Generic	jdbc/PLATO	WLS_CONFIG, WLS_DISCOVERY

New Delete

1.4 How to Deploy Application

Steps to deploy archives as application on weblogic are same for all except the targeted managed server and domain will differ.

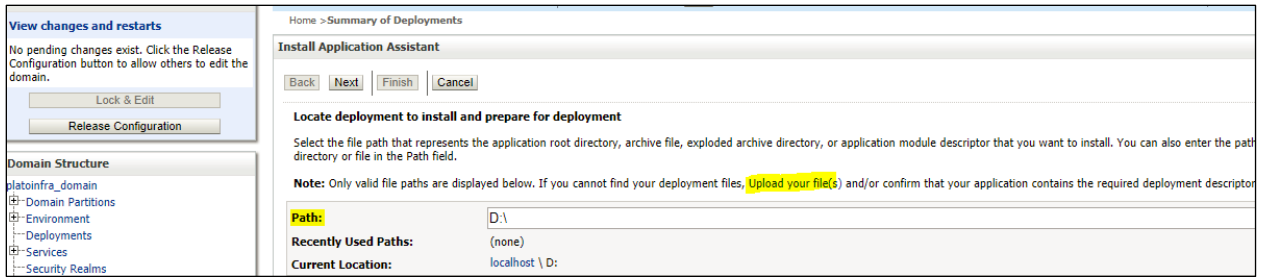
1. Start **AdminServer**, **Node Manager** and make sure all the **managed servers** (targets) are in running mode.
2. Data sources are created.
3. Login into weblogic console (http://<hostname>:<adminserver_port_no>/console).

The screenshot shows the Oracle WebLogic Console Home Page. On the left, the 'Domain Structure' tree is visible, with 'Deployments' highlighted. The main content area is titled 'Home Page' and includes sections for 'Information and Resources', 'Domain Configurations', 'Resource Group Templates', 'Resource Groups', and 'Deployed Resources'. The 'Deployments' link in the 'Deployed Resources' section is highlighted.

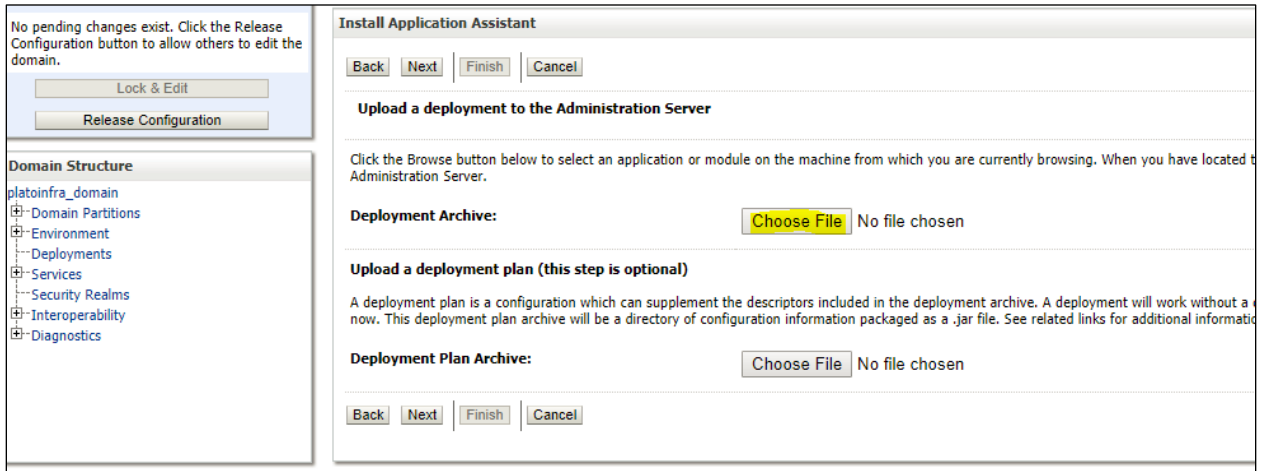
4. Click on Click **Deployments** > **Lock & Edit**.

The screenshot shows the Oracle WebLogic Console Summary of Deployments page. The left sidebar shows the 'Domain Structure' tree with 'Deployments' highlighted. The main content area is titled 'Summary of Deployments' and includes tabs for 'Configuration', 'Control', and 'Monitoring'. The 'Configuration' tab is active, showing instructions on how to update or delete applications and modules. A table titled 'Deployments' is shown with columns for Name, State, Health, Type, Targets, Scope, and Domain Partitions. The table is currently empty, displaying 'There are no items to display'.

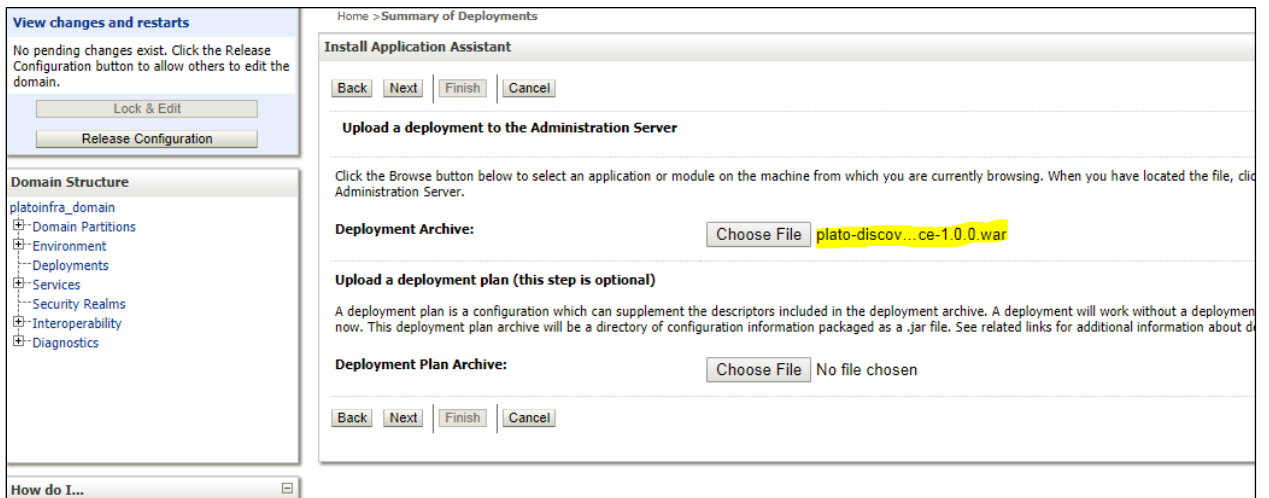
5. Click **Install**.



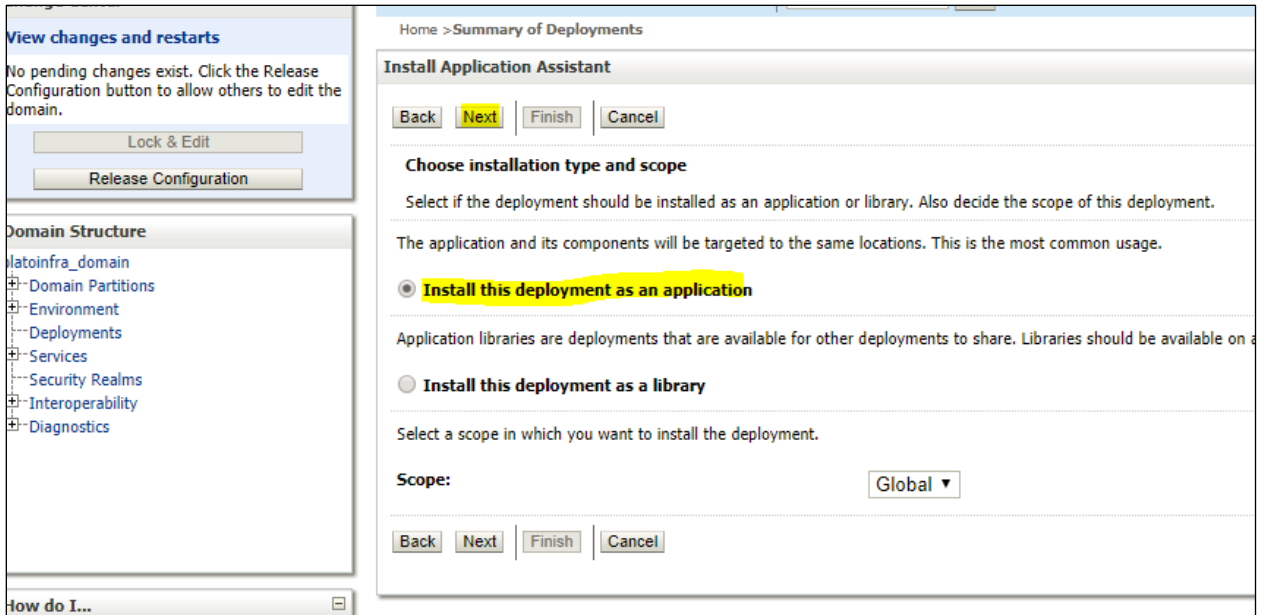
6. Click **Upload your file(s)** to archive, select a file and click **Next**.



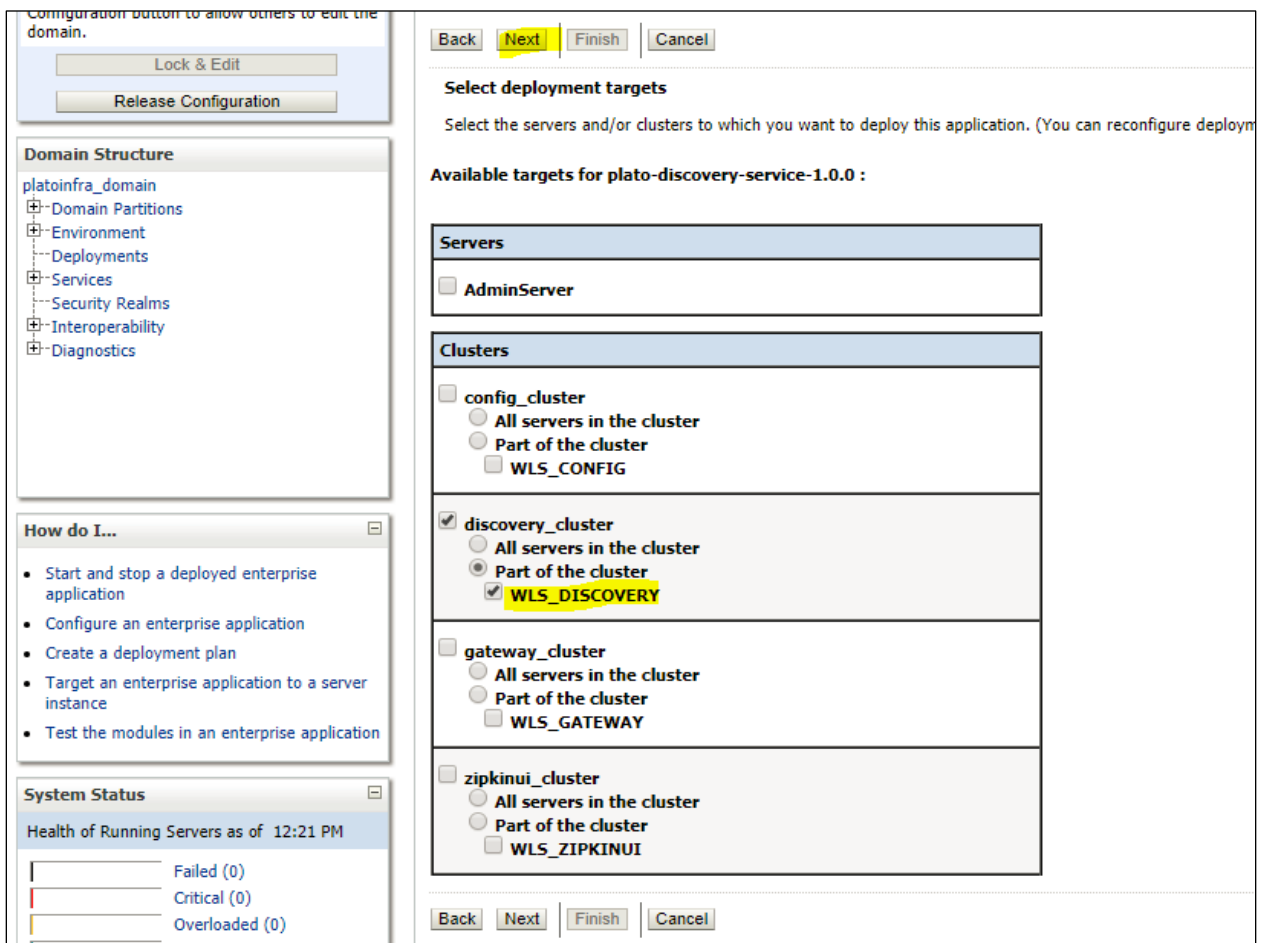
7. After archive is uploaded, click **Next**.



8. Select **Install this deploy as application** and click **Next**.



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



10. Click Next.

The screenshot shows the 'Install Application Assistant' wizard. The 'Next' button is highlighted in yellow. The 'Optional Settings' section is expanded to 'General', where the deployment name 'plato-discovery-service-1.0.0' is entered. The 'Security' section is also expanded, showing radio button options for 'DD Only', 'Custom Roles', 'Custom Roles and Policies', and 'Advanced'.

11. Click Finish.

The screenshot shows the 'Review your choices and click Finish' step of the wizard. The 'Finish' button is highlighted in yellow. The 'Additional Configuration' section is expanded, showing the 'Yes, take me to the deployment's configuration screen' option selected. The 'Summary' section shows the deployment details, including the name 'plato-discovery-service-1.0.0' and the security model 'DDOnly'.

12. 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

- platoinfra_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

Home Log Out Preferences Record Help

Home > Summary of Deployments > plato-discovery-service-1.0.0

Settings for plato-discovery-service-1.0.0

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the installed configuration of a Web application.

Name: plato-discovery-service-1.0.0 The name of this application deployment

Scope: Global Specifies if this Web application is access resource group template. [More Info...](#)

Context Root: plato-discovery-service The specific path at which this Web app

View changes and restarts

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

Lock & Edit

Release Configuration

Domain Structure

- platoinfra_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

Home > Summary of Deployments > plato-discovery-service-1.0.0

Messages

All changes have been activated. No restarts are necessary.

Settings for plato-discovery-service-1.0.0

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

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

Save

Use this page to view the installed configuration of a Web application.

Name: plato-discovery-service-1.0.0

Scope: Global

Context Root: /plato-discovery-service

13. Click **Deployments > Control** to changes the state of application from prepared to active status.

View changes and restarts

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

Lock & Edit

Release Configuration

Domain Structure

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

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-1.0.0	Prepared	OK	Web Application	WLS_DISCOVERY	Global		100

Install Update Delete

Showing 1 to 1 of 1 Previous Next

How do I...

14. Under deployment click **Start dropdown** and **Click Start all requests**.

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments

Summary of Deployments

Configuration Control Monitoring

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

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

Customize this table

Deployments

Start Stop

Showing 1 to 1 of 1 Previous Next

Name	State	Health	Type	Targets	Scope	Domain Partitions
plato-discovery-service-1.0.0	Prepared	OK	Web Application	WLS_DISCOVERY	Global	

Start Stop

Showing 1 to 1 of 1 Previous Next

15. Click Yes.

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments

Start Application Assistant

Yes No

Start Deployments

You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.

- plato-discovery-service-1.0.0

Yes No

16. You should see status as Active in the state column.

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments

Summary of Deployments

Configuration Control Monitoring

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

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

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

Customize this table

Deployments

Install Update Delete

Showing 1 to 1 of 1 Previous Next

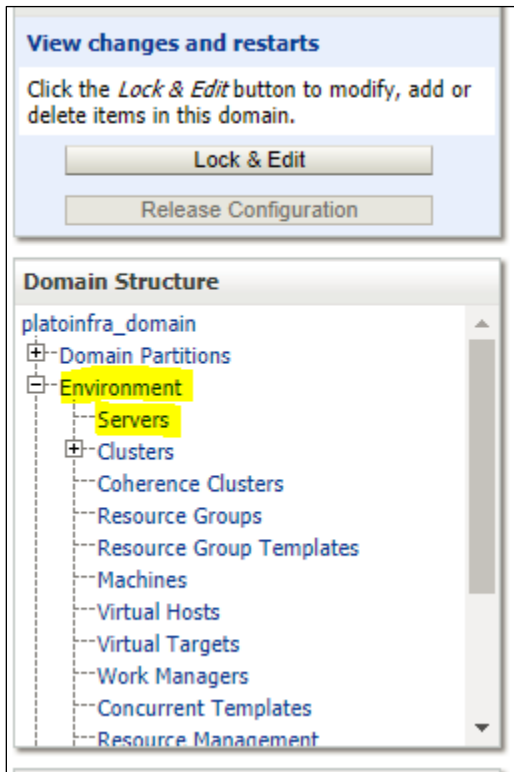
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
plato-discovery-service-1.0.0	Active	OK	Web Application	WLS_DISCOVERY	Global		100

Install Update Delete

Showing 1 to 1 of 1 Previous Next

1.5 How to Restart Servers

1. Make sure admin server is running.
2. Login into weblogic console (http://<hostname>:<adminserver_port_no>/console).
3. Go to Environment > Servers.



4. Click **Control**.

The screenshot shows the 'Summary of Servers' page. The 'Control' button is highlighted in yellow. Below the buttons, there is a table of servers. The table has columns for Name, Type, Cluster, Machine, State, Health, and Listen Port. The servers listed are AdminServer(admin), WLS_CONFIG, WLS_DISCOVERY, WLS_GATEWAY, and WLS_ZIPKINUI.

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured			RUNNING	OK	7001
WLS_CONFIG	Configured	config_cluster	platoinfra_Machine	RUNNING	OK	7004
WLS_DISCOVERY	Configured	discovery_cluster	platoinfra_Machine	RUNNING	OK	7003
WLS_GATEWAY	Configured	gateway_cluster	platoinfra_Machine	RUNNING	OK	7006
WLS_ZIPKINUI	Configured	zipkinui_cluster	platoinfra_Machine	RUNNING	OK	7005

5. 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)

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
<input checked="" type="checkbox"/> WLS_CONFIG	platoinfra_Machine	RUNNING	TASK COMPLETED
<input checked="" type="checkbox"/> WLS_DISCOVERY	platoinfra_Machine	RUNNING	None
<input checked="" type="checkbox"/> WLS_GATEWAY	platoinfra_Machine	RUNNING	TASK COMPLETED
<input checked="" type="checkbox"/> WLS_ZIPKINUI	platoinfra_Machine	RUNNING	TASK COMPLETED

6. 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.

- WLS_DISCOVERY

Yes No

7. A status must appear as illustrated (highlighted).

Messages

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

Summary of Servers

Configuration **Control**

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

Customize this table

Servers (Filtered - More Columns Exist)

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
WLS_CONFIG	platoinfra_Machine	RUNNING	TASK COMPLETED
<input checked="" type="checkbox"/> WLS_DISCOVERY	platoinfra_Machine	FORCE_SUSPENDING	TASK IN PROGRESS
WLS_GATEWAY	platoinfra_Machine	RUNNING	TASK COMPLETED
WLS_ZIPKINUI	platoinfra_Machine	RUNNING	TASK COMPLETED

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments > Summary of Servers

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...
+ Create Managed Servers
+ Clone servers
+ Delete Managed Servers
+ Delete the Administration Server
+ Start and stop servers

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 5 of 5 Previous Next

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured			RUNNING	OK	7001
WLS_CONFIG	Configured	config_cluster	platoinfra_Machine	RUNNING	OK	7004
WLS_DISCOVERY	Configured	discovery_cluster	platoinfra_Machine	SHUTDOWN	Not reachable	7003
WLS_GATEWAY	Configured	gateway_cluster	platoinfra_Machine	RUNNING	OK	7006
WLS_ZIPKINUI	Configured	zipkinui_cluster	platoinfra_Machine	RUNNING	OK	7005

New Clone Delete Showing 1 to 5 of 5 Previous Next

8. After the shutdown is completed, go to control and select the servers to **start** and click **yes** to **confirm** action.

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments > Summary of Servers

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...
+ Start and stop servers
+ Start Managed Servers from the Administration Console
+ Restart SSL
+ Start Managed Servers in Admin mode

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 5 of 5 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
WLS_CONFIG	platoinfra_Machine	RUNNING	TASK COMPLETED
WLS_DISCOVERY	platoinfra_Machine	SHUTDOWN	TASK COMPLETED
WLS_GATEWAY	platoinfra_Machine	RUNNING	TASK COMPLETED
WLS_ZIPKINUI	platoinfra_Machine	RUNNING	TASK COMPLETED

Start Resume Suspend Shutdown Restart SSL Showing 1 to 5 of 5 Previous Next

Home > Summary of Deployments > plato-discovery-service-1.0.0 > Summary of Deployments > Summary of Servers

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

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.
• WLS_DISCOVERY
Yes No

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

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

How do I...
- Start and stop servers
- Start Managed Servers from the Administration Console
- Restart SSL
- Start Managed Servers in Admin mode

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

Summary of Servers
Configuration Control

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

Customize this table

Servers (Filtered - More Columns Exist)

Start Resume Suspend Shutdown Restart SSL Showing 1 to 5 of 5 Previous Next

Server	Machine	State	Status of Last Action
AdminServer(admin)		RUNNING	None
WLS_CONFIG	platoinfra_Machine	RUNNING	TASK COMPLETED
WLS_DISCOVERY	platoinfra_Machine	STARTING	TASK IN PROGRESS
WLS_GATEWAY	platoinfra_Machine	RUNNING	TASK COMPLETED
WLS_ZIPKINUI	platoinfra_Machine	RUNNING	TASK COMPLETED

Start Resume Suspend Shutdown Restart SSL Showing 1 to 5 of 5 Previous Next

9. When all requested servers are running, go to deployments and check if deployments are in active state.

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

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

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

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 5 of 5 Previous Next

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured			RUNNING	✔ OK	7001
WLS_CONFIG	Configured	config_cluster	platoinfra_Machine	RUNNING	✔ OK	7004
WLS_DISCOVERY	Configured	discovery_cluster	platoinfra_Machine	RUNNING	✔ OK	7003
WLS_GATEWAY	Configured	gateway_cluster	platoinfra_Machine	RUNNING	✔ OK	7006
WLS_ZIPKINUI	Configured	zipkinui_cluster	platoinfra_Machine	RUNNING	✔ OK	7005

New Clone Delete Showing 1 to 5 of 5 Previous Next

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

Domain Structure
platoinfra_domain
- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...
- Install an enterprise application
- Configure 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 1 of 1 Previous Next

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
plato-discovery-service-1.0.0	Active	✔ OK	Web Application	WLS_DISCOVERY	Global		100

Install Update Delete Showing 1 to 1 of 1 Previous Next

1.6 How to compile DDL, SEQ and INC

[Note: These steps are valid, if you are using Oracle Database.]

1. Open Command Prompt.
2. Run the command `sqlplus USERNAME/PASSWORD@HostName:PortNo/ServiceName.`

```
C:\Users\>sqlplus //@1

SQL*Plus: Release 12.2.0.1.0 Production on Mon Jun 11 17:48:59 2018

Copyright (c) 1982, 2016, Oracle. All rights reserved.

Last Successful login time: Mon Jun 11 2018 17:10:22 +05:30
```

3. Type @ and navigate to your DDL,SEQ or INC folder. Provide a fully qualified address of DDL file.

Example:

```
@C:\OBLM_14.2.0.0\PLATO\plato-api-gateway\DB\DOMAIN\DDL\APP_USER.DDL
```

```
@C:\OBLM_14.2.0.0\PLATO\plato-ui-config-service\DB\DOMAIN\SEQ\PRODUCT_LEDGER_ID_SEQ.SEQ
```

```
@C:\OBLM_14.2.0.0\PLATO\plato-api-gateway\DB\DOMAIN\INC\SECURITY_CONFIG_001.INC
```

1.7 Checking Port Number

1. Login to WebLogic console using user ID and password.
2. Click **Environment** and **Server**.



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

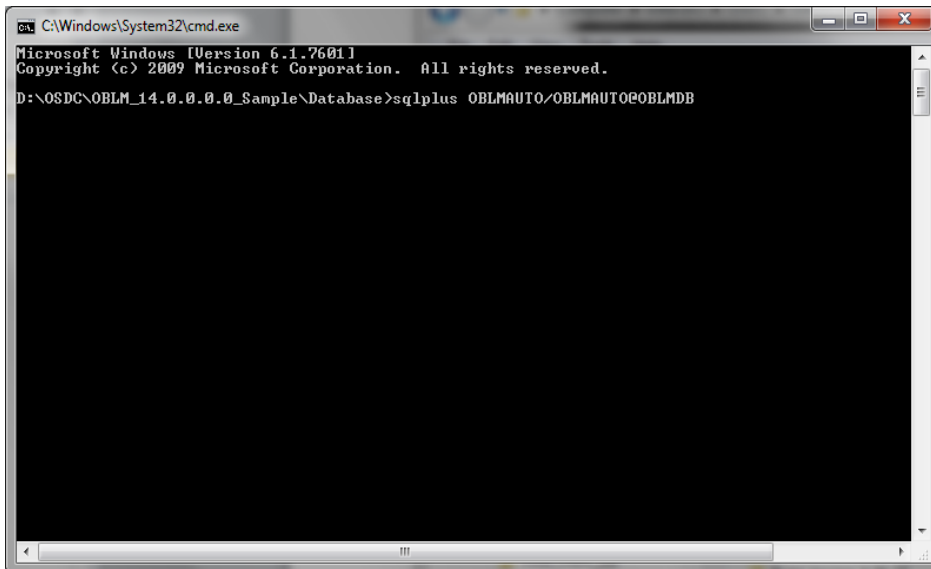
<input type="checkbox"/>	Name	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured			RUNNING	✓ OK	7020
<input type="checkbox"/>	managed_server1	Configured		Machine1	RUNNING	✓ OK	7023

1.8 Executing SQL or PLB Files

1. Go to OSDC package folder where the file to be run is present.
2. Open command prompt as administrator.
3. **Run the following command:**

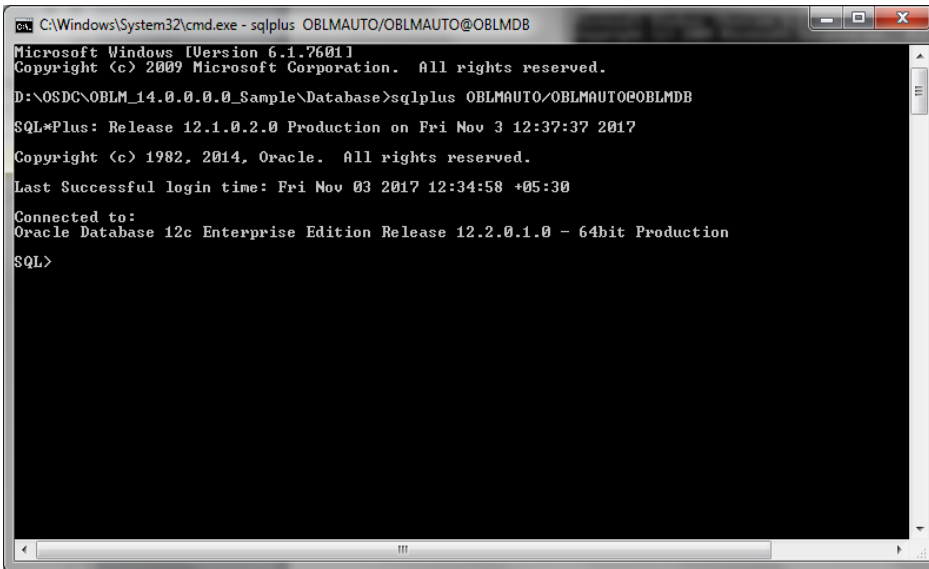
1. `sqlplus <username>/<password>@<schema_name>`

(To run the `sqlplus` command you should have the Oracle Database Client installed in your machine)



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

D:\OSDC\OBLM_14.0.0.0_Sample\Database>sqlplus OBLMAUTO/OBLMAUTO@OBLMDB
```



```
C:\Windows\System32\cmd.exe - sqlplus OBLMAUTO/OBLMAUTO@OBLMDB
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

D:\OSDC\OBLM_14.0.0.0_Sample\Database>sqlplus OBLMAUTO/OBLMAUTO@OBLMDB
SQL*Plus: Release 12.1.0.2.0 Production on Fri Nov 3 12:37:37 2017
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Last Successful login time: Fri Nov 03 2017 12:34:58 +05:30

Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
SQL>
```

4. Execute the .sql or .plb file by running the following command,

@<file_name>.sql

For ex. @plato_db_setup.sql

@<file_name>.plb

For ex. @plato_db_setup.plb

1.9 How to create Database Schema

1. Create the database schemas using sys account of DB.

Example:

```
CREATE TABLESPACE OBLM142AUTPLATO DATAFILE
'/scratch/oraofss/OracleDB12c/app/oradata/OBLMDB/OBLM142AUTPLATO.DBF' SIZE
50M AUTOEXTEND ON MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL
UNIFORM SIZE 1M;
```

```
CREATE USER OBLM142AUTPLATO IDENTIFIED BY OBLM142AUTPLATO DEFAULT
TABLESPACE OBLM142AUTPLATO TEMPORARY TABLESPACE TEMP QUOTA
UNLIMITED ON OBLM142AUTPLATO;
```

2. Provide the following grants to the created schemas.

Schema	Grants
PLATO	GRANT CREATE SESSION TO <SCHEMA_NAME>;
PLATOSEC	GRANT CREATE TABLE TO <SCHEMA_NAME>;
SMS	GRANT CREATE VIEW TO <SCHEMA_NAME>;
COMMONCORE	GRANT CREATE SYNONYM TO <SCHEMA_NAME>;
OBLM-BATCH-SERVICES	GRANT CREATE SEQUENCE TO <SCHEMA_NAME>;
OBLM-BCM-SERVICES	GRANT CREATE PROCEDURE TO <SCHEMA_NAME>;
OBLM-CASH-CONCENTRATION-SERVICES	GRANT CREATE TRIGGER TO <SCHEMA_NAME>;
OBLM-DASHBOARD-SERVICES	GRANT CREATE TYPE TO <SCHEMA_NAME>;
OBLM-INTEGRATION-SERVICES	GRANT CREATE ANY SYNONYM TO <SCHEMA_NAME>;
OBLM-INTEREST-SERVICES	GRANT SELECT ANY TABLE TO <SCHEMA_NAME>;
OBLM-MAINTENANCE-SERVICES	
OBLM-POOL-SERVICES	
OBLM-REPORT-SERVICES	
OBLM-STRUCTURE-SERVICES	
OBLM-SWEEP-SERVICES	
OBLM-IC-SERVICES	GRANT EXECUTE ON DBMS_SQL TO <SCHEMA_NAME>;

```
GRANT EXECUTE ON DBMS_LOCK TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_JOB TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_ALERT TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_REFRESH TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_PIPE TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_SHARED_POOL TO
<SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_APPLICATION_INFO TO
<SCHEMA_NAME>;
GRANT EXECUTE ON UTL_FILE TO <SCHEMA_NAME>;
GRANT CREATE SESSION TO <SCHEMA_NAME>;
GRANT CREATE SYNONYM TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_SHARED_POOL TO
<SCHEMA_NAME>;
GRANT CREATE VIEW TO <SCHEMA_NAME>;
GRANT CREATE SEQUENCE TO <SCHEMA_NAME>;
GRANT CREATE TABLE TO <SCHEMA_NAME>;
GRANT CREATE PROCEDURE TO <SCHEMA_NAME>;
GRANT CREATE TRIGGER TO <SCHEMA_NAME>;
GRANT CREATE TYPE TO <SCHEMA_NAME>;
GRANT CREATE LIBRARY TO <SCHEMA_NAME>;
GRANT CREATE DATABASE LINK TO <SCHEMA_NAME>;
GRANT CREATE ANY SYNONYM TO <SCHEMA_NAME>;
GRANT SELECT ANY TABLE TO <SCHEMA_NAME>;
GRANT EXECUTE ON DBMS_SHARED_POOL TO
<SCHEMA_NAME>;
GRANT ALL ON DBMS_AQADM TO <SCHEMA_NAME>;
GRANT ALL ON DBMS_AQ TO <SCHEMA_NAME>;
```

```
GRANT AQ_ADMINISTRATOR_ROLE TO <SCHEMA_NAME>;  
GRANT AQ_USER_ROLE TO <SCHEMA_NAME>;  
GRANT IMP_FULL_DATABASE TO <SCHEMA_NAME>;  
GRANT EXECUTE ON DBMS_MONITOR TO <SCHEMA_NAME>;  
GRANT ALL ON REDACTION_POLICIES TO <SCHEMA_NAME>;  
GRANT ALL ON REDACTION_COLUMNS TO <SCHEMA_NAME>;  
GRANT ALL ON DBMS_REDACT TO <SCHEMA_NAME>;
```



Annexure
Oracle Banking Liquidity Management
Version 14.3.0.0.0
[May] [2019]

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Oracle Park
Off Western Express Highway
Goregaon (East)
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India

Worldwide Inquiries:
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