Oracle® Banking Microservices Architecture Configuration and Deployment Guide



Release 14.7.3.0.0 F92530-01 February 2024

ORACLE

Oracle Banking Microservices Architecture Configuration and Deployment Guide, Release 14.7.3.0.0

F92530-01

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Preface

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- Related Resources
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Purpose

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

Audience

This guide is intended for WebLogic admin or ops-web team who are responsible for installing OFSS Banking Products.

Documentation Accessibility

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

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.



Related Resources

For more information on any related features, refer to the following documents

• Product Installation Guide

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
LDAP	Lightweight Directory Access Protocol



Placeholder Update for Oracle Banking Microservices Architecture Services

This topic provides the information about the various methods to perform the placeholder update for Oracle Banking Microservices Architecture services.

- Method 1 Via setUserOverrides.sh file
 This topic provides the systematic instructions to run Oracle Banking Microservices
 Architecture services through setUserOverrides.sh file.
- Method 2 Via Passing the -D params in the Server Start Argument This topic provides the systematic instructions to run the Oracle Banking Microservices Architecture services by passing the -D params in the Server start argument.
- Method 3 Using env files and setUserOverrides.sh file This topic provides the systematic instructions to run Oracle Banking Microservices Architecture services by using env files and setUserOverrides.sh file.
- Method 4 Workflow Configuration This topic provides the systematic instructions to run Oracle Banking Microservices Architecture services through workflow configuration.

1.1 Method 1 – Via setUserOverrides.sh file

This topic provides the systematic instructions to run Oracle Banking Microservices Architecture services through setUserOverrides.sh file.

- 1. Create a file named 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 to run Oracle Banking Microservices Architecture Services properly.

Note:

Below is the list of **-D params** (ENV variables) that must be set for all 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-discoveryservice/eureka



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

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

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

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

//Flyway Common Placeholders

-Dflyway.domain.placeHolders.eureka.host= <DISCOVERY_SERVICE_HOST>

-Dflyway.domain.placeHolders.eureka.port= <DISCOVERY_SERVICE_PORT>

-Dflyway.domain.placeHolders.plato-api-gateway.server.port= <API_GATEWAY_PORT>

-Dflyway.domain.placeHolders.zipkin.host= <ZIPKIN_HOSTNAME>

-Dflyway.domain.placeHolders.zipkin.port= <ZIPKIN_PORT>

//SMS - Needed for other services also

-Dflyway.domain.placeHolders.sms.username= <SMS_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.sms.password= <SMS_SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.sms.jdbcUrl= <SMS_SCHEMA_URL>

-Dflyway.domain.placeHolders.sms.schemas= <SMS_SCHEMA_NAME>

//Plato Config Service - Needed for other services also

-Dflyway.domain.placeHolders.plato-config.username= <PLATO_DB_USERNAME>

-Dflyway.domain.placeHolders.plato-config.password= <PLATO_DB_PASSWORD>"

-Dflyway.domain.placeHolders.plato-config.jdbcUrl= <PLATO_DB_URL>

-Dflyway.domain.placeHolders.driver.className= oracle.jdbc.driver.OracleDriver

-Dflyway.domain.placeHolders.plato-config.schemas= <PLATO_DB_SCHEMANAME>

//Plato Api Gateway - Needed for other services also

-Dflyway.domain.placeHolders.api-gateway.username= <SECURITY_DB_USERNAME>

-Dflyway.domain.placeHolders.api-gateway.password= <SECURITY_DB_PASSWORD>

-Dflyway.domain.placeHolders.api-gateway.jdbcUrl= <SECURITY_DB_URL>

-Dflyway.domain.placeHolders.api-gateway.schemas= <SECURITY_SCHEMANAME>

-Dflyway.domain.placeHolders.apigateway.host= <APIGATEWAY_ROUTER_HOSTNAME>

-Dflyway.domain.placeHolders.apigateway.port= <APIGATEWAY_ROUTER_PORT>

-Dflyway.domain.placeHolders.USER.STORE= <USER.STORE>

-Dflyway.domain.placeHolders.LDAP.CORS.allowed.origin= <LDAP_CORS>



-Dflyway.domain.placeHolders.LDAP.credential.SALT= <LDAP_CREDENTIALS_SALT>

-Dflyway.domain.placeHolders.JWT.EXPIRY.seconds= <JWT_EXPIRY_SECONDS>

-Dflyway.domain.placeHolders.LDAP.url = <LDAP_SERVER_URL >

-Dflyway.domain.placeHolders.LDAP.userId = <LDAP_SERVER_USER>

-Dflyway.domain.placeHolders.LDAP.server.base = <LDAP_SERVER_BASE>

-Dflyway.domain.placeHolders.LDAP.server.credential = <LDAP_CREDENTIALS>

-Dflyway.domain.placeHolders.LDAP.usersearch.base = <LDAP_USER_BASE>

-Dflyway.domain.placeHolders LDAP.user.prefix = <LDAP_USER_PREFIX>

-Dflyway.domain.placeHolders.LDAP.provider = <LDAP_PROVIDER>

-Dflyway.domain.placeHolders.TOKEN.autoregenerate = <TOKEN_AUTOREGENERATION>

-Dflyway.domain.placeHolders.SSO.enabled = <SSO_ENABLED>

-Dflyway.domain.placeHolders.TOKEN.regeneration.enabled = <TOKEN_ALWAYSNEW_GENERATION >

-Dplato-api-gateway.enableAudit=true

//Plato Discovery Service

-Dflyway.domain.placeHolders.plato-discoveryservice.server.port=<DISCOVERY_SERVICE_PORT>

//Plato UI-Config Services

-Dflyway.domain.placeHolders.plato-ui-configservices.server.port=<UICONFIG_SERVICE_PORT>

-Dflyway.domain.placeHolders.plato-uiconfig.username=<UICONFIG_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.plato-uiconfig.password=<UICONFIG_SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.plato-ui-config.jdbcUrl=<UICONFIG_SCHEMA_URL>

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

//Plato Apigateway Router Service

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

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

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

//Plato Feed Services

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

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

-Dflyway.domain.placeHolders.plato-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-feedservices.schemas=<FEED_SCHEMA_NAME>

//Plato Batch Server

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

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

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

-Dflyway.domain.placeHolders.plato-batchserver.username=<BATCH_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.plato-batchserver.password=<BATCH_SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.plato-batchserver.jdbcUrl=<BATCH_SCHEMA_URL>

-Dflyway.domain.placeHolders.plato-batchserver.schemas=<BATCH_SCHEMA_NAME>

// Plato-Alerts-Management-Services

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

-Dflyway.domain.placeHolders.plato-alerts-managementservices.plato.eventhub.kafka.brokers=<EVETNHUB_KAFKA_BROKERS>

-Dflyway.domain.placeHolders.plato-alerts-managementservices.plato.eventhub.zk.nodes=<ZK_NODES>

-Dflyway.domain.placeHolders.plato-alerts-managementservices.username=<ALERTS_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.plato-alerts-managementservices.password=<ALERTS_SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.plato-alerts-managementservices.jdbcUrl=<ALERTS_SCHEMA_URL>

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

//Plato Orch Service

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

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

//Plato Transport Service

Dflyway.domain.placeholders.transport.config.db.jndi=\$ {PLATOTRANSPORT_JNDI}

Dflyway.domain.placeholders.transport.config.schemas=\$ {PLATOTRANSPORT_SCHEMA}



Dflyway.domain.placeholders.plato-transport-services.coherence.enabled=false

//Conductor

-Dconductor.properties=<CONDUCTOR_CONFIG_FILE_PATH>

//Plato Regional Configurator Service

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

-Dflyway.domain.placeHolders.plato-regional-configurator-services.locations =

- "db/migration/domain/obrc" (By default)

- "db/migration/domain/obrc, db/migration/domain<YOUR DOMAINS>"

-Dflyway.domain.placeHolders.plato-regional-configurator-services.schemas = "OBRC"

-Dflyway.domain.placeHolders.plato-regional-configurator-services.db.jndi = "jdbc/OBRC"

-Dflyway.domain.placeHolders. plato-regional-configuratorservices.username=<OBRC_SCHEMA_USERNAME>

-Dflyway.domain.placeHolders. plato-regional-configuratorservices.password=<OBRC_SCHEMA_PASSWORD>

//Common core NLP services

-Dflyway.domain.placeholders.cmc-nlp-annotatorservices.server.port=<CMC_NLP_ANNOTATOR_SERVICES_PORT>

-Dflyway.domain.placeholders.cmc-nlp-dashboard-widgetservices.server.port=<CMC_NLP_DASHBOARD_SERVICES_PORT>

-Dflyway.domain.placeholders.cmc-nlp-model-mngmntservices.server.port=<CMC_NLP_MODEL_MANGEMENT_PORT>

-Dflyway.domain.placeholders.cmc-nlp-online-processingservices.server.port=<CMC_NLP_ONLINE_PROCESSING_PORT>

-Dflyway.domain.placeholders.cmc-nlp-tag-maintservices.server.port=<CMC_NLP_TAG_MAINTENANCE_PORT>

-Dflyway.domain.placeholders.cmc-nlp-text-extractionservices.server.port=<CMC_NLP_TEXT_EXTRACTION_PORT>

-Dflyway.domain.placeholders.cmc-nlp-txn-logservices.server.port=<CMC_NLP_TXN_LOG_SERVICES_PORT>

-Dflyway.domain.placeholders.cmc-nlp-utilservices.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-mlservices.server.emailServerHost=<Email_Server_Host>

-Dflyway.domain.placeholders.cmc-fc-ai-mlservices.server.emailServerPort=<Email_Server_PORT>



-Dflyway.domain.placeholders.cmc-fc-ai-mlservices.server.pollingFrequency=<Polling_Frequency>

-Dflyway.domain.placeholders.cmc-fc-ai-mlservices.server.pollerInitialDelay=<Poller_Initial_Delay>

-Dflyway.domain.placeholders.cmc-fc-ai-mlservices.server.emailPassword=<Poller_Email_Password>

// Common Core Interest Rate Service

-Dflyway.domain.placeHolders.cmc-interest-rate-services.server.port=<8020>

-Dflyway.domain.placeHolders.cmc-interest-rate-services.schemas=<CMNCORE>

-Dflyway.domain.placeHolders.cmc-interest-rateservices.coherence.enabled=<false>

1.2 Method 2 – Via Passing the -D params in the Server Start Argument

This topic provides the systematic instructions to run the Oracle Banking Microservices Architecture services by passing the -D params in the Server start argument.

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

1. On Domain Structure, click Environment. Under Environment, click Servers.

The Summary of Servers screen displays.

mmary of Serv	vers								
onfiguration	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.									
2									
Customize th Servers (Filter Click the Lock	i is table red - More Coli & <i>Edit</i> button in	umns Exist) the Change Cente	r to activate all the butto	ons on this page.					
New Clone	Delete						Sh	owing 1 to 2 of 2 Previous Ne	
Name 🔗	>		Туре	Cluster	Machine	State	Health	Listen Port	
AdminSer	ver(admin)		Configured		whf00dkx	RUNNING	🖋 ОК	7001	
managed	1 server		Configured		whf00dkx	RUNNING	🖋 ок	7003	
New Clone	Delete						Sh	owing 1 to 2 of 2 Previous Ne	

Figure 1-1 Summary of Servers

2. On the Servers (Filtered - More Columns Exist) table, click managed server to pass the values.

The Settings for managed server tab displays.



	11000000	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes			
General Clust	er Services	Keystor	es SSL	Federation	Services	Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Start
/eb Services	Coherence											
lick the Lock	& Edit button	in the Char	iao Contor	to modify the	sottings a	n this nado						
avo	Lun button	in the critar	ige center	to modify the	e settings t	in this page.						
WC .												
Node Manager	is a Webl onic	Server utili	ty that yo	u can use to s	tart susne	nd shut down a	and restart s	ervers in no	rmal or une	xnected conditio	ons. Use this name to c	configure the startup se
hat Node Mana	ager will use to	o start this	server on	a remote mad	hine.	na, onac down, c	and restart s		and or and		no. Obe this page to e	toringure the startup se
ava Home:									The Java	a home directory	(path on the machine	e running Node Manage
									use whe	n starting this se	erver. More Info	
ava Vendor:									The Java	a Vendor value t	o use when starting th	nis server. More Info
FA Home:									The BEA	home directory	(nath on the machine	running Node Manage
Littioner									use whe	n starting this se	erver. More Info	ranning node nanagei
oot Directory									be on th	ctory that this se e computer that	hosts Node Manager.	Irectory. This directory If you do not specify a
									Directory	y value, the dom	ain directory is used t	by default. More Info
lace Dath:									The class	enath (nath on t	ho machino running N	lada Managar) ta usa w
1055 Fault.									starting	this server. Mo	re Info	ioue manager) to use w

Figure 1-2 Settings for managed server

- 3. On Settings for managed server tab, select Server Start tab.
- 4. 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 n that Node Manager will use to start this server on a remote machine.	ormal or unexpected conditions. Use this page to configure the startup settings
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: -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 	The arguments to use when starting this server. More Info

5. Save the configuration and restart the managed server.

After restart, the service can be started or deployed properly.



1.3 Method 3 – Using env files and setUserOverrides.sh file

This topic provides the systematic instructions to run Oracle Banking Microservices Architecture services by using env files and setUserOverrides.sh file.

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}"
fi
if [ -f "$config file" ]
then
  while read -r prop || [ -n "$prop" ]
  do
     case "$prop" in \#*) continue ;; esac
     if [ -z "${prop}" ]; then
      continue
   else
      PLACEHOLDERS=${PLACEHOLDERS}" "$(echo -D$prop)
     PLACEHOLDERS="${PLACEHOLDERS}"
fi
   done < "$config file"</pre>
else
   echo "$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.

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.

Sample file for plato-config-deploy.env is given below:

Managed server name of plato-config service
PLATO CONFIG MANAGED SERVER NAME=

plato config flyway connection entries
flywayTask=migrate
flyway.enabled=true
spring.flyway.enabled=false
plato-config.flyway.domain.db.username=
plato-config.flyway.domain.db.password=
plato-config.flyway.domain.db.jdbcUrl=
plato-config.flyway.domain.schemas=
plato-config.flyway.domain.locations=db/migration/domain/plato,db/
migration/domain/sms,db/migration/domain/cmc,db/migration/domain/obvam

Kafka properties for all services
flyway.domain.placeholders.plato.eventhub.broker.hosts=
flyway.domain.placeholders.plato.eventhub.zookeper.hosts=

Kafka Security for all services
flyway.domain.placeholders.plato.eventhub.broker.hosts=
flyway.domain.placeholders.plato.eventhub.zookeper.hosts=
flyway.domain.placeholders.kafka.ssl.truststore.location=
flyway.domain.placeholders.kafka.ssl.truststore.password=
flyway.domain.placeholders.kafka.broker.username=
flyway.domain.placeholders.kafka.broker.password=

common entries for all services
flyway.domain.placeholders.driver.className=oracle.jdbc.driver.OracleDrive
r
spring.cloud.loadbalancer.ribbon.enabled=false
spring.main.allow-circular-references=true

eureka entries for all services
flyway.domain.placeholders.eureka.host=
flyway.domain.placeholders.eureka.port=

zipkin entries for all services
flyway.domain.placeholders.zipkin.host=
flyway.domain.placeholders.zipkin.port=



```
### plato config flyway placeholder entries ###
flyway.domain.placeholders.plato-config.username=
flyway.domain.placeholders.plato-config.password=
flyway.domain.placeholders.plato-config.jdbcUrl=
flyway.domain.placeholders.plato-config.schemas=
flyway.domain.placeholders.plato-config.sessionIdleTimeout=
flyway.domain.placeholders.plato-config.sessionIdleWarningTime=
flyway.domain.placeholders.plato-config.environment=
### plato api-gateway flyway placeholder entries ###
flyway.domain.placeholders.api-gateway.host=
flyway.domain.placeholders.api-gateway.username=
flyway.domain.placeholders.api-gateway.password=
flyway.domain.placeholders.api-gateway.jdbcUrl=
flyway.domain.placeholders.api-gateway.schemas=
flyway.domain.placeholders.plato-api-gateway.server.port=
### plato api-gateway LDAP flyway placeholder entries ###
flyway.domain.placeholders.USER.STORE=
flyway.domain.placeholders.LDAP.CORS.allowed.origin=
flyway.domain.placeholders.LDAP.credential.SALT=
flyway.domain.placeholders.JWT.EXPIRY.seconds=
flyway.domain.placeholders.LDAP.url=
flyway.domain.placeholders.LDAP.userId=
flyway.domain.placeholders.LDAP.server.base=
flyway.domain.placeholders.LDAP.server.credential=
flyway.domain.placeholders.LDAP.usersearch.base=
flyway.domain.placeholders.LDAP.user.prefix=
# Allowed values for LDAP provider are: EMBEDDED WEBLOGIC, PLATO
# If LDAP is running in weblogic then value should be
EMBEDDED WEBLOGIC
# If spring based LDAP(which is run through a jar provided) is
used, then the value should be PLATO
flyway.domain.placeholders.LDAP.provider=
flyway.domain.placeholders.TOKEN.autoregenerate=
flyway.domain.placeholders.SSO.enabled=
flyway.domain.placeholders.TOKEN.regeneration.enabled=
### plato-ui-config flyway placeholder entries ###
flyway.domain.placeholders.plato-ui-config.username=
flyway.domain.placeholders.plato-ui-config.password=
flyway.domain.placeholders.plato-ui-config.jdbcUrl=
flyway.domain.placeholders.plato-ui-config.schemas=
flyway.domain.placeholders.plato-ui-config-services.server.port=
flyway.domain.placeholders.apigateway.host=
flyway.domain.placeholders.apigateway.port=
### plato-discovery flyway placeholder entries ###
flyway.domain.placeholders.plato-discovery-service.server.port=
```

```
### plato-apigateway-router flyway placeholder entries ###
flyway.domain.placeHolders.plato-apigateway-router.server.port=
flyway.domain.placeHolders.plato-apigateway-router.router.protocol=
flyway.domain.placeHolders.plato-apigateway-
router.router.meadmin.port=
```

```
### plato-orch flyway placeholder entries ###
flyway.domain.placeholders.plato-orch-service.server.port=
flyway.domain.placeholders.plato-orchestrator.hostname=
```

plato-feed flyway placeholder entries
flyway.domain.placeholders.plato-feed-services.username=
flyway.domain.placeholders.plato-feed-services.jdbcUrl=
flyway.domain.placeholders.plato-feed-services.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.jdbcUrl=
flyway.domain.placeholders.plato-batch-server.schemas=
flyway.domain.placeholders.plato-batch-server.server.port=
flyway.domain.placeholders.plato-batchserver.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.jdbcUrl=
flyway.domain.placeholders.plato-alerts-management-services.schemas=
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-accountservices.server.port= flyway.domain.placeholders.cmc-branch-services.server.port= flyway.domain.placeholders.cmc-customer-services.server.port= flyway.domain.placeholders.cmc-external-chart-accountservices.server.port= flyway.domain.placeholders.cmc-external-system-services.server.port=



```
flyway.domain.placeholders.cmc-advice-services.server.port=
flyway.domain.placeholders.cmc-facilities-services.server.port=
flyway.domain.placeholders.cmc-txn-code-services.server.port=
flyway.domain.placeholders.cmc-settlement-services.server.port=
flyway.domain.placeholders.cmc-businessoverrides-
services.server.port=
flyway.domain.placeholders.cmc-resource-segment-orchestrator-
service.server.port=
flyway.domain.placeholders.cmc-screenclass-services.server.port=
flyway.domain.placeholders.cmc-datasegment-services.server.port=
flyway.domain.placeholders.cmc-settlements-services.server.port=
flyway.domain.placeholders.cmc-transactioncontroller-
services.server.port=
flyway.domain.placeholders.cmc-report-services.server.port=
flyway.domain.placeholders.cmc-nlp-annotator-services.server.port=
flyway.domain.placeholders.cmc-nlp-dashboard-widget-
services.server.port=
flyway.domain.placeholders.cmc-nlp-model-mngmnt-
services.server.port=
flyway.domain.placeholders.cmc-nlp-online-processing-
services.server.port=
flyway.domain.placeholders.cmc-nlp-tag-maint-services.server.port=
flyway.domain.placeholders.cmc-nlp-text-extraction-
services.server.port=
flyway.domain.placeholders.cmc-nlp-txn-log-services.server.port=
flyway.domain.placeholders.cmc-nlp-util-services.server.port=
flyway.domain.placeholders.cmc-batch-services.server.port=
flyway.domain.placeholders.cmc-fc-ai-ml-services.server.port=
flyway.domain.placeholders.cmc-fc-ai-ml-services.postingPath=
flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingEmail=
flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerPort=
flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerHost=
flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingFrequency=
flyway.domain.placeholders.cmc-fc-ai-ml-services.pollerInitialDelay=
flyway.domain.placeholders.cmc-fc-ai-ml-services.emailPassword=
flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingPath=
### biPublisher related cmc-report-service entries ###
flyway.domain.placeholders.weblogic.userid=
flyway.domain.placeholders.weblogic.password=
flyway.domain.placeholders.biPublisher.host=
flyway.domain.placeholders.biPublisher.port=
flyway.domain.placeholders.runReportTemplate=
flyway.domain.placeholders.emailTemplate=
flyway.domain.placeholders.dms.host=
flyway.domain.placeholders.dms.port=
### flyway jndi connection details for shared services placeholder
entries ###
flyway.domain.placeholders.plato.jndi=jdbc/PLATO
flyway.domain.placeholders.plato-config.jndi=jdbc/PLATO
flyway.domain.placeholders.plato-sec.jndi=jdbc/PLATO SECURITY
```

flyway.domain.placeholders.plato-ui-config.jndi=jdbc/PLATO_UI_CONFIG

flyway.domain.placeholders.sms.jndi=jdbc/sms

flyway.domain.placeholders.cmncore.jndi=jdbc/CMNCORE

```
### flyway jndi connection details for obvam services placeholder entries
###
flyway.domain.placeholders.eie.jndi=jdbc/EIE
flyway.domain.placeholders.eie.server.port=
flyway.domain.placeholders.eie.schemas=
flyway.domain.placeholders.elm.jndi=jdbc/ELM
flyway.domain.placeholders.elm.server.port=
flyway.domain.placeholders.elm.schemas=
flyway.domain.placeholders.vam.jndi=jdbc/VAM
flyway.domain.placeholders.vam.server.port=
flyway.domain.placeholders.vam.schemas=
flyway.domain.placeholders.vac.jndi=jdbc/VAC
flyway.domain.placeholders.vac.server.port=
flyway.domain.placeholders.vac.schemas=
flyway.domain.placeholders.vab.jndi=jdbc/VAB
flyway.domain.placeholders.vab.server.port=
flyway.domain.placeholders.vab.schemas=
flyway.domain.placeholders.vae.jndi=jdbc/VAE
flyway.domain.placeholders.vae.server.port=
flyway.domain.placeholders.vae.schemas=
flyway.domain.placeholders.eda.jndi=jdbc/EDA
flyway.domain.placeholders.eda.server.port=
flyway.domain.placeholders.eda.schemas=
flyway.domain.placeholders.vai.jndi=jdbc/VAI
flyway.domain.placeholders.vai.server.port=
flyway.domain.placeholders.vai.schemas=
flyway.domain.placeholders.van.jndi=jdbc/VAN
flyway.domain.placeholders.van.server.port=
flyway.domain.placeholders.van.schemas=
flyway.domain.placeholders.vap.jndi=jdbc/VAP
flyway.domain.placeholders.vap.server.port=
flyway.domain.placeholders.vap.schemas=
flyway.domain.placeholders.vas.jndi=jdbc/VAS
flyway.domain.placeholders.vas.server.port=
flyway.domain.placeholders.vas.schemas=
flyway.domain.placeholders.vat.jndi=jdbc/VAT
flyway.domain.placeholders.vat.server.port=
flyway.domain.placeholders.vat.schemas=
flyway.domain.placeholders.vaj.server.port=
flyway.domain.placeholders.platoorch.domain.jndi=jdbc/PLATO-O
flyway.domain.placeholders.platoorch.domain.schemas=
flyway.domain.placeholders.plato.alerts.email.userId=
flyway.domain.placeholders.plato.alerts.email.password=
```

flyway.domain.placeholders.plato.alerts.cmc.userId= flyway.domain.placeholders.plato.alerts.cmc.branchCode= flyway.domain.placeholders.plato.alerts.cmc.appId= flyway.domain.placeholders.plato-rule.hostname= flyway.domain.placeholders.plato-rule-service.server.port= flyway.domain.placeholders.platorule.domain.jndi= flyway.domain.placeholders.platorule.domain.schemas= flyway.domain.placeholders.obrh.import.data.disable-modify= flyway.domain.placeholders.cmc-obrh-services.kafka.server.path= flyway.domain.placeholders.cmc-obrh-services.zookeeper.server.path= flyway.domain.placeholders.cmc.schemas= flyway.domain.placeholders.cmc-nlp-opennlp-services.server.port= flyway.domain.placeholders.cmc-nlp-maintenance-services.server.port= flyway.domain.placeholders.cmc-nlp-pipeline-services.server.port= flyway.domain.placeholders.cmc-nlp-docview-services.server.port= flyway.domain.placeholders.cmc-ml-indb-services.server.port= flyway.domain.placeholders.cmc-obrh-services.kafka.enabled= flyway.domain.placeholders.cmc-sla-services.server.port= flyway.domain.placeholders.cmc-obcbs-services.schemas= flyway.domain.placeholders.obcbs.server.port= flyway.domain.placeholders.orch.cmc.brn= flyway.domain.placeholders.orch.cmc.user= flyway.domain.placeholders.orch.enableDynamicAllocation= flyway.domain.placeholders.orch.enableSLA= flyway.domain.placeholders.report-service.server.port= flyway.domain.placeholders.report-service.hostname= flyway.domain.placeholders.report-service.domain.jndi=jdbc/ PLATOREPORT flyway.domain.placeholders.report-service.template-metadatadirectory= flyway.domain.placeholders.report-service.output-directory= flyway.domain.placeholders.report-service.fop-config-file=

generic entries for all services
spring.cloud.config.uri=
apigateway.url=
service.logging.environment=
service.logging.path=

Sample file for domain-config-deploy.env is given below:

```
### 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=
```



1.4 Method 4 – Workflow Configuration

This topic provides the systematic instructions to run Oracle Banking Microservices Architecture services through workflow configuration.

1. Create Metadata of the workflow.

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 REGIN2",
      "processRefNo":
    "${workflow.input.transactionModel.txnIdentification.processRefNo}",
       "processName": "Testing Process2",
      "processCode":
    "${workflow.input.transactionModel.txnIdentification.processName}",
      "transactionModel": "${workflow.input.transactionModel}",
       "stage": "TESTING2",
      "priority":
    "Ś
{workflow.input.transactionModel.transactionData.moduleData.taskPrioirty}"
      "applicationDate":
    "Ś
{workflow.input.transactionModel.txnIdentification.applicationDate}",
      "applicationNumber":
    "${workflow.input.transactionModel.txnIdentification.processRefNo}",
      "processRefNumber":
    "${workflow.input.transactionModel.txnIdentification.processRefNo}",
      "branch": "$
{workflow.input.transactionModel.txnIdentification.branchCode}",
      "user": "$
{workflow.input.transactionModel.txnIdentification.currentUser}",
       "customerNumber":
    "Ś
{workflow.input.transactionModel.transactionData.moduleData.customerId}",
      "amount":
    "Ś
{workflow.input.transactionModel.transactionData.moduleData.amount}",
       "currencyCode":
    "Ś
{workflow.input.transactionModel.transactionData.moduleData.currency}",
      "TASK OUTCOMES": [
       "PROCEED"
      ],
```

```
"moduleCode": "OBTFPM",
    "customFilter": [
    {
    "key": "contractRefNo",
    "label": "Back Office Reference"
    },
    {
    "key": "otherRefNo",
    "label": "External Reference"
    }
   ]
  },
  "type": "WAIT",
  "startDelay": 0,
  "optional": false,
  "asyncComplete": false
}
],
"outputParameters": {
"stage": "CLMO FA SNPOAR APPEN",
"taskOutcome": "PROCEED WITH PARTICIPANT"
},
"schemaVersion": 2,
"restartable": true,
"workflowStatusListenerEnabled": false
```

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

Figure 1-4 Body

}



For workflow creation, call the API (/api/workflow) to create the workflow. This API provides the information to the workflow metadata which is created using previous call.

```
{
    "name": "initialTest",
    "description": "initialTest",
```



```
"version": 4,
       "input": {
        "transactionModel": {
         "transactionData": {
         "moduleData": {
         "amount": 122,
         "currency": "GBP",
         "customerId": "001506",
         "customerName": "MARKS AND SPENCER",
         "taskPrioirty": "H"
     }
    },
         "txnIdentification": {
         "branchCode": "000",
         "currentStage": "TEST FA ILS REGTN2",
         "currentUser": "SWAGATIKA",
         "key1": "Desk",
         "moduleCode": "TRMO",
         "processName": "Testing Process2",
         "processRefNo": "300ILCI012260",
         "applicationDate": 1588582461960,
         "taskOutcome": "PROCEED",
         "taskPrioirty": "H"
      }
    }
  }
}
```

Pass the DSL in body. The below screen depicts the sample workflow:

Figure 1-5 Body

POST 🗸	http://whf00fpr:7009/plato-orch/api/workflow	Params	Send 💊	Save	\sim
Authorization	Headers (4) Body Pre-request Script Tests				Code
form-data	● x-www-form-urlencoded ● raw ● binary JSON (application/json) ∨				
1 - { 2 "n, 3 "d, 4 "vy 5 - "in 7 - 8 - 9 10 11 12 13 14 15 16 - 17 18 19 20 20 21	<pre>me": "initialTest1", ssriptichon": "Import LC Closure Workflow", region": 4, put": { "transactionData": { "rensactionData": { "anount": 122, "anount": 122, "currency": GGP, "customerIdm": GGPS, "customerIdm": "MMKS AND SPENCER", "customerId": "MKS AND SPENCER", "customerId": "GencerId", "customerId": "GencerId", "customerId": "GencerId", "customerIstage: "TEST_FAILS FAILS FAILS</pre>				
Body Cooki	es Headers (6) Test Results		Status: 200 OK	Time: 18727.	2 ms
Pretty Ra	w Preview Text Y 🚍		Ē Q	Save Respo	onse
1 151d78d	-6711-46ae-be15-bf7b550c4b36				



2 Domain Creation and Cluster Configuration

This topic provides the information about the domain creation instructions, cluster configuration, and post domain creation configurations.

- Create Domain and Cluster Configuration
 This topic provides the systematic instructions to create domain and cluster configuration.
- Post Domain Creation Configurations This topic provides the systematic instructions for the configurations to be performed once the domain is created.

2.1 Create Domain and Cluster Configuration

This topic provides the systematic instructions to create domain and cluster configuration.

Note:

Names need not to be same as provided in the screenshot.

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

The Create Domain screen displays.



Configuration Type			
Create Domain Implates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want to do?		Browse
	Create a new domain.		
Help		< <u>Back</u> <u>N</u> ext > Einis	h Cancel

Figure 2-1 Create Domain

4. Click Next.

The **Templates** screen displays.

Templates	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here Include all gelected templates Include all previously applied templates Available Templates Basic WebLogic Server Domain - 12.2.1.3.0 [wlserver] * Oracle Enterprise Manager - 12.2.1.3.0 [em] Oracle Enterprise Manager - 12.2.1.3.0 [em] Oracle Enterprise Manager - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service Basic - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service Basic - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service activation of the User Messaging Service Basic - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service 12.2.1.0 [oracle_common] Oracle User Messaging Service activation of the User Messaging Service Basic - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service Service for JAX-WS Extension - 12.2.1.3.0 [oracle_common] Oracle User Messaging Service Application - 12.2.1.3.0 [oracle_common] Oracle User Service Application - 12.2.1.3 [oracle_common] WebLogic Advanced Web Services for JAX-WS Extension - 12.2.1.3.0 [oracle_common] Methods: WebLogic Advanced Messaging Costom Template: Template location: D: Oracle Middleware \122Ps3\Oracle_home_new
Help	< <u>Back</u> <u>Mext</u> > <u>Finish</u> Cancel

Figure 2-2 Templates

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



The Administrator Account screen displays.

Administrator Account				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as or special character.	weblogic	n at least 8 alphanumeric characters wit	h at least one numbe
Help			< Back Next > Fini	sh Cancel

Figure 2-3 Administrator Account

6. Fill the fields **Password** and **Confirm Password** to set the password, and click **Next** to proceed.

The **Domain Mode and JDK** screen displays.



Domain Mode and JDK	
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.properties for username and password, and poll for applications to deploy. Production Require the entry of a username and password, and do not poll for applications to deploy. JDK Qrack HotSpot 1.8.0_171 C:\PROGRA~1\Java\JDK18~1.0_1 Other JDK Location: Browse

Figure 2-4 Domain Mode and JDK

- 7. Select Domain Mode as Production.
- 8. Select JDK, and click Next.

The Advanced Configuration screen displays.

Figure 2-5 Advanced Configuration





9. Select Administration Server and Topology, and click Next.

The Administration Server screen displays.

Administration Server				
Administration Server	Server Name Listen Address Listen Port Enable SSL SSL Listen Port	AdminServer All Local Addresses 7001	FUSION MIDDLEWARE	

Figure 2-6 Administration Server

10. Edit the fields **Listen Port** and host configurations as required, and click **Next**.

The Managed Servers screen displays.



	· 👍 Add 🗈 Clone	X Delete		9	Discard Changes
Templates					
Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen P
Domain Mode and JDK	Canfin Conver		7002		Die
Advanced Configuration	Conrig_Server	All Local Addresses	7003		Dis
Administration Server	Ani Cateway Server	All Local Addresses	7004		Disc
Managed Servers	Plato LIT Config Server	All Local Addresses	7005		Dis
Clusters	Plato Orch Server	All Local Addresses	7007		Dis
Courses Translation	Plato Feed Server	All Local Addresses	7008		Dis
Server Templates	Plato Batch Server	All Local Addresses	7009		Dis
Machines	Plato Alerts Management Se	All Local Addresses 🔻	7010		Dis
Partitions Configuration Summary Configuration Progress					
Partitions Configuration Summary Configuration Progress End Of Configuration					
Partitions Configuration Summary Configuration Progress End Of Configuration					

Figure 2-7 Managed Servers

- **11.** Click **Add** to add managed servers and edit the fields as required.
 - a. Specify the name in **Server Name** filed.
 - b. Edit the address in Listen Address filed.
 - c. Edit the port in Listen Port filed.
- 12. Click Next.

The **Cluster** screen displays.

Administrator Account	Cluster Name Config_Cluster	Cluster Address	Frontend Host	Eventor d LITTO Daut	
Domain Mode and JDK	Config Cluster		Troncond Trooc	Frontend HTTP Port	Frontend HTTPS Por
Advanced Configuration				0	
Advanced Connullation	Discovery_Cluster			0	
Administration Conver	Api_Gateway_Cluster			0	
Administration Server	Plato_UI_Config_Clust			0	
Managed Servers	Plato_Orch_Cluster			0	
Clusters	Plato_Feed_Cluster			0	
Server Templates	Plato_Batch_Cluster			0	
Dynamic Servers	Plato_Alerts_Managem			0	
<u>Machines</u> <u>Virtual Targets</u> Partitions					
Configuration Summary					
Configuration Summary Configuration Progress					

Figure 2-8 Cluster

 Click Add to add clusters one for each Managed Servers, and click Next. The Server Template screen displays.

Server Templates				
Create Domain Templates	Add X Delete			Discard Changes
Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
Administration Server Managed Servers				
Clusters Server Templates				
Assign Servers to Clusters Machines				
<u>Virtual Targets</u> Partitions				
Configuration Summary Configuration Progress				
End Of Configuration				
Help			< Back Next >	Einish Cancel

Figure 2-9 Server Template

14. Skip the Server Templates and Dynamic Servers, and click Next.

The Assign Servers to Clusters screen displays.







15. Assign clusters with servers, and click **Next**.

The **Machines** screen displays.

areace portant			
Templates	Machine Unix Machine		
Administrator Account	👍 Add 🛛 💥 Delete		Discard Changes
Domain Mode and JDK	Name	Node Manager Listen Address	Node Manager Listen Port
Advanced Configuration	new Machine 1		S
Administration Server			
Node Manager			
Managed Servers			
<u>Clusters</u>			
Server Templates			
Dynamic Servers			
Assign Servers to Clusters			
Machines			
Assign Servers to Machines			
Virtual Targets			
Partitions			
Partitions Configuration Summary			
Partitions Configuration Summary Configuration Progress	* *		

Figure 2-11 Machines

- **16.** Click **Add** to add **Machine** or **Unix Machine** based on the operating system and configure **Name**, **Node Manager Listen Address**, and **Node Manager Listen Port** as required.
- 17. Click Next.

The Assign Servers to Machines screen displays.



Create Domain	Servers	Machines
Administrator Account Domain Mode and JDK Advanced Configuration Administration Server Managed Servers Clusters Server Templates Dynamic Servers		Machine Machine AdminServer AdminServer Config_Server Discovery_Server Plato_Alerts_Management_Server Plato_Batch_Server Plato_Feed_Server Plato_Orch_Server Plato_UI_Config_Server Plato_UI_Config_Server
Assign Servers to Clusters Machines		
Assign Servers to Machines		
Virtual Targets		
Partitions		
Configuration Summary		
Configuration Progress	* *	
End Of Configuration	Select one or more servers in the left pane and one mach to assign the server or servers to the machine.	ine in the right pane. Then use the right arrow buttor

Figure 2-12 Assign Servers to Machines

18. Map all the managed servers under the machine created, and click **Next**.

The Virtual Targets screen displays.

Figure 2-13 Virtual Targets

Virtual Targets						
T Create Domain	Add 🗶 ⊵	elete			Dis <u>c</u> ard	Changes
Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK						
Advanced Configuration						
Administration Server						
Managed Servers						
<u> <u> <u> </u> <u> Clusters</u> </u> </u>						
Server Templates						
Dynamic Servers						
Assign Servers to Clusters						
Machines						
Virtual Targets						
Partitions						
Configuration Summary						
Configuration Progress						
└ End Of Configuration						
Help			<	Back Next >	Einish	Cancel

19. Skip or configure Virtual Targets, and click Next.



The **Partitions** screen displays.

Partitions		
Templates	elete 🦳	Discard Changes
Administrator Account	Name	
Domain Mode and JDK		
Advanced Configuration		
Administration Server		
Managed Servers		
Clusters		
Server Templates		
Dynamic Servers		
Assign Servers to Clusters		
<u><u><u></u> Machines</u></u>		
<u>Assign Servers to Machines</u>		
Virtual Targets		
Partitions		
Configuration Summary		
End Of Configuration		
Help	< Back Next > Finis	h Cancel

Figure 2-14 Partitions

20. Skip or configure **Partitions**, and click **Next**.

The Configuration Summary screen displays.



Configuration Summary			FUSIC			
Create Domain	View: Deployment	•	Name	Basic WebLo	ogic Server D	omain
Templates	൙ platoinfra_domain (C:\Users\ags\Documents\	Oracle\Mid	Description	Create a ba	sic WebLogic	Server domain
Administrator Account	🖃 🗁 Server		Location	Charle Corp	of action 1	\Oracle\Middlev
Domain Mode and JDK	Config_Server					
Advanced Configuration	Api_Gateway_Server					
Administration Server	Plato_UI_Config_Server					
Managed Servers	Plato_Feed_Server					
Clusters	Plato_Batch_Server					
Server Templates	Plato_Alerts_Management_Server AdminServer	100				
Dynamic Servers	AdminServer	- 26				
Assign Servers to Clusters	🖃 🗁 Cluster					
Assign bervers to clusters	Config_Cluster					
<u>Machines</u>	Discovery_Cluster					
Assign Servers to Machines	Api_Gateway_Cluster					
Virtual Targets	Plato_UI_Config_Cluster					
	Plato_Orch_Cluster					
Partitions	Plato_Feed_Cluster					
Configuration Summary	D Plate Alerts Management Cluster	_				
Configuration Progress	Praco_Alerts_Management_Cluster	•	•	3000		
E LOSO STATE	Select Create to accept the above options and s	tart creating	and configuring	i a new domain	. To change	the above
C End OF Configuration	configuration before starting Domain Creation, go using the Back button.	back to the	relevant page t	by selecting its	name in the	eft pane, or by
Help			< <u>B</u> ack	Next >	Create	Cancel

Figure 2-15 Configuration Summary

- **21.** Check the **Configuration Summary** and confirm creating the domain.
- 22. Click Next.

The **Configuration Progress** screen displays.

Figure 2-16 Configuration Progress

Configuration Progress				
Create Domain				
Templates		100%		1
Administrator Account	Copy Unprocessed Artifa	acts		
Domain Mode and JDK	Security Processing			
Advanced Configuration	Artifacts Generation			
Administration Conver	Post Processing			
Administration Server				
Managed Servers				
Ú Clusters				
Server Templates				
Upnamic Servers				
Assign Servers to Clusters				
V Machines				
Assign Servers to Machines				
Virtual Targets				
↓ ↓ Partitions				
Configuration Summary				
Configuration Progress				
End Of Configuration				
Help			< Back Next > E	nish Cancel



23. Check the Configuration Progress screen, and click Next.

The End of Configuration screen displays.

E	End Of Configuration			
X	Create Domain			
*	Templates	Oracle Weblogic Server Configuration Succeeded New Domain platoinfra domain Creation Succeeded		
4	Administrator Account	Domain Location		
4	Domain Mode and JDK	Admin Server URL		
*	Advanced Configuration			
Y	Administration Server			
Ý	Managed Servers			
Y	Clusters			
Y	Server Templates			
Y	Dynamic Servers			
Y	Assign Servers to Clusters			
Y	Machines			
Ý	Assign Servers to Machines			
Ý	Virtual Targets			
Ý	Partitions			
Ý	Configuration Summary			
Ý	Configuration Progress			
	End Of Configuration			
Ē	Help	<	Back Next > Fir	iish Cancel

Figure 2-17 End of Configuration

24. Click Finish to complete the procedure.

The configuration is completed successfully.

2.2 Post Domain Creation Configurations

This topic provides the systematic instructions for the configurations to be performed once the domain is created.

Note:

Once domain creation and cluster configuration is done, refer to Oracle Fusion Middleware documents for more details on how to start an 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. Run .sh if operating system is linux.
- 4. Open/user_projects/domains/platoinfra_domain/bin.



- 5. Run setNMJavaHome.cmd. Run .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:Under Machine, select platoinfra_Machine.
 - a. Machine
 - b. platoinfra_Machine
 - c. Node Manager
 - d. Type
 - e. Plain
 - f. Save
- 9. Open /user_projects/domains/platoinfra_domain/bin.
- 10. Run startNodeManager.cmd. Run .sh if operating system is linux.
- **11**. Start all managed servers.
- **12.** Access the Oracle WebLogic Administration Console.
- 13. From Domain Structure, Click Services and verify the Servers (Filtered More Coloumns Exist) table.

The Summary of Services screen displays.

Lock & Edit Release Configuration		A set	ver is an instance of WebLogic Server th	at runs in its own :	ava Virtual Machine (JVM) and has its own	configuration.			
Domain Structure		This	nage summarizes each server that has b	een configured in t	he current Webl ogic Server domain.				
atoinfra_domain	^			con configured in t	the carrent message benes domain				
Domain Partitions		<u>ç</u> 5							
Servers Clusters Coherence Clusters		Cus Serv	tomize this table ers (Filtered - More Columns Exist)						
Resource Group Templates		Click	the Lock & Edit button in the Change O	Center to activate a	Il the buttons on this page.				
Machines Virtual Hosts		Ne	v Clone Delete					Showing 1 to 9 of	f 9 Previous N
Work Managers			Name 🗠	Туре	Cluster	Machine	State	Health	Listen Port
Resource Management	~		AdminServer(admin)	Configured		platoinfra_Machine	RUNNING	🗸 ок	7001
Resource Management	-		AdminServer(admin) Api_Gateway_Server	Configured Configured	Apl_Gateway_Cluster	platoinfra_Machine	RUNNING SHUTDOWN	✓ OK Not reachable	7001 7005
Concurrent Templates Presource Management	-		AdminServer(admin) Apl_Gateway_Server Config_Server	Configured Configured Configured	Apl_Gateway_Cluster Config_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN	OK Not reachable Not reachable	7001 7005 7003
Concurrent remplates Resource Management	-		AdminServer(admin) Apl_Gateway_Server Config_Server Discovery_Server	Configured Configured Configured Configured	Apl_Gateway_Cluster Config_Cluster Discovery_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	OK Not reachable Not reachable Not reachable	7001 7005 7003 7004
Croncurrent Templates How do L Create Managed Servers Clone servers Detete Managed Servers	-		AdminServer(admin) ApL_Gateway_Server Config_Server Discovery_Server Plato_Alerts_Management_Server	Configured Configured Configured Configured Configured	Apl_Gateway_Cluster Config_Cluster Discovery_Cluster Plato_Alerts_Management_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	OK Not reachable Not reachable Not reachable Not reachable Not reachable	7001 7005 7003 7004 7010
Concurrent templates Concurrent templates Concurrent Concurrent	•		AdminServer(admin) ApL_Gateway_Server Config_Server Discovery_Server Plato_Alerts_Management_Server Plato_Batch_Server	Configured Configured Configured Configured Configured Configured	Apl_Gateway_Cluster Config_Cluster Discovery_Cluster Plato_Netrs_Management_Cluster Plato_Bato_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	OK Not reachable Not reachable Not reachable Not reachable Not reachable Not reachable	7001 7005 7003 7004 7010 7009
Croater Managed Servers Create Managed Servers Create Managed Servers Orace servers Delete Managed Servers Delete Managed Servers Start and stop servers			AdminServer(admin) ApL_Gateway_Server Config_Server Discovery_Server Plato_Alerts_Management_Server Plato_Batch_Server Plato_Feed_Server	Configured Configured Configured Configured Configured Configured	Api_Gateway_Cluster Config_Cluster Discovery_Cluster Plato_Alerts_Management_Cluster Plato_facth_Cluster Plato_feed_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	OK Not reachable	7001 7005 7003 7004 7010 7009 7008
Concurrent lemplates Brownow Managed Servers Conste Managed Servers Delete Managed Servers Delete the Administration Server Sant and stop servers View objects in the 3NDI tree			Administerver(admin) Apl_dateway_Server Config_Server Discovery_Server Plato_Alerts_Management_Server Plato_Alects_Nerver Plato_Foed_Server Plato_Cock_Server	Configured Configured Configured Configured Configured Configured Configured	ApL,Gateway,Quster Config_Cluster Discovery_Cluster Plato_Alerts_Management_Cluster Plato_Batch_Cluster Plato_Freed_Cluster Plato_Crick_Cluster	platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine platoinfra_Machine	RUNNING SHUTDOWN SHUTDOWN	OK Not reachable Not reachable	7001 7005 7003 7004 7010 7009 7008 7007

Figure 2-18 Summary of Services

Click Clusters and verify the Clusters (Filtered - More Coloumns Exist) table.
 The Summary of Clusters screen displays.



			<u> </u>					OTTR
Home >Summary of Deployments >Summary of Servers >Summary of Clusters								
Sumn	Summary of Clusters							
Th	is name summarizes the clusters that I	have been configure	d in the current Webl onic Sen	er domain				
	is page summarizes the clusters that	nuve been comigure	a in the current webbogic serv	domain.				
Ac	luster defines groups of WebLogic Se	erver servers that wo	rk together to increase scalabi	lity and reliability.				
D Cu	istomize this table							
Clu	sters (Filtered - More Columns E)	cist)						
Clic	k the <i>Lock & Edit</i> button in the Char	nge Center to activat	e all the buttons on this page.					
Ne	ew v Clone Delete					Sho	wing 1 to 8 of 8 Previous Ne	ext
	Name 🗠	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channe	1
	Api_Gateway_Cluster		Unicast	Database	Round Robin	(None)		
	Config Cluster		Unicast	Database	Round Robin	(None)		+
	comg_causes		Unicase	-		(None)		+
	Discovery_Cluster		Unicast	Database	Round Robin	(None)		_
	Plato_Alerts_Management_Cluster		Unicast	Database	Round Robin	(None)		
	Plato_Batch_Cluster		Unicast	Database	Round Robin	(None)		
	Plato_Feed_Cluster		Unicast	Database	Round Robin	(None)		
	Plato Orch Cluster		Unicast	Database	Round Robin	(None)		1
				0.1.1	0	(-
	Mato_UI_Config_Cluster		Unicast	Database	Kouna Kobin	(None)		
	Final Summer	Summary of Clusters Summary of Clusters This page summarizes the clusters that A cluster defines groups of WebLogic Se Clusters (Filtered - More Columns ED Cluster (Filtered - More Columns ED Cluster (Filtered - More Columns ED Cluster Plato, Daters, Management, Cluster Plato, Columns Plato, Cluster Plato, Cl	Summary of Clusters Summary of Deportment / Summary of Servers / Summary A cluster defines groups of WebLogic Server servers that wo Clusters (Filtered - More Columns Exist) Cluster Address Apl_Catevory_Cluster Config_Cluster Plato_Netrs_Management_Cluster Plato_Coct_Cluster Plato_Cluster Plato_Cluster Plato_Coct_Cluster Plato_Cluster Plato_Coct_Cluster Plato_Cluster Plato_Coct_Cluster Plato_Coct_Cluster Plato_Coct_Cluster Plato_Coct_Cluster Plato_Coct_Cluster Plato_Cluster Plato_Cluster Plato_Coct_Cluster Plato_Cluster Plato	Summary of Clusters Summary of Clusters Summary of Clusters Summary of Clusters This page summarizes the clusters that have been configured in the current WebLogic Sen A cluster defines groups of WebLogic Server servers that work together to increase scalable Clusters (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center to activate all the buttons on this page. New Core Debte Name & Cluster Address Cluster Messaging Mode ApLCateway, Cluster Unicast Descovery, Cluster Unicast Pato_batch_Cluster Unicast Pato_batch_Cluster Unicast Pato_Cord_Cluster Unicast Pato_Cord_Cluster Unicast Pato_Ord_Cluster Unicast Pato_Ord_Ord_Ord_Cluster Unicast Pato_Ord_Cluster Unicast Pato_Ord_Ord_Ord_Ord_Ord_Ord_Ord_Ord_Ord_Ord	Summary of Clusters Summary of Clusters Summary of Clusters This page summarizes the clusters that have been configured in the current WebLogic Server domain. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability. Clusters (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center to activate all the buttons on this page. New Core Delite Name & Cluster Address Cluster Messaging Mode Migration Basis Apl.Catevery.Cluster Unicast Detabasee Descovery.Cluster Unicast Detabasee Plato_Alerts_Maragement_Cluster Unicast Detabasee Plato_Corte_Cluster Unicast Detabasee Plato_Cluster Plato_Pl	Summary of Clusters Summary of Clusters This page summarizes the clusters that have been configured in the current WebLogic Server domain. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers that work together to increase scalability and reliability. Image: Server servers servers that work together to increase scalability and reliability. Image: Server servers servers that work together to increase scalability and reliability. Image: Server servers servers servers servers that work together to increase servers that work together to increase servers the servers ser	Nummary of Deportment / Summary of Lasters Summary of Clusters This page summarizes the clusters that work together to increase scalability and reliability. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability. Clusters (Filtered - More Columns Exist) Clusters (Filtered - More Columns Exist) Cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability. Mere: Cluster filtered - More Columns Exist) Cluster Cluster Messaging Mode Mage: Cluster & Cluster Address Cluster Cluster Address Cluster Cluster Cluster Messaging Mode Migration Basis Default Load Algorithm Replication Type Cluster Unicost Database Round Robin Otherse: Discovery.Cluster Unicost Database Round Robin Plate_Adard_Cluster Unicost Database <	Summary of Clusters Summary of Clusters This page summarizes the clusters that have been configured in the current WebLogic Sever domain. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability. Image: Summary of Clusters Cluster this table Clusters (Filtered - More Columns Exist) Cluster (Filtered - More Columns Exist) Cluster (Filtered - More Columns Exist) Cluster (Grittered - More Columns Exist) Cluster (Filtered - More Columns Exist) Cluster (Grittered - More Columns Exist) Cluster (Filtered - More Columns Exist) Cluster Address Cluster Messaging Mode Name & Cluster Address Cluster Address Cluster Messaging Mode Mane & Cluster Address Config. Cluster Unicast Config. Cluster Unicast Database Round Robin Oring. Cluster Unicast Database Round Robin Mone = Unicast Database Round Robin Mone = Unicast Database Pado_Aderts_Management_Cluster Unicast Database

Figure 2-19 Summary of Clusters

15. Click **Machines** and verify the **Machines (Filtered - More Coloumns Exist)** table.

The **Summary of Machines** screen displays.

Figure 2-20 Summary of Machines

Change Center	The Home Log Out Preferences Marker Record Help	Welcome, weblogic Connected to: platoinfra_dom
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines	
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Machines	
Lock & Edit Release Configuration	A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic S server in a cluster to which certain tasks, such as HTIP session replication, are delegated. The Administration Server uses the ma remote servers.	erver uses configured machine names to determine the optimum achine definition in conjunction with Node Manager to start
Domain Structure	This page displays key information about each machine that has been configured in the current WebLogic Server domain.	
platoinfra_domain		
Domain Partitions Environment	Customize this table	
Servers	Machines	
Coherence Clusters	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.	
Resource Groups Resource Group Templates	New Clone Delete	Showing 1 to 1 of 1 Previous Next
Machines		
	Name 🔅	Туре
Work Managers	platoinfra_Machine	Machine
Concurrent Templates	New Clone Delete	Showing 1 to 1 of 1 Previous Next
u		



3 Datasource Creation

This topic provides the systematic instruction to create datasource.

Create Datasource

3.1 Create Datasource

Specify **User ID** and **Password** to login to **Oracle WebLogic Administration Console**. Perform the following steps to create data source:

1. Start AdminServer and Node Manager.

Note:

Make sure that all the managed servers (targets) are in running mode.

- 2. On Domain Structure, click Services. Under Services, click Data Sources.
- 3. On the Data Sources (Filtered More Columns Exist) table, click New and select Generic Data Source from drop-down list.

The Summary of JDBC Data Sources screen displays.

Figure 3-1 Summary of JDBC Data Source

View changes and restarts	Home >Summary o	f Deployments >Sur	mmary of Servers >Sum	mary of JDBC Data Sources			
No pending changes exist. Click the Release	Summary of JDBC	Data Sources					
domain.	Configuration	Monitoring					
Lock & Edit							
Release Configuration	A JDBC data sou database connec	rce is an object bo tion from a data s	und to the JNDI tree t ource.	hat provides database connectivity	through a pool of JDBC connections. Applica	tions can look up a data s	ource on tH
Domain Structure	This page summ	arizes the JDBC da	ta source objects that	have been created in this domain.			
platoinfra_domain							
Domain Partitions							
Environment	Customize this	table					
Deployments	Data Causa (the set Maria C	-luma Fuist)				
🕀 - Services	Data Sources (r	illered - Piore C	olumnis Exist)				
E-Messaging	New - Delet	le					
Data Sources							
Persistent Stores	Generic Data So	ource		Туре	JNDI Name		Targets
Foreign JNDI Providers	GridLink Data S	ource					
Work Contexts	There are no items to display						
XML Registries	u Hulu Data Soul						
XML Entity Caches	Proxy Data Sou	rce					
jCOM	LICP Data Source	ca					
Mail Sessions		<u>~</u>					

 Specify the Name and JNDI Name on Create a New JDBC Data Source and click Next. The Create a New JDBC Data Source screen displays.



reate a New JDBC Data Source	2
Back Next Finish Can	cel
JDBC Data Source Properties	
The following properties will be a Indicates required fields	used to identify your new JDBC data source.
What would you like to name you	r new JDBC data source?
街 * Name:	PLATO
What scope do you want to create	e your data source in ?
Scope:	Global •
What JNDI name would you like t	o assign to your new JDBC Data Source?
jdbc/PLATO	
What database type would you lik	e to select?
Database Type:	Oracle •
Back Next Finish Can	cel

Figure 3-2 Create a New JDBC Data Source

5. On Database Driver, select Thin for Service Connections (Instant) from dropdown list and click Next.

The Create a New JDBC Data Source - Database Driver screen displays.

Figure 3-3 Create a New JDBC Data Source - Database Driver

Create a New JDBC Data	Source
Back Next Finish	Cancel
JDBC Data Source Prop	perties
The following properties v	vill be used to identify your new JDBC data source.
Database Type:	Oracle
What database driver woul	d 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

6. Uncheck the Supports Global Transactions and click Next.

The Create a New JDBC Data Source - Transaction Options screen displays.



eate a New JDBC Data Source	
Back Next Finish Cance	
Transaction Options	
You have selected non-XA JDBC d	iver to create database connection in your new data source.
Does this data source support globa	I transactions? If yes, please choose the transaction protocol for this data source.
Supports Global Transaction	s
elect this option if you want to ena Emulate Two-Phase Commit.	ble non-XA JDBC connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction o
Logging Last Resource	
elect this option if you want to ena conditions.	ble non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your a
Emulate Two-Phase Commit	
elect this option if you want to ena an participate in the global transac	ble non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing.
One-Phase Commit	

Figure 3-4 Create a New JDBC Data Source - Transaction Options

7. Specify the required fields on **Connection Properties**.

The Create a New JDBC Data Source - Connection Properties screen displays.

Figure 3-5 Create a New JDBC Data Source - Connection Properties

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.	Define Connection Properties.							
What is the name of the database you would like to com	nect 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	t to the database?							
Port:								
What database account user name do you want to use t	o 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:								

8. Click **Next** to test connection.

The Connection test succeeded message displays.



Figure 3-6 Connection test succeeded - Message

Home >Summary of Deployments >Su	mmary of Servers >Summary of IDBC Data Sources					
Messages	,					
Connection test succeeded.						
Create a New JDBC Data Source						
Test Configuration Back Nex	Test Configuration Back Next Finish Cancel					
Test Database Connection						
Test the database availability and	Test the database availability and the connection properties you provided.					
What is the full package name of JD	BC 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:	oracle.jdbc.OracleDriver					
	· · · · · · · · · · · · · · · · · · ·					

9. Select the target **Servers** and **Clusters** to deploy the data source and click **Next**.

platoinrra_domain	Servers	
Domain Partitions		
Environment	AdminServer	
Servers		1
₽-Clusters		
Coherence Clusters	Clusters	
Resource Groups		
Resource Group Templates	Api Gateway Cluster	
Machines	All servers in the cluster	
	Part of the cluster	
Virtual Targets	Ani Gateway Secure	
Work Managers	- Api_Gateway_Server	
Concurrent Templates		
-Resource Management	Config_Cluster	
	○ All servers in the cluster	
How do I	Part of the cluster	
	Config Server	
Create JDBC generic data sources		
Create LLB, enabled 1DBC, data courses		
Create ELK-enabled 3DDC data sources	Discovery_Cluster	
	○ All servers in the cluster	
System Status	Part of the cluster	
	✓ Discovery_Server	
Health of Running Servers as of 6:15 PM		
Collect (0)	Dista Alexte Menseement Churter	
Palleu (0)	All services in the shutter	
Critical (0)	O All servers in the cluster	
Overloaded (0)	Part of the cluster	
Warning (0)	Plato_Alerts_Management_Server	
OK (1)		
(-)	Plato Batch Cluster	
	All servers in the cluster	
	Days of the cluster	
	Part of the cluster	
	- Piato_batch_berver	
	✓ Plato_Feed_Cluster	
	All servers in the cluster	
	Part of the cluster	
Microsoft Edge	✓ Plato Feed Server	
Microsoft Edge	✓ Plato_Feed_Server	I

Figure 3-7 Servers and Clusters

- **10.** Go to **Summary of JDBC Data Sources**.
- **11.** On the **Data Sources (Filtered More Columns Exist)** table, verify the **JNDI Name** and **Targets**.

Figure 3-8 Summary of JDBC Data Source - Configuration

ummary of JD	SC Data So	irces		
Configuration	Monitorin	3		
A JDBC data s then borrow a This page sun Customize th	ource is an o database co marizes the : is table	bject bound to the nnection from a d JDBC data source	e JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and ata source. objects that have been created in this domain.	
New v De	ete		Showing 1 to 1 of 1 Previous Next	
Name 4	Туре	JNDI Name	Targets	
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				



12. On the **Change Center**, click **Activate Changes** once the details are confirmed. All the changes are activated.

Figure 3-9 Change Center

Change Center	🏦 Home Log Out Preferences 🔛 Record Help				
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Summary of JDBC Data Sources				
Pending changes exist. They must be activated to take effect.	Summary of JDBC Data Sources				
Activate Changes	Configuration Monitoring				
Undo All Changes	A JDBC data source is an object bound to the JNDI tree that provides database connectiv				
Domain Structure	database connection from a data source.				
platoinfra_domain	This page summarizes the JDBC data source objects that have been created in this doma				



Change Center	1	Home Log O	It Preferen	ces 🚵 Record	Help Welcome, weblogic Connected to: platoinfra_domain						
View changes and restarts	H	ome >Summary	of Deployme	nts >Summary of 9	f Servers >Summary of Clusters >Summary of Machines >Summary of JDBC Data Sources						
Click the Lock & Edit button to modify, add or delete items in this domain.	Mes	essages # All changes have been activated. No restarts are necessary.									
Lock & Edit	Sun	amary of JDBC Data Sources									
Release Configuration		onfiguration	Monitoring								
	. ~	myaration	Piorittoring								
Domain Structure											
Coherence Clusters	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 on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection from a data source on the JNDI tree and then borrow a database connection for the JNDI tree and then borrow a database connection for the JNDI tree and then borrow a database connection for the JNDI tree and										
Deployments		Name Dala			Charles 1 to 1 of 1. Destand Net						
- Jervices		Dele	e		Showing Lto To LT Previous Next						
Data Sources	J	Name 🔿	Туре	JNDI Name	Targets						
How do I		PLATO	Generic	jdbc/PLATO	Apl_Gateway_Server, Config_Server, Discovery_Server, Plato_Alerts_Management_Server, Plato_Batch_Server, Plato_Feed_Server,						
Create JDBC generic data sources		New v Dele	e		Showing 1 to 1 of 1 Previous Next						
Create JDBC GridLink data sources											
- Counter 1000 and it data annual	_										



4 Deploy Application

This topic provides the systematic instructions to deploy the application.

Deploy Application

4.1 Deploy Application

Specify User ID and Password to login to Oracle WebLogic Administration Console.

The steps for deploying archives as an application in WebLogic are the same for all of the above except the managed server and the domain, where we deploy differs.

- 1. Navigate to left menu and click **Domain Structure**.
- 2. On Domain Structure, click Deployments.

The Summary of Deployments screen displays.

Figure 4-1 Summary of Deployments

iew changes and restarts	Home >Summary	of Deploym	ients							
pending changes exist. Click the Release	Summary of Deployments									
onfiguration button to allow others to edit the omain.	Configuration	Control I	Monitoring							
Lock & Edit Release Configuration	This page displa	iys the list of	Java EE applic	ations and standalon	e application mo	dules installed to this	domain.			
omain Structure	You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then I									
toinfra_domain	To install a new	To install a new application or module for deployment to targets in this domain, click Install.								
Domain Partitions Environment Deployments	₽ Customize this table									
Services	Deployments									
Interoperability	Install Update Delete									
Diagnostics	🔲 Name 🐟		State	Health	Туре	Targets	Scope	Domain Partitions		
		There are no items to display								
	Install Update Delete									

- 3. On the Change Center, click Lock and Edit.
- 4. On the Deployments table, click Install.

The Install Application Assistant screen displays.

Figure 4-2 Install Application Assistant

View changes and restarts	Home >Summary of Deployments	· · · · · · · · · · · · · · · · · · ·					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant Back Next Finish Cancel						
Release Configuration	Locate deployment to install and prepare for deployment Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path directory or file in the Path file.						
platoinfra_domain	Note: Only valid file paths are displa	yed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the required deployment descripton					
Domain Partitions Demain Partitions	Path: Recently Used Paths: Current Location:	DA (none) localhost \D:					



5. Click Upload your file(s) to select archive. On Delpoyment Archive, select Choose File.

Figure 4-3 Install Application Assistant

No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Install Application Assistant Back Next Finish Cancel Upload a deployment to the Administration	Server
Domain Structure	Click the Browse button below to select an applicat Administration Server.	tion or module on the machine from which you are currently browsing. When you have located t
platoinfra_domain B-Domain Partitions B-Environment	Deployment Archive:	Choose File No file chosen
Deployments BServices Security Realms DInteroperability	Upload a deployment plan (this step is option A deployment plan is a configuration which can sup now. This deployment plan archive will be a directo	nal) pplement the descriptors included in the deployment archive. A deployment will work without a + ory of configuration information packaged as a .jar file. See related links for additional informatic
C Diagnosocs	Deployment Plan Archive:	Choose File No file chosen
	Back Next Finish Cancel	

6. Once the Archive is uploaded, click **Next**.

The file is uploaded successfully.

Figure 4-4 File Upload - Success Message

Change Center	A Home Log Out Preferences	Record Help	Q	Welcome, weblogic	Connected to: platoinfra_domain						
View changes and restarts	Home >Summary of Deployments	ome >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of DDBC Data Sources >Summary of Deployments									
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	The file plato-discovery-serv \AdminServer\upload	When the plato-discovery-service 5.1.0.war has been uploaded successfully to C\Users\age\Documents\Oracle\Middleware\Oracle_Home\user_projects\domains\platoinfra_domain\servers \u00e4dminServer\upload									
Lock & Edit	Install Application Assistant										
Release Configuration	Back Next Finish Can	cel									
Domain Structure platoinfra_domain	Locate deployment to insta	ll and prepare for dep	ployment								
Environment	Select the file path that represe the application directory or file	ints the application root in the Path field.	directory, archive file, exploded archive	directory, or application module descriptor that you want to install.	You can also enter the path of						
ServersClusters	Note: Only valid file paths are	displayed below. If you	cannot find your deployment files, Uploa	d your file(s) and/or confirm that your application contains the req	uired deployment descriptors.						
Coherence Clusters	Path:	C:\Users\ags\Do	ocuments\Oracle\Middleware\Orac	:le_Home\user_projects\domains\platoinfra_domain\se	vers\AdminServer\uploa						
Resource Group Templates	Recently Used Paths:	(none)									
	Current Location:	Current Location: localhost C: \Users \ ags \ Documents \ Oracle \ Middleware \ Oracle_Home \ user_projects \ domains \ platoifira_domain \ servers \ AdminServer \ upload \ plato-discovery-service 5.1.0.war \ app									
Virtual Targets Work Managers	Into-discovery-set	vice-5.1.0.war									
Concurrent Templates	Back Next Finish Can	cel									
How do T											

- 7. Click Next.
- 8. Select Install this deployment as an application and click Next.

Figure 4-5 Install Application Assistant

Configuration editing is enabled. Future	Install Application Assistant							
changes will automatically be activated as you modify, add or delete items in this domain.	Back Next Finish Cancel							
Domain Structure	Choose installation type and scope							
temp_domain Domain Partitions	Select if the deployment should be installed as an application or library. Also decide the scope of this deployment.							
Environment Deployments	The application and its components will be targeted to the same locations. This is the most common usage.							
-Services Security Realms	Install this deployment as an application							
Interoperability Diagnostics	Application libraries are deployments that are available	ilable for other deployments to share. Libraries should be available on all of the targets running their referencing applicat						
- Diagnosico	◯ Install this deployment as a library							
	Select a scope in which you want to install the deployment.							
	Scope:	Global 🗸						
How do I	Back Next Finish Cancel							

9. Select the target **Servers** and **Clusters** to deploy.



Domain Structure	Aurilable terrete for allele discourse and a F.4.0.
platoinfra_domain	Available targets for plato-discovery-service-5.1.0 :
Domain Partitions	
E-Environment	Servers
Servers	
■ Clusters	AdminServer
Coherence Clusters	
***Resource Groups	
***Resource Group Templates	Clusters
Machines	
····Virtual Hosts	Api_Gateway_Cluster
····Virtual Targets	O All servers in the cluster
····Work Managers	O Part of the cluster
Concurrent Templates	Api_Gateway_Server
Resource Management	
How do I • Start and stop a deployed enterprise application	Config_Cluster All servers in the cluster Part of the cluster
Configure an enterprise application	
Create a deployment plan	Discovery_Cluster
Target an enterprise application to a server instance	All servers in the cluster Part of the cluster
Test the modules in an enterprise application	└─ Discovery_Server
	Plato Alerts Management Cluster
System Status	All conversion the cluster
Health of Running Servers as of 6:34 PM	Part of the cluster
Failed (0)	Plato_Alerts_Management_Server

Figure 4-6 Available targets

10. Click Next.

Figure 4-7 Install Application Assistant

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: platoinfra_domain
Manual and an end of the state	Home >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of JDBC Data Sou	rces >Summary of Deployments
View changes and restarts		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Install Application Assistant Back Next Finish Cancel	
Lock & Edit Release Configuration	Optional Settings You can modify these settings or accert the defaults.	
Description of the state of the	* Indicates required fields	
Domain Structure	Indicates required rields	
Domain Partitions Environment	- General	
Servers ClustersCoherence ClustersCoherence ClustersCoherence Clusters	* Name: plato-discovery-service-5.1.0	
Resource Groups Resource Group Templates	- Security	
Virtual Hosts	What security model do you want to use with this application?	
Work Managers	DD Only: Use only roles and policies that are defined in the deployment descriptors.	
Resource Management	Custom Roles: Use roles that are defined in the Administration Console; use policies that a	he deployment descriptor.
How do I	○ Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.	
 Start and stop a deployed enterprise application 	○ Advanced: Use a custom model that you have configured on the realm's configuration page.	
Configure an enterprise application	- Source Accessibility	
Create a deployment plan	How should the source files be made accessible?	
Target an enterprise application to a server instance	Use the defaults defined by the deployment's targets	

11. Click Finish.

The deployment is successfully completed.

Figure 4-8 Deployment - Success Message

Change Center	Home Log O	ut Preferences 🔛	Record Help	<u>.</u>				Welcon	ne, weblogic Conne	cted to: platoinfra_dom		
View changes and restarts	Home >Summary	ome >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of JDBC Data Sources >Summary of Deployments										
Pending changes exist. They must be activated to take effect.	Messages The deploym You must als	sages ₱ The deployment has been successfully installed. ₱ Your must also activate the pending changes to commit this, and other updates, to the active system.										
Undo All Changes	Summary of Dep	mmary of Deployments										
Domain Structure	Configuration	Control Monitor	ng									
Converse Coolserve Coolserve	This page displays the list of Java EE applications and standalone application modules installed to this domain. You can update (redeplay) 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.											
	Install Upda	Delete							Showing 1 to	1 of 1 Previous Next		
Deployments	🔲 Name 🔿			State	Health	Туре	Targets	Scope	Domain Partition	Deployment Order		
How do I	🗌 🗉 🐻 plat	Belato-discovery-service-5.1.0 distribute distribute Application Discovery_Server Global 100										
Configure an enterprise application	Install Upda	Install Update Delete Showing 1 to 1 of 1 Previous Next										
Update (redeploy) an enterprise application												



12. On Change Center, click Activate Changes.

All the changes are activated.

Change Center		🖻 Home Log Out Preferences 🖾 Record Help											
View changes and restarts	F	Home >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of JOBC Data Sources >Summary of Deployments											
Click the Lock & Edit button to modify, add or delete items in this domain.	Me	lessages 🖋 All changes have been activated. No restarts are necessary.											
Lock & Edit	Su	Summary of Deployments											
Release Configuration	c	Configuration Centrol Monitoring											
Domain Structure													
End/ordered Servers Cohereno Clusters Cohereno Clusters Resource Groups Mechines Mechines Mechines Motified Hosts Motified Hosts Motified Hosts Motified Hosts	L L	This page displays the list of Jave EE applications and standalone application modules installed to this domain. You can update (redsploy) 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 .											
Concurrent Templates		Install Updat	Delet	e							Showing 1	to 1 of 1 Previous 1	lext
Resource Management Startup and Shutdown Classes		Name ↔ State Health Type Targets Scope Domain Partitions Deployment Order											
How do I	1	B plato-discovery-service-5.1.0 New Web Application Discovery_Server Global 100											
Install an enterprise application		Install Update Delete Showing I to I of 1 Previous Next											
 Configure an enterprise application 													

Figure 4-9 Activate Changes - Success Message

13. On the **Summary of Deployments**, click **Control** to change the status from prepared to active.

Figure 4-10 Summary of Deployments - Control

	-									
Change Center	Home Log Out Preferences Mar Record Help Welcome, weblogic Connected to: platoinfra_domain									
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of JOBC Data Sources >Summary of Deployments >Summary of Servers >Summary of Deployments									
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Summary of Deployments Conflouration Control Monitoring									
Lock & Edit Release Configuration Domain Structure	This page displays the list of Jave 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.									
platoinfra_domain Domain Partitions Domain Partitions Servers DOMAGNERS	Customize this table Deployments									
Coherence Clusters	Start v Stop v			Show	ving 1 to :	of 1 Previous Next				
Resource Groups Resource Group Templates Machines	Servicing all requests Star	ate Health	Туре	Targets	Scope	Domain Partitions				
Virtual Hosts	Prepared VOK Web Application Discovery_Server Global									
Work Managers	Start v Stop v Showing I to I of 1 Previous Next									
Resource Management										

14. On **Deployments** table, select the server. Click **Start** and select **Servicing all requests** from the drop-down list.

Start Application Assistant screen displays.

Figure 4-11 Start Application Assistant

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	, weblogic Connected to: platoinfra_domain
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Summary of Clusters >Summary of Machines >Summary of JDBC Data Sources >Summary of Deployments	s >Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Start Application Assistant	
domain.	Yes No	
Release Configuration	Start Deployments	
Domain Structure	You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.	
Platoinfra_domain	Yes No	

- 15. Click Yes.
- **16.** The status is displayed as **Active** in the state column.



hange Center	Home Log O	👔 Home Log Out Preferences 🔛 Record Help									
/iew changes and restarts	Home >Summary Servers >Discover	Home >Summary of Clusters >Summary of Machines >Summary of JDBC Data Sources >Summary of Deployments >Summary of Servers >Summary of Deployments >Summary of Deployments >Summary of Deployments									
to pending changes exist. Click the Release configuration button to allow others to edit the	3 Summary of Deployments										
Lock & Edit Release Configuration	Configuration This page displa	Control Monitoring	lications and standalone applicat	ion modules installed to	o this dom	ain.					
omain Structure	Structure 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.										
Servers ClustersCoherence ClustersResource Groups	Customize thi	to install a new apprediction or module for deployment to targets in this domain, circk install.									
Resource Group Templates	Deployments										
Virtual Hosts	Install Upda	ate Delete							Showing 1 to :	of 1 Previous Next	
Work Managers	🗌 Name 🗠	,		State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order	
Resource Management	🗌 🗄 🐻 plat	to-discovery-service-5.1.0	1	Active	🛩 ок	Web Application	Discovery_Server	Global		100	
		Install Update Delete Showing 1 to 1 of 1 Previous Next									

Figure 4-12 Summary of Deployments - Configuration



5 Undeploy Application

This topic provides the systematic instructions to undeploy the application.

Undeploy Application

5.1 Undeploy Application

Specify **User ID** and **Password** to login to **Oracle WebLogic Administration Console**. Perform the following steps to undeploy the application:

1. On Domain Structure, click Deployments.

The Summary of Deployments screen displays.

Figure 5-1 Summary of Deployments

View changes and restarts	Home								
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page								
Lock & Edit	- Information and Resources								
Release Configuration	Helpful Tools	General Information							
	 Configure applications 	 Common Administration Task Descriptions 							
Domain Structure	 Configure GridLink for RAC Data Source 	 Read the documentation 							
platoinfra_domain	 Configure a Dynamic Cluster 	 Ask a question on My Oracle Support 							
Domain Partitions	 Recent Task Status 								
Environment Deployments	 Set your console preferences 								
Services Security Realms	— Domain Configurations —								
Interoperability	Domain	Resource Group Templates	Interoperability						
±⊢Diagnostics	Domain	Resource Group Templates	WTC Servers						
			Jolt Connection Pools						
	Domain Partitions	Resource Groups							
	Domain Partitions	Resource Groups	Diagnostics						
	Partition Work Managers		Log Files						
		Deployed Resources	 Diagnostic Modules 						
How do I	Environment	Deployments	 Built-in Diagnostic Modules 						
Search the configuration	Servers		Diagnostic Images						

2. Click Lock and Edit.

Figure 5-2 Lock and Edit

Configuration editing is enabled. Future	Summary of Deployments														
modify, add or delete items in this domain.	•	Confi	guration	Control	Monitoring										
Domain Structure dev_domain &P-Domain Partitions & Environment -Deployments -Services -Security Realms & Interoperability & Diagnostics	6	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 cor To install a new application or module for deployment to targets in this domain, click Install .							then using the control	s on this page.					
		Ins	tall Upda	ate Dele	rte									Showing 1 to 72	of 72 Previous Next
			Name 🚕						State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order
Henride T			🗄 🦲 app	shell-6.0.0)				Active	🛩 ок	Web Application	appshell	Global		100
Install an enterprise application			* 👩 cma	-account-s	ervices-6.0.0				Active		Web Application	commoncore	Global		100

3. On the **Deployments** table, select the service that needs to be undeployed in Deployments.



4. Go to **Control**. On the **Deployments** table, click **Stop** and select **Force stop now** from the drop-down list.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: dev_doma									
View changes and restarts	Home >Summary of Deployments										
Configuration editing is enabled. Future	Summary of Deployments										
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Control Monitoring										
Domain Structure dev_domain @*Domain Pattlons @*Domain Pattlons @*Domain Pattlons @*Domain Pattlons @*Security Realms @*Tatorogenability @*Tatorogenability	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 applic Customize this table Deployments	L. cotion name and then using the controls on this page.									
Congresses	Start v Stop v	Showing 1 to 72 of 72 Previous Next									
	Nam When work completes State	Health Type Targets Scope Domain Partitions									
	trace step inter Active Active	✓ OK Web Application appshell Global									
	E cmc-account-services-6.0.0 Active	✓ OK Web Application commoncore Global									
How do I	C C cmc-additional-attributes-services-6.0.0 Active	✓ CK Web Application commoncore Global									
Configure an enterprise application	☑ 🗄 cmc-advice-services Active	✓ OK Web Application commoncore Global									

Figure 5-3 Summary of Deployments - Control

5. Once the status is changed to **Prepared** state, go to **Configuration**.

Figure 5-4 Summary of Deployments

Configuration editing is enabled. Future	s	umma	ary of Dep	loyment	1										
changes will automatically be activated as you modify, add or delete items in this domain.		Confi	guration	Control	Monitorin	9									
Domain Structure		This	page displ	ays the list	of Java EE a	applications :	and standalone	application modules inst	alled to this	domain.					
Domain Partitions Environment		You	u 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.												
Deployments Services	To install a new application or module for deployment to targets in this domain, click Install .														
Security Realms Interoperability	-Security Realms -Interoperability Customize this table														
ar Diagnostics		Depl	oyments												
		Inst	all Upd	ate Del	ete									Showing 1 to 72	of 72 Previous Next
			Name 🗠						State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order
		0	🗄 🥫 app	-shell-6.0.	0				Active	🖋 ок	Web Application	appshell	Global		100
Install an enterprise application			🗄 🦲 cma	-account-	services-6.0.	0			Active		Web Application	commoncore	Global		100
Configure an enterprise application			🗄 🦲 cma	-additiona	l-attributes-	services-6.0.	0		Active		Web Application	commoncore	Global		100
Monitor the modules of an enterprise application application			🗄 🥫 cma	-advice-se	ervices				Prepared		Web Application	commoncore	Global		100

6. Select the service again and click **Delete** to undeploy the service.



6 Restart Servers

This topic provides the systematic instruction to restart the server.

Restart Servers

6.1 Restart Servers

Specify **User ID** and **Password** to login to **Oracle WebLogic Administration Console**. Perform the following steps to restart the server:

- On Domain Structure, click Environment. Under Environment, click Servers. The Summary of Servers screen displays.
- 2. On the Summary of Servers screen, click Control.

The Summary of Servers - Control screen displays.

Change Center	1	Home Log Out Preferences 📐	Record Help	٩	W	elcome, weblogic Connected to: platoinfra_dom						
View changes and restarts	Horr	Home >Summary of Machines >Summary of JDBC Data Sources >Summary of Deployments >Summary of Servers >Summary of Deployments >Summary of Servers >Discovery_Server >Summary of Servers >Summary of Deployments >Summary of Servers										
No pending changes exist. Click the Release Configuration button to allow others to exit the domain. Configuration Control												
Lock & Edit Release Configuration Domain Structure	Us Sta	se this page to change the state of andby mode requires the domain	of the servers in this WebLogic Server d -wide administration port.	omain. Control operations on Managed S	ervers require starting the M	lode Manager. Starting Managed Servers in						
platoinfra_domain												
Environment Servers Clusters	€ C	Customize this table	ns Frist)									
Coherence Clusters Resource Groups	5	Start Resume Suspend Shutdown Restart SSL Showing 1 to 9 of 9 Previous										
Machines		Server 🐟	When work completes	Machine	State	Status of Last Action						
Virtual Targets		AdminServer(admin)	Torce and down now	platoinfra_Machine	RUNNING	None						
Work Managers		Api_Gateway_Server		platoinfra_Machine	SHUTDOWN	None						
Resource Management Y		Config_Server		platoinfra_Machine	SHUTDOWN	None						
How do I		Discovery_Server		platoinfra_Machine	RUNNING	None						

3. On the Servers (Filtered - More Columns Exist) table, select the server. Click Shutdown and select the required option from the drop-down list.

The Server Life Cycle Assistant screen displays.

Figure 6-2 Server Life Cycle Assistant

Change Center	🕼 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: platoinfra_domain
View changes and restarts	Home >Summary of Machines >Summary of JDBC Data Sources >Summary of Deployments >Summary of Servers >Summary of Deployments >Summary of Deployments >Summary of Servers >Servers >Serv	sts >Summary of Servers >Discovery_Server >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Server Life Cycle Assistant	
domain.	Yes No	
Release Configuration	Forcibly Shutdown Servers	
Domain Structure	You have selected the following servers to be immediately shut down. Press 'Yes' to continue or 'No' to cancel. Discovery Server	
platoinfra_domain → Domain Partitions → Environment → Servers	Yes No	

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

A request is sent to immediately shut down the selected server.



Figure 6-3 Request Sent - Success Message

	•										
Change Center	Home Lo	g Out Preferences 🚵 Record Help	Q	Welcom	e, weblogic Connected to: platoinfra_dom						
View changes and restarts	Home >Summ Servers >Sum	hary of Machines >Summary of JDBC Data Sources >Su imary of Deployments >Summary of Servers	mmary of Deployments >Summary of Se	rvers >Summary of Deployments >Summary of Serve	rs >Discovery_Server >Summary of						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages	lessages # A request has been sent to immediately shut down the selected servers.									
Lock & Edit	Summary of S	Summary of Servers									
Release Configuration	Configuration Control										
Domain Structure	1										
Platofing, domain A Pomorin Pettlons Forwing Nettons Forwing Nettons Coherence Clusters Coherence Clusters Resource Groups Resource Groups Machines	Accurate Train Tra										
Virtual Hosts	Start R	esume Suspend - Shutdown - Restart SS	iL.		Showing 1 to 9 of 9 Previous Next						
Work Managers	Serve	er 🌣	Machine	State	Status of Last Action						
Resource Management	Admir	nServer(admin)	platoinfra_Machine	RUNNING	None						
How do I	Api_G	Sateway_Server	platoinfra_Machine	SHUTDOWN	None						
Start and stop servers	Config	g_Server	platoinfra_Machine	SHUTDOWN	None						
Start Managed Servers from the	Disco	very_Server	platoinfra_Machine	FORCE_SHUTTING_DOWN	TASK IN PROGRESS						

5. On the Servers (Filtered - More Columns Exist) table, select the server and click Start.

The Server Life Cycle Assistant screen displays.

Figure 6-4 Server Life Cycle Assistant

Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic	Connected to: platoinfra_domain
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Summary of Deployments >Summary of Servers >Discovery_Server >Summary of Serv JDBC Data Sources >Summary of Servers	ers >Summary of Deployments >!	Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Server Life Cycle Assistant		
domain. Lock & Edit	Yes No		
Release Configuration	Start Servers		
Domain Structure	You have selected the following servers to be started. Press 'Yes' to continue or 'No' to cancel. Oterwary. Server		
platoinfra_domain Domain Partitions -Environment -Environment	Yes No		

- 6. Click **Yes** to confirm the action.
 - A request is sent to the node manager to start the selected servers.

Figure 6-5 Resquest Sent - Success Message

	•									
Change Center	😰 Home Log Out Preferences 🚵 Record Help	Q	Welcome, webi	ogic Connected to: platoinfra_don						
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Sum JDBC Data Sources >Summary of Servers	imary of Deployments >Summary of Servers >Discovery_Serve	r >Summary of Servers >Summary of Deploym	ents >Summary of Servers >Summary of						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages A request has been sent to the Node Manager to start	t the selected servers.								
Lock & Edit	ummary of Servers									
Release Configuration	onfiguration Control									
Domain Structure										
alatoinfra_domain	Use this page to change the state of the servers in this V Standby mode requires the domain-wide administration	WebLogic Server domain. Control operations on Managed port.	Servers require starting the Node Manager.	Starting Managed Servers In						
Servers	25									
Coherence Clusters	Customize this table									
Resource Group Templates	Servers (Filtered - More Columns Exist)									
Virtual Hosts	Start Resume Suspend v Shutdown v Rest	art SSL	:	Showing 1 to 9 of 9 Previous Next						
Work Managers	Server 🙈	Machine	State Status of La	ast Action						
Resource Management	AdminServer(admin)	platoinfra_Machine	RUNNING None							
How do I	Api_Gateway_Server	platoinfra_Machine	SHUTDOWN None							
Start and stop conver	Config_Server	platoinfra_Machine	SHUTDOWN None							
 aran and stop servers 	Directions Sector	platolofra Machino	SHITTOONIN TASK IN DRO	CDECC						

• All the requested servers are running in the state column.



Figure 6-6 Summary of Servers - Control

Change Center		館 Home Log	Out Preferences	Necord Help		٩	w	elcome, weblogic	Connected to: platoinfra_don			
View changes and restarts		Home >Summar JDBC Data Source	ome >Summary of Deployments >Summary of Servers >Summary of Deployments >Summary of Servers >Discovery_Server >Summary of Servers >Summary of Deployments >Summary of Servers >Burnmary of Servers >Summary of									
No pending changes exist. Click the Release Configuration button to allow others to edit	se it the	Summary of Servers										
doman.		Configuration	Control									
Release Configuration		Use this page Standby mode	to change the sta e requires the don	ate of the servers in t main-wide administra	this WebLogic Server d tion port.	omain. Control operations on Managed	Servers require starting the l	Node Manager. Star	ting Managed Servers in			
alatoinfra_domain	^	\$ 5										
Domain Partitions Frwironment Servers Clusters Clusters		Customize										
Resource Groups		Start Resume Suspend v Shutdown v Restart SSL							ing 1 to 9 of 9 Previous Next			
Machines		Server	â			Machine	State	Status of Last A	ction			
Virtual Targets		AdminServer(admin)			platoinfra_Machine	RUNNING	None					
Work Managers		Api_Gal	Api_Gateway_Server			platoinfra_Machine	SHUTDOWN	None				
Resource Management	~	Config_	Server			platoinfra_Machine	SHUTDOWN	None				
How do I		Discove	av Server			platoinfra Machine	RUNNING	TASK COMPLETED)			

7. When all requested servers are running, go to **Summary of Deployments** and check if deployments status is active.

Figure 6-7 Summary of Deployments

Change Center	🏦 Home Log Out: Preferences 🖂 Record: Help 📃 🔍 Welcome, weblogic Connected to: platoinfra_domain									
View changes and restarts	Home >Summary of Servers >Summary of Deployments >Summary of Servers >Discovery_Server >Summary of Servers >Summary of Deployments >Summary of JOBC Data Sources >Summary of Deployments									
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	the Release hers to edit the Summary of Deployments									
Lock & Edit Release Configuration	Configuration Control Monitoring This page displays the list of Java EE applications and standalone application modules installed to this domain.									
Demain Structure Performance Servers Coherence Clusters -Coherence Clusters -Resource Course -Resource Course -Resource Course -Resource Course -Resource Course -Resource Course -Resource Clusters -Re										
Machines Virtual Hosts	Install Update Delete	Showing 1 to 1 of 1 Previous Next								
Virtual Targets Work Managers	□ Name ↔ State Health Type Targets Scope Domain Partitions Deployr									
Resource Management Startup and Shutdown Classes	• • • • plato-discovery-service-5.1.0 Active Web Active • • • • • • • • • • • • • • •									
How do I	Linstal Update Delete Showing 1 to 1 of 1 Previous Next									



7 Check Port Number

This topic describes the systematic instructions to check the port number.

Specify User ID and Password to login to Oracle WebLogic Administration Console.

 On Domain Structure, click Environment. Under Environment, click Servers. The Summary of Servers screen displays.

Figure 7-1 Summary of Servers

	Name 🕎	Туре	Cluster	Machine	State	Health	Listen Port
	AdminServer(admin)	Configured			RUNNING	🖋 ОК	7020
	managed_server1	Configured		Machine 1	RUNNING	🖋 ОК	7023

2. On the Servers (Filtered - More Columns Exist) table, check all the listed servers.



8 WebLogic Embedded LDAP Setup

This topic provides the information to configure the Weblogic Embedded LDAP server for Oracle Banking Microservices Architecture

- Configure WebLogic LDAP
 This topic provides systematic instructions to configure WebLogic LDAP Setup.
- Create Users This topic provides systematic instructions to create users.
- Oracle Banking Microservices Architecture Security Config Table Entries This topic describes about Oracle Banking Microservices Architecture Security Config Table Entries.

8.1 Configure WebLogic LDAP

This topic provides systematic instructions to configure WebLogic LDAP Setup.

Specify User ID and Password to login to Oracle WebLogic Administration Console.

- **1.** Navigate to left panel and click domain name.
- 2. Under Settings for Idap_domain, click Security and Embedded LDAP.

Figure 8-1 Settings for Idap_domain

Change Center	🔹 Home: Log Cut. Weferences 🔛 R	locand Help	4	Welcome, Connected to: Map_domain				
View changes and restarts	rone Hidep_domate							
Configuration editing is enabled. Future	Settings for klap_domain							
modify, add or delete items in this domain.	Configuration Monitoring Control	Security Web Servic	e Senuity ZDT Control Notes					
Domain Structure	General Filter Unlock User Er	ntaekted LDAP Roles	Policies SSL Certificate Revocation Checking	MGPR				
Idap_domain Brittomain Partitions	(Seve.)							
Environment Deployments Services	This page allows you to configure the	enibedded LDAP server fo	this WebLogic Server domain.					
 Security Realms Enteroperability Chapteristics 	Credential:	1		The codential (usually a parameter) used to connect to the embedded (DMP server. More below				
	@ Confirm Credential:	1						
	🛃 Backup Hour:	23		The four at which the embedded LDVP server should be becked up. More ${\rm Iofe}_{\rm ex}$				
How do 1	👩 Backup Minute:	5		The menute at which the embedded LDAP server should be backed up. Here byles				
 Configure the imbiolded LDAP server 								
 Configure authentication and identity assertion providers 	de Bachup Copies:	7		The maximum number of backap copies that should be made to the umbedded UDAP server. More brits				
System Status	Cache Enabled			Specifies whether a cache is used with the embedded LDAP server. More ${\rm [Max}_{\rm e}$.				
Health of Iluming Servers as of 12:36 AM	🖉 Cache Size:	32		The size of the cache (in Mobyles) that is used with the embedded LDAP				

3. Set the Credential for WebLogic Embedded LDAP store.



8.2 Create Users

This topic provides systematic instructions to create users.

Specify User ID and Password to login to Oracle WebLogic Administration Console.

1. On Domain Structure, click Security Realms.

The Summary of Security Realms screen displays.

Figure 8-2 Summary of Security Realms

Change Center	🚹 Home Log Out Preferences 🔤 Record Help							
View changes and restarts	Home >temp_domain >Summary of Security Realms							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Security Realms							
Domain Structure	A security realm is a container for the mechanisms-including users, groups, security roles, security policies, and security providers-that an in a WebLogic Server domain, but only one can be set as the default security realm, which is reserved for domain administrative purposes.							
temp_domain @-Domain Partitions @-Environment Deployments Services Services	This Security Realms page lists each security realm that has been configured in this WebLogic Server domain. Click the name of the realm Customize this table Realms (Filtered - More Columns Exist)							
Interoperability Diagnostics	New Delete							
ů.	□ Name 🗞 Default Realm							
	myrealm true							
	New Delete							

 On the Realms (Filtered - More Columns Exist) table, click myrealm. The Setting of myrealm screen displays.

Figure 8-3 Settings for myrealm

View changes and restarts	Home >temp_domain >Summary of Security Realms >myrealm > Users and Groups									
Configuration editing is enabled. Future	Settings for myrealm									
changes will automatically be activated as you modify, add or delete items in this domain.	Con	Configuration Users and Groups Ro		Roles and Policies	les and Policies Credential Mappings Providers		Migration			
Domain Structure	Use	s Grou	ıps							
temp_domain @-Domain Partitions @-Environment Deployments @-Services Security Realms @-Interoperability Dependence	Th Cu Gro	This page displays information about each group that has been configured in this security realm. Customize this table Groups								
E Diagnosues	N	New Delete								
		Name	ô	Description						
	C	AdminC	hannelUsers	AdminChannel	AdminChannelUsers can access the admin channel.					
		Adminis	trators	Administrators	can view and modify all	resource attr	ributes and start and stop servers.			
How do I	C	AppTest	ters	AppTesters gro	iup.					
· Menane users and ensure		CrossDo	mainConnectors	CrossDomainCo	CrossDomainConnectors can make inter-domain calls from foreign domains.					
Create groups		Deploye	rs	Deployers can	view all resource attribu	tes and deplo	by applications.			
Create groups Monitors Monitors can view and modify all resource attributes and perform operations not restricted by roles.							s and perform operations not restricted by roles.			
Delete groups		Operato	irs	Operators can	view and modify all reso	urce attribute	es and perform server lifecycle operations.			
	Oracle SystemGroup Oracle application software system group.									
System Status	N	w Del	ete							

- 3. Under Settings for myrealm, click Users and Groups
- 4. Click Groups. On the Groups table, Click New.

The **Create a New User** screen displays.



Configuration editing is enabled. Future	Create a New User						
modify, add or delete items in this domain.	OK Const						
Domain Structure	User Properties						
ldip_domain Domain Partitions Environment Deployments	The following properties will * Indicates required fields	be used to identify your new User.					
B Services	What would you like to name y	your new User?					
® Interoperability ® Diagnostics	* Name:	testuser					
	How would you like to describe	e the new User?					
	Description:	user for testing					
	Please choose a provider for th	he user.					
How do I 8	Develop						
Create users	Province.	Detauceursenecator •					
 Modify users 	The password is associated with	th the login name for the new User.					
Delete users	1 Property						
Create groups	Password.						
Manage users and groups	* Confirm Desmand						
System Status							
Health of Running Servers as of 12:48 AM	OK Cancel						
Failed (0)	Contraction of the local sector						

Figure 8-4 Create a New User

5. Specify all the required details and click **OK**.

The new group is created.

6. Go to Settings for myrealm, click Users.

Figure 8-5 Settings for myrealm

Change Center	🔒 Home Log Out Preferences 🔤 Record Help									
View changes and restarts	Home >temp_domain >Summary of Security Realms >myrealm >Users and Groups									
Configuration editing is enabled. Future	Settings for myrealm									
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Users and Groups Roles and Policies Credential Mappings Providers Migration									
Domain Structure	Users Groups									
temp_domain @-Domain Partitions @-Environment Deployments @-Security Realms @-Interoperability @-Dagnostics	This page displays information about each user that has been configured in this security realm. Customize this table Users (Filtered - More Columns Exist)									
	□ Name									
	LCMUser This is the default service account for WebLogic Server Lifecycle Manager configuration updates.									
Oracle SystemUser Oracle application software system user.										
How do I	weblogic This user is the default administrator.									
	New Delete									

7. On the **Users** table, Click **New**.

The Create a New User screen displays.

Configuration editing is anabled. Future	Create a New User	
changes will automatically be activated as you modify, add or delete items in this domain.	OK Genoel	
Domain Structure	User Properties	
sp_domein 8 Domein Partitions 9 Environment — Deployments	The following properties will * Indicates required fields	be used to identify your new User.
8 Services	What would you like to name	your new User?
P Interoperability P Degnostics	* Name:	testuser
	How would you like to describ	e the new User?
	Description:	user for festing
	Please choose a provider for th	he user,
iow do I 8	Burthe	
Create users	Provider:	DefaultAuthenticator •
Modify users	The password is associated wi	th the login name for the new User.
Delete users	* Passonrel	
Mapage users and amount		
	* Confirm Password:	[mmmd
ystem Status 🛛 🗧		
Health of Running Servers as of 12:48 AM	OK Cancel	
Failed (0)	and the second second second	





8. Specify all the required details and click **OK**.

The new user is created.

View changes and restarts Home >temp_domain >summary of Security Realms >myrealm >Users and Groups Configuration editing is enabled. future changes will automatically be activated as you modify, add or delete items in this domain. Messages Domain Structure temp_domain Partitions Settings for myrealm Settings for myrealm ®-Connain Partitions Ferwire Groups Configuration displays information about each user that has been configured in this security realm. P-Services Settings for myrealm This page displays information about each user that has been configured in this security realm. Image: Setting Realms Customize this table Users (Filtered - More Columns Exist)									
			Name 🚕	Description					
How do I			ADMINUSER1	ADMINUSER1					
Manage users and groups			.CMUser	This is the default serv	vice account for WebLog	ic Server Life	cycle Manager configurati	ion updates.	
Create users			DracleSystemUser	Oracle application soft	ware system user.				
Modify users			veblogic	This user is the defaul	t administrator.				
Delete users		New Delete							

Figure 8-7 User Creation- Success Message

9. On the Users (Filtered - More Columns Exist) table, click on the newly created user to assign to some group.

The Setting for ADMINUSER1 screen displays.

 On Setting for ADMINUSER1 (or whatever your user name is) window, click Groups and select the required groups to assign to the user and click single right button as shown below.

Figure 8-8 Setting for ADMINUSER1

View changes and restarts	$\label{eq:home} Home > temp_domain > Summary \ of \ Security \ Realms > myrealm > Users \ and \ Groups > ADMINUSER1$						
Configuration editing is enabled. Future	Settings for ADMINUSER1						
changes will automatically be activated as you modify, add or delete items in this domain.	General Passwords Attributes Groups						
Domain Structure	Save						
temp_domain -Domain Partitions -Environment	Use this page to configure group membership for this user.						
DeploymentsServices	Parent Groups:						
Security Realms	Available: Chosen:						
+-Interoperability	Administrators						
La Diagnosica	AppTesters						
	CrossDomainConnectors						
	✓ Deployers						
	Monitors						
	OracleSystemGroup ▼						

11. Click Save.

The selected groups displays on **Chosen**.



View changes and restarts	Home >temp_domain >Summary of Security Realms >myrealm >Users and Groups >ADMINUSER1						
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for ADMINUSER1						
modify, add or delete items in this domain.	General Passwords Attributes Groups						
Domain Structure	Save						
temp_domain -Domain Partitions -Environment	Use this page to configure group membership for this user.						
Deployments Services	Parent Groups:						
Security Realms	Available: Chosen:						
Interoperability	AdminChannelUsers Deployers						
Diagnostics	Administrators Deperators						
	AppTesters						
	CrossDomainConnectors						
	Monitors						
	OracleSystemGroup						
	~~						
How do I							
Crasta usars	Save						

Figure 8-9 Setting for ADMINUSER1

8.3 Oracle Banking Microservices Architecture Security Config Table Entries

This topic describes about Oracle Banking Microservices Architecture Security Config Table Entries.

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

Connection Details:

URL: ldap:// 10.99.99.10:7001

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

User Search Base: ou=people,ou=myrealm

Server User: cn=admin

Server Credentials: As setup in step Point 3 under 1.8.1

Security Config Table Entries:

Table 8-1 Security Config Table Entries:

ID	VALUE	Description
LDAP_URL	ldap:// 10.99.99.10:7001	Valid LDAP Server address with port.
LDAP_SERVER_USER	cn=admin	LDAP server login username
LDAP_SERVER_BASE	dc=ldap_domain	LDAP Server Base
LDAP_SERVER_CREDENTI AL	ylksiMFfjVbfcpA7Qheh8Q==	LDAP server credentials in encrypted form (For Encryption steps, refer to Encrypted Utility section below)
LDAP_USER_SEARCH_BA SE	ou=people,ou=myrealm	LDAP User Search Base



Table 8-1 (Cont.) Security Config Table Entries:

ID	VALUE	Description
LDAP_PROVIDER	EMBEDDED_WEBLOGIC	Which LDAP Provider to be used. Also, if this row is not present in this table, then In-House Spring Plato LDAP will be used.



9 Oracle Analytic Server Setup

This topic provides the information to configure the Oracle Analytic Server for Oracle Banking Microservices Architecture.

- Prerequisites This topic describes about prerequisites for Oracle analytic server setup.
- Start BI Server This topic provides systematic instructions to start BI server.
- Upload BI Reports
 This topic provides systematic instructions to upload BI reports.
- Test BI Reports
 This topic provides systematic instructions to test BI reports.

9.1 Prerequisites

This topic describes about prerequisites for Oracle analytic server setup.

• Make sure that the machine is installed with Java JDK.

Note:

For the exact version to be installed, refer to **Software Prerequisites** section in **Release Notes**.

Oracle Analytics Server 5.5.0

9.2 Start BI Server

This topic provides systematic instructions to start BI server.

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

9.3 Upload BI Reports

This topic provides systematic instructions 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:



Table 9-1	Upload BI	Reports
-----------	-----------	---------

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

3. Upload the catalog object to Analytics Server.

9.4 Test BI Reports

This topic provides systematic instructions to test 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.



If the format of the report selected is PDF, a PDF report is generated.

10 How to deploy Plato-Apigateway Router

This topic provides the systematic instructions to deploy the plato-apigateway router.

Router deployment steps

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

1. Deploy plato-config-service

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

2. Deploy plato-ui-config-service

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

3. Deploy plato-api-gateway

a. Migrate existing OAuth users:

```
API for migration - /api-gateway/migrateOauthUsers
Example: http://hostname:8080/api-gateway/migrateOauthUsers
Authorization - jwtToken
Headers:
appId,userId,entityId
Body (Json): ["client1", "client2"] - Migrate selected list of clients
or
Body (Json): ["ALL"] -Migrate all clients.
```

4. Deploy plato-apigateway-router

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

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

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

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

- --server.ssl.enabled=true
- --server.ssl.key-store=C:/Users/KEYS/keytool/keystore.jks
- --key-store-password=xxxx
- --server.ssl.trust-store=C:/Users/KEYS/keytool/truststore.jks
- --trust-store-password=xxxxx
- --salt=xxxxx

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



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

- --apigateway.useServerSSLKeys=false
- --apigateway.ssl.key-store=C:/Users/KEYS/keytool/keystore.jks
- --apigateway.ssl.key-store-password=xxxx
- --apigateway.ssl.trust-store=C:/Users/KEYS/keytool/truststore.jks

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

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

we must also provide trust certificates as

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

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

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

Generation pem file and encryption of secrets:

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

Encryption of secrets:

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

Encrypted Password: m4Q1rbtegkWse2s7D2jKfw==

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

Enter pass phrase: Test123

Enter Salt: 0.9412345671234567

Encryption of salt:

To encrpt –salt value used while generating encrypted secret. This encrypt salt must be passed to router service.

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

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

Enter Salt: 0.9412345671234567

Encrypted Password: VmtjMWQxTnJOVlpPV0VaWFZrVndUMWxYTVU1bFJsSlpZMFZLYTFaVVZrWldWbW qzVkRGS1JsWnFVVDA9

PEM file from keystore

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



Timeout parameters

These parameters are similar to earlier ribbon timeout params:

```
spring.cloud.gateway.httpclient.connect-timeout= 3000 //seconds
spring.cloud.gateway.httpclient.response-timeout= 360s
spring.cloud.gateway.httpclient.pool.acquire-timeout=6000 //milliseconds
spring.cloud.gateway.httpclient.pool.max-connections=10000
```

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

```
webclient.http.max.connections=1000
webclient.http.acquire.timeout.millisec=5000
webclient.http.connection.timeout.millisec=20000
webclient.http.read.timeout.seconds=20000
webclient.http.write.timeout.seconds=20000
```



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