

Kafka Configuration Guide
Oracle Banking Digital Experience
Patchset Release 22.2.1.0.0

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ORACLE®

Kafka Configuration Guide

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

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

1.3 Access to Oracle Support

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

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

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

1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Patchset Release 22.2.1.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

2. Context

This document contains step to configure kafka notifications for VAM/LM event in the system.

Below JMS changes will be required –

1. Create NotificationServer under JMS Servers.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of JMS Servers". Below the title, there is a table with the following columns: Name, Persistent Store, Target, Current Target, and Health. The table lists 11 JMS servers, including NotificationServer, which is highlighted. The NotificationServer row shows a Persistent Store of WLS_JMS_NOTIFICATION_PS, a Target of obdc_server1, and a Current Target of obdc_server1. The Health column for all servers shows "OK".

Name	Persistent Store	Target	Current Target	Health
AccessJMSServer	WLS_JMS_ACCESS_PS	obdc_Cluster	obdc_Cluster	OK
AuthJMSServer	WLS_JMS_AUTH_PS	obdc_Cluster	obdc_Cluster	OK
ExtSystemReceiver	WLS_JMS_EXTSYSTEMRECEIVER_PS	obdc_Cluster	obdc_Cluster	OK
ExtSystemSender	WLS_JMS_EXTSYSTEMSENDER_PS	obdc_Cluster	obdc_Cluster	OK
FileUploadJMSServer	WLS_JMS_FILEUPLOAD_PS	obdc_Cluster	obdc_Cluster	OK
SOJMSServer	WLS_JMS_PS	obdc_server1	obdc_server1	OK
JPAJMSServer	WLS_JMS_PS	obdc_Cluster	obdc_Cluster	OK
NotificationServer	WLS_JMS_NOTIFICATION_PS	obdc_server1	obdc_server1	OK
ReportsJMSServer	WLS_JMS_REPORT_PS	obdc_Cluster	obdc_Cluster	OK
URISNotificationServer	WLS_JMS_FCDB_PS	obdc_server1	obdc_server1	OK

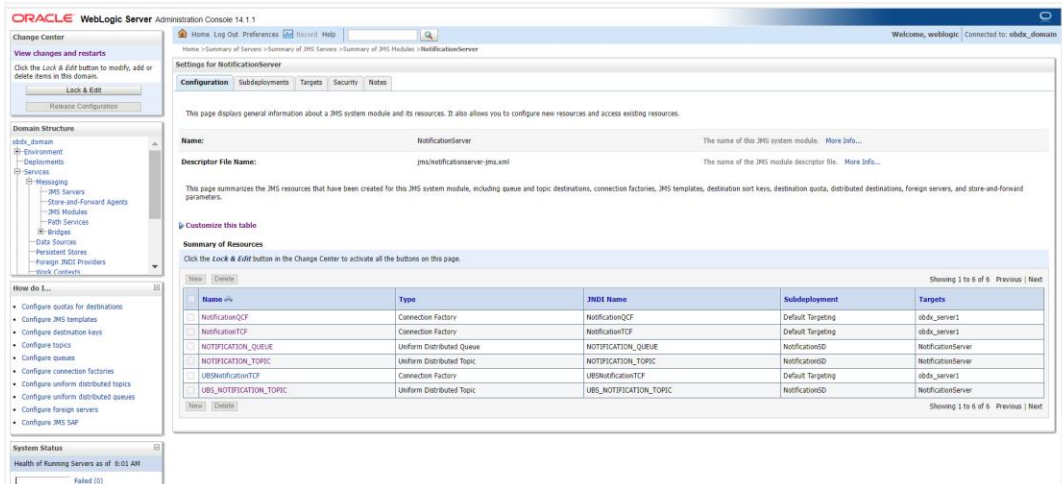
2. Create NotificationServer Module under JMS Modules.

Create below destinations

Name	Type	Description
NOTIFICATION_TOPIC	Topic	Local Notification Topic where message will be routed.
NotificationTCF	Topic Connection Factory	

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of JMS Modules". Below the title, there is a table with the following columns: Name and Type. The table lists 10 JMS modules, including NotificationServer, which is highlighted. The NotificationServer row shows a Type of JMSSystemResource.

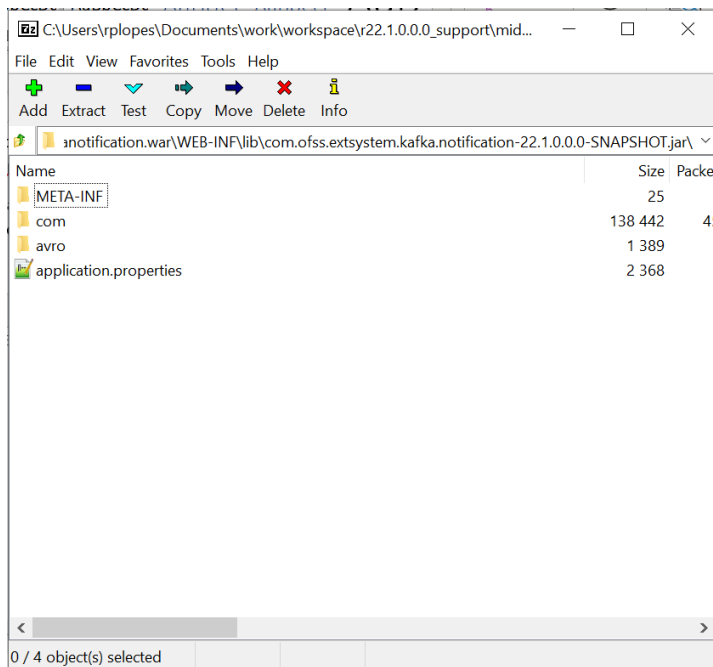
Name	Type
AccessJMSModule	JMSSystemResource
AuthJMSServer	JMSSystemResource
ExtSystemReceiverQCF	JMSSystemResource
ExtSystemSender	JMSSystemResource
FileUploadJMS	JMSSystemResource
SOJMS	JMSSystemResource
HostSystemModule	JMSSystemResource
JPA_JMS	JMSSystemResource
NotificationServer	JMSSystemResource
ReportsJMSModule	JMSSystemResource



3. Kafka properties changes

Below changes are required to point to correct Kafka config. Open war in 7zip tool and go to digx-kafkanotification.war\WEB-INF\lib\com.ofss.extsystem.kafka.notification-22.1.0.0.0-SNAPSHOT.jar\ folder. We have to make changes in application.properties as shown below.

There are separate properties for LM and VAM. In case of multiple entity setup the target.unit property can be changes to new entity and same war can be deployed entity times.



```

1 # LM Kafka properties
2 spring.kafka.lm.bootstrap-servers=100.76.136.57:9093
3 spring.kafka.lm.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess/kafka/OBLMClientTrust_142.jks
4 #spring.kafka.lm.configuration.ssl.truststore.location=/scratch/obdx/domains/OBLMClientTrust_142.jks
5 spring.kafka.lm.configuration.ssl.truststore.password=oracle123
6 spring.kafka.lm.consumer.group-id=vamlm-charges-services-grp
7 spring.kafka.lm.consumer.topic.name=lm.accountnotification
8 spring.kafka.lm.configuration.security.protocol=SASL_SSL
9 spring.kafka.lm.configuration.security.mechanism=SCRAM-SHA-256
10 spring.kafka.lm.properties.sasl.jaas.config.username=alice
11 spring.kafka.lm.properties.sasl.jaas.config.password=alice-secret
12 spring.kafka.lm.properties.auto.offset.reset=earliest
13 spring.kafka.lm.properties.auto.commit.interval.ms=1000
14 spring.kafka.lm.properties.session.timeout.ms=30000
15 spring.kafka.lm.properties.enable.auto.commit=false
16
17 # VAM Kafka properties
18 spring.kafka.vam.bootstrap-servers=100.76.142.18:9093
19 spring.kafka.vam.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess/kafka/KafkaClientTrustStore.jks
20 #spring.kafka.vam.configuration.ssl.truststore.location=/scratch/obdx/domains/KafkaClientTrustStore.jks
21 spring.kafka.vam.configuration.ssl.truststore.password=orcl123
22 spring.kafka.vam.consumer.group-id=obvam-projection-services-grp
23 spring.kafka.vam.consumer.topic.name=vam.virtualaccountnotification
24 spring.kafka.vam.configuration.security.protocol=SASL_SSL
25 spring.kafka.vam.configuration.security.mechanism=SCRAM-SHA-512
26 spring.kafka.vam.properties.sasl.jaas.config.username=obvam
27 spring.kafka.vam.properties.sasl.jaas.config.password=obvam-secret
28 spring.kafka.vam.properties.auto.offset.reset=earliest
29 spring.kafka.vam.properties.auto.commit.interval.ms=1000
30 spring.kafka.vam.properties.session.timeout.ms=30000
31 spring.kafka.vam.properties.enable.auto.commit=false
32
33 # Queue properties
34 spring.weblogic.context.factory=weblogic.jndi.WLInitialContextFactory
35 spring.weblogic.notification.topic.factory=NotificationTCF
36 spring.weblogic.notification.topic=NOTIFICATION_TOPIC
37
38 target.unit=OBDX_BU

```

4. Connector changes

This is optional step. If we don't want to keep passwords in above properties file, same can be added to obdx connector resource adapter.

Create below connectors

1. ra/DIGXConnectorOBLM_KAFKA_JAAS
2. ra/DIGXConnectorOBLM_KAFKA_SSL
3. ra/DIGXConnectorOBVAM_KAFKA_JAAS
4. ra/DIGXConnectorOBVAM_KAFKA_SSL

<input type="checkbox"/>	ra/DIGXConnectorOBLM_KAFKA_JAAS	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBLM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBSCF	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBTFFPM_14.3	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM_KAFKA_JAAS	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorREWARDS	javax.resource.cci.ConnectionFactory

- i. EIS User Name - OBVAM_KAFKA_SSL, EIS User Password - <<password here>>
- ii. EIS User Name - OBVAM_KAFKA_JAAS, EIS User Password - <<password here>>
- iii. EIS User Name - OBLM_KAFKA_JAAS, EIS User Password - <<password here>>
- iv. EIS User Name - OBLM_KAFKA_SSL, EIS User Password - <<password here>>

<input type="checkbox"/>	Default	OBVAM_KAFKA_SSL	ra/DIGXConnectorOBVAM_KAFKA_SSL
<input type="checkbox"/>	Default	OBVAM_KAFKA_JAAS	ra/DIGXConnectorOBVAM_KAFKA_JAAS
<input type="checkbox"/>	Default	OBLM_KAFKA_JAAS	ra/DIGXConnectorOBLM_KAFKA_JAAS
<input type="checkbox"/>	Default	OBLM_KAFKA_SSL	ra/DIGXConnectorOBLM_KAFKA_SSL

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