

Oracle® Banking Payments

WebLogic Deployment



Release 14.8.0.0.0

G32377-02

May 2025



Oracle Banking Payments WebLogic Deployment, Release 14.8.0.0.0

G32377-02

Copyright © 2017, 2025, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

1 Preface

1.1	Purpose	1-1
1.2	Audience	1-1
1.3	Documentation Accessibility	1-1
1.4	Critical Patches	1-2
1.5	Diversity and Inclusion	1-2
1.6	Conventions	1-2

2 Deploying Oracle Banking Payments on WebLogic

2.1	Building Application	2-1
2.2	Deploying Application in Oracle WebLogic	2-1
2.2.1	Deploying Dependency Library “Jersey-bundle”	2-1
2.2.2	Deploying Oracle Banking Application from WebLogic Remote Console	2-3
2.2.3	API Gateway Router Deployment	2-4
2.2.4	JVM Arguments to Configure	2-4

1

Preface

- [Purpose](#)
- [Audience](#)
This manual is intended for the following User/User Roles:
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

1.1 Purpose

This guide is designed to help acquaint you with the Oracle Banking Payments application.

This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Administration of WebLogic Server is performed using the WebLogic Remote Console. Administration console is no longer supported in WebLogic Server 14.1.2.0.0 and has been removed.

WebLogic Remote Console documentation reference: <https://oracle.github.io/weblogic-remote-console/overview/>

For general information on the application deployment process, refer [Understanding WebLogic Server Deployment](#) in Deploying Applications to Oracle WebLogic Server.

1.2 Audience

This manual is intended for the following User/User Roles:

Table 1-1 User Roles

Role	Function
Implementation & IT Staff	Implementation & Maintenance of the Software

1.3 [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.

1.4 Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches](#), [Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

1.5 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.

1.6 Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

2

Deploying Oracle Banking Payments on WebLogic

This chapter explains the steps to deploy Oracle Banking Payments application into Oracle WebLogic application server in centralized and decentralized modes. In centralized mode, branch and host are setup in a single PC. In decentralized mode, branch and host are setup in different PCs.

- [Building Application](#)
For building Oracle Banking Application refer to the following chapters:
- [Deploying Application in Oracle WebLogic](#)
This section explains the method of deploying Oracle Banking Application Oracle WebLogic application server.

2.1 Building Application

For building Oracle Banking Application refer to the following chapters:

- Creating Property File
- Building WAR Files

2.2 Deploying Application in Oracle WebLogic

This section explains the method of deploying Oracle Banking Application Oracle WebLogic application server.

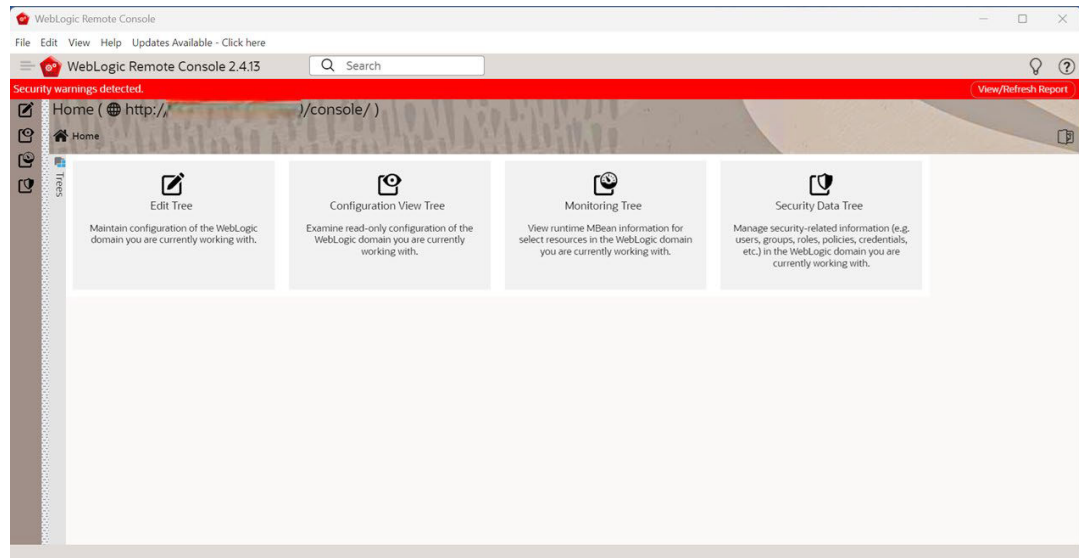
- [Deploying Dependency Library “Jersey-bundle”](#)
- [Deploying Oracle Banking Application from WebLogic Remote Console](#)
- [API Gateway Router Deployment](#)
- [JVM Arguments to Configure](#)

2.2.1 Deploying Dependency Library “Jersey-bundle”

This library must be installed before deploying Application WARs. Follow the below steps:

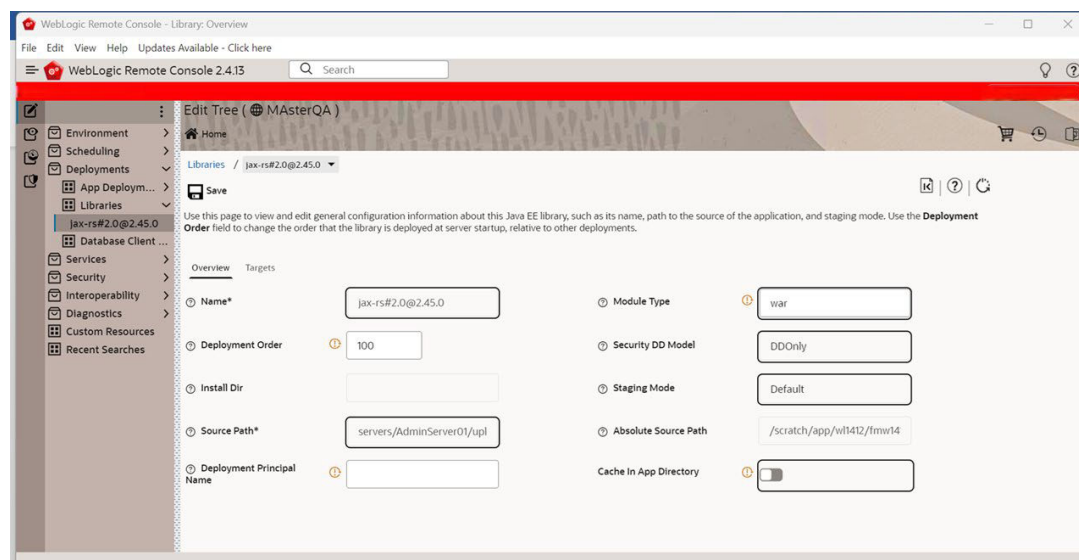
1. Start the WebLogic Remote Console and login to WebLogic application server console.
Oracle Remote Console screen is displayed.

Figure 2-1 Oracle Remote Console - Welcome



2. In the **Edit Tree**, go to **Deployments**, then **Libraries**, Click **New**.
Specify a name `jax-rs`.
3. Select the servers and clusters where you want to deploy the `jax-rs` library. Ensure that you target all servers and clusters where the modules or applications referencing the library are deployed.
4. Clear the Upload option to install the `jax-rs` library from the file system of the WebLogic Administration Server, and then enter the file path to the `jax-rs` library.
For ex: `Oracle/Middleware/Oracle_Home/wlserver/common/deployable-libraries/ jax-rs-2.0.war`
5. Click **Create**. The new library appears under the Libraries node. User can make additional changes to the Java library on this page.

Figure 2-2 Summary of Deployments



2.2.2 Deploying Oracle Banking Application from WebLogic Remote Console

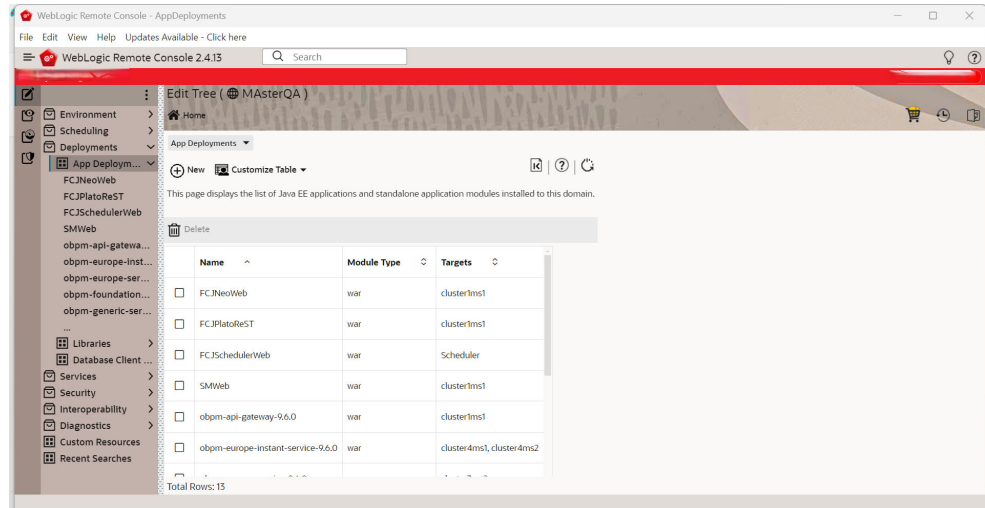
To deploy Oracle Banking Application from WebLogic Remote Console, follow the following steps:

1. Start the WebLogic Remote Console and login to WebLogic application server console.
2. In the Edit Tree, go to **Deployments**, then **App Deployments**, select **New**.
3. Specify a name for the application. For ex: FCJNeoWeb.
4. Select the servers and clusters to which you want to deploy the application.
5. Make the archive file or exploded directory known to the Administration Server.
 - a. If the application is on your file system and you need to upload it to the Administration Server, enable the **Upload** option. Then, beside **Source**, click **Choose File** to browse to the application's location on your system.
 - b. If the application is already in the file system of the Administration Server, disable the **Upload** option. Then, in the **Source Path** field, enter the file path to the application.
6. To deploy Application WAR 'FCJNeoWeb.war', specify the file path to the application.
7. Click **Create**.

User's new application appears under the App Deployment node. User can make additional changes to the application on this page.

8. Similarly, to deploy all the WAR files follow the same steps as above.
9. Start an application to make it available to WebLogic Server clients.
 - a. In the **Monitoring Tree**, go to **Deployments**, then **Application Management**
 - b. Select the application to start.
 - c. Click Start and select.
 - Servicing all requests: to make the application immediately available to all clients.
 - d. **Import Note:** Start services in following order (applicable for Restart of services also)
 - i. First set (can be started in parallel)
 - i. ODT Application (FCJNeoWeb, SMWeb)
 - ii. plato-config
 - iii. plato-discovery
 - iv. plato-api-gateway
 - ii. Wait till above services are up and running , then start all other remaining services (can be started in parallel).
 - iii. Start API-Gateway Router, refer section [API Gateway Router Deployment](#).

Figure 2-3 Summary of Deployments



2.2.3 API Gateway Router Deployment

1. Get the api-gateway router jar file from the obpm_services tar zip file. Copy the jar file from <extracted folder>/obpm_services/obpm-apigateway-router/obpm-apigateway-router-9.6.0.jar and place into deployment path in Linux for ex: /scratch/obpm_installer_router/deployables/apps/obpm
2. Execute `java -jar obpm-apigateway-router_name` with parameters listed below:
obpm-apigateway-router_name = "obpm-apigateway-router-9.6.0.jar"

Parameters to maintain in api-gateway-router deployment file	Comments
<code>java -jar obpm-apigateway-router_name</code>	Mention the router.jar name
<code>--plato.services.config.uri=http://0.0.0.0:0000</code>	Provide the host name and config-service deployed port
<code>--plato.service.logging.path=log_path</code>	Provide the path for router log
<code>-plato.services.eureka.uri=http://0.0.0.0:0000</code>	Provide the host name and discovery-service deployed port
<code>--plato.services.discovery.port=0000</code>	Provide the router unique port
<code>--logging.level.reactor.netty=DEBUG</code>	--
<code>--logging.level.org.springframework.cloud.gateway=DEBUG</code>	--
<code>--logging.level.org.springframework.web=DEBUG</code>	--

Sample router deployment sh file content:

```
export JAVA_HOME="/scratch/obpm/jdk-11.0.14" export PATH=$JAVA_HOME/bin:$PATH java
-jar obpm-apigateway-router-9.6.0.jar --plato.services.config.uri=http://ip-address:port --
plato.service.logging.path=/scratch/work_area/logs_router --plato.services.eureka.uri=http://
ipaddress:port --plato.services.discovery.port=5116 --logging.level.reactor.netty=DEBUG --
logging.level.org.springframework.cloud.gateway=DEBUG --
logging.level.org.springframework.web=DEBUG
```

2.2.4 JVM Arguments to Configure

1. Maintain below parameter value in each manage server startup argument list.

"plato.services.discovery.port=managed-server-port"

2. Configure these parameters in the setUserOverride.sh of Weblogic. The values to be updated appropriate for the environment.

Parameters to populate under setUserOverrides File	Comments
LOG_PATH="" export LOG_PATH;	Writes Payments Service Logs
LOGGING_ENV="DEV" export LOG_PATH;	--
APIGATEWAY_HOST="10.10.10.10" export APIGATEWAY_HOST;	Api-gateways service deployed ipaddress to be passes
APIGATEWAY_PORT="port" export APIGATEWAY_PORT;	Api-gateways service target manage server port
PLATO_SERVICES_CONFIG_URI="http://10.10.10.10:port" export PLATO_SERVICES_CONFIG_URI;	Keep plato config service port and ipaddress
PLATO_SERVICES_EUREKA_URI="http://10.10.10.10:port" export PLATO_SERVICES_EUREKA_URI;	Keep plato config service port
PLATO_CONFIG_PORT="port" export PLATO_CONFIG_PORT;	Keep plato config service port
-Dspring.main.allow-circular-references=true	--
-Dplatologging.enabled=Y	Enabling the payment service Level Logs

3. Configure these parameters in the setUserOverride.sh of Weblogic. The values should be altered.

JAVA_OPTIONS="\${JAVA_OPTIONS} -Dmulti.entity.enabled=false"
JAVA_OPTIONS="\${JAVA_OPTIONS} -DflywayTask=migrate -Dflyway.enabled=false"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato.services.config.uri=\${PLATO_SERVICES_CONFIG_URI}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dflyway.domain.placeholders.plato.service.logging.path=\${LOG_PATH}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato.service.logging.path=\${LOG_PATH}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dflyway.domain.placeholders.plato.service.env=\${LOGGING_ENV}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dspring.flyway.enabled=false"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato-config.flyway.domain.locations=dummy"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato-config.flyway.domain.schemas=dummy"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato.services.eureka.uri=\${PLATO_SERVICES_EUREKA_URI}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato.services.config.port=\${PLATO_CONFIG_PORT}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dplato.services.gateway.port=\${APIGATEWAY_PORT}"
JAVA_OPTIONS="\${JAVA_OPTIONS} -Dapigateway.url=\${APIGATEWAY_URL}"

This completes the deployment process.