

WebLogic Server Integration Guide for OPSS
Oracle FLEXCUBE Investor Servicing
Release 14.5.4.0.0
[May] [2022]



Table of Contents

- 1 **WebLogic Server Integration Guide for Oracle Platform Security Services (OPSS) 1**
 - 1.1 *Introduction 1*
 - 1.2 *Prerequisite 1*
 - 1.3 *Create OPSS Schemas using RCU 1*
 - 1.4 *Oracle Fusion Middleware Infrastructure Configuration 1*
 - 1.5 *OPSS Standalone Installation..... 2*
 - 1.5.1 OPSS Standalone - Configure the Credential MAP and KEY 2**
 - 1.6 *OPSS Credentials Setup for IS Installation..... 3*

1 WebLogic Server Integration Guide for Oracle Platform Security Services (OPSS)

1.1 Introduction

Oracle Platform Security Services (OPSS) is a security platform that secures applications deployed on any of the supported platforms or in standalone applications.

Java Authorization (JAZN) functionality includes the Credential Store Framework (CSF), the Common Audit Framework (CAF), Keystore Service, and other components, and combined with SSPI as Oracle Platform Security Services (OPSS).

A Credential Store is used for secure storage of credentials. The Credential Store Framework (CSF) API is used to access and perform operations on the credential store.

The Credential Store Framework:

- ✓ enables you to manage credentials securely
- ✓ provides an API for storage, retrieval, and maintenance of credentials in different back-end repositories
- ✓ supports file-based (Oracle wallet) and LDAP-based credential management

1.2 Prerequisite

- ✓ Oracle Fusion Middleware 12c Infrastructure / WebLogic Server
- ✓ OPSS Generic Installer - for WebLogic Server Installation

Note*: OPSS Generic Installer will be part of Executable Library under OPSS Folder.

1.3 Create OPSS Schemas using RCU

- ✓ Run the repository creation utility under **<ORACLE_HOME>/oracle_common/bin**
- ✓ Choose the create Repository and System Load Option
- ✓ Provide the Database connection details (sys user and password)
- ✓ Under AS Common Schemas, select Oracle Platform Security Services and it will select the dependencies by its own.
- ✓ Follow up the remaining screens to complete the Schema Creation.

1.4 Oracle Fusion Middleware Infrastructure Configuration

- ✓ Map the OPSS Schemas created in above setup during WebLogic Infrastructure installation.
 - ✓ Create a WebLogic Domain with **Basic WebLogic Server Domain [wlserver]**
- Note*: Additional Component Selection is up to the Server Administrator's Choice.

1.5 OPSS Standalone Installation

Skip this step for WebLogic Infrastructure configuration.

- ✓ Set the **JAVA_HOME** & **PATH** variables in the operating systems.
- ✓ Run the OPSS generic Installer.
- ✓ OPSS generic Installer is required separate Middleware Home

Example: if WebLogic server has been installed under /scratch/Oracle/WLS then OPSS can be installed under /scratch/Oracle/OPSS

1.5.1 OPSS Standalone - Configure the Credential MAP and KEY

- ✓ Set the **JAVA_HOME**, **ANT_HOME**, **PATH** and **CLASSPATH** variable for **ant-contrib-1.0b3.jar** variables in the operating systems.
export JAVA_HOME=/scratch/app/jdk1.8.0_xxx/
export ANT_HOME=/scratch/app/apache-ant-x.xx.x/
export CLASSPATH=\$CLASSPATH:/scratch/app/ant-contrib-1.0b3.jar
- ✓ Refer the **<OPSS_HOME>/oracle_common/modules/oracle.jps/bin/README** file for further configuration
Note: **<OPSS_Instance_Dir>** & **<OPSS_HOME>** are the variables, Update it to respective folders.
- ✓ Run below command for creating OPSS Instance
ant -f opss_instance.xml -Dplatform=wls -Dlocation=<OPSS_INSTANCE_DIR> -Dname=<INSTANCE_NAME>
- ✓ Create the **opss.properties** with below content
domain=<INSTANCE_NAME>
admin=adminprefix_OPSS
password=dbpassword
servertype=DB_ORACLE
jpsroot=cn=reassociatedb
jdbcurl=jdbc:oracle:thin:@host:port/SID
jdbcdriver=oracle.jdbc.driver.OracleDriver
path=<OPSS_INSTANCE_DIR>/<INSTANCE_NAME>/config/jps-config.xml
migration=true
command=setSecurityServices
- ✓ Run the **ant -f config_store.xml** to reassociate security services to DB
ant -f config_store.xml -Dprop.path=<PROPERTY_FILE_PATH>/opss.properties
- ✓ Copy **<OPSS_HOME>/oracle_common/modules/oracle.ovd/domain_config/ovd** folder to **<OPSS_Instance_Dir>** created using opss_instance.xml.
- ✓ For OPSS Standalone installation, update the startWebLogic.sh or startWebLogic.bat as below.
Set the CLASSPATH variable like below
CLASSPATH="<OPSS_HOME>/oracle_common/modules/oracle.jps/opss-wls-

manifest.jar: \${CLASSPATH}"

Just above the below line

mypwd="\$(pwd)"

and replace *\${JAVA_HOME}/bin/java \${JAVA_VM} \${MEM_ARGS}
\${LAUNCH_ARGS} -Dweblogic.Name=\${SERVER_NAME}*

with *\${JAVA_HOME}/bin/java \${JAVA_VM} \${MEM_ARGS} \${LAUNCH_ARGS} -
Doracle.security.jps.config=<OPSS_Instance_Dir>/config/jps-config.xml -
Doracle.deployed.app.dir=\${DOMAIN_HOME}/servers/\${SERVER_NAME}/tmp/ -
Doracle.deployed.app.ext=/- -
Dcommon.components.home=<OPSS_HOME>/oracle_common -
Djrf.version=12.2.1 -Ddomain.home=\${DOMAIN_HOME} -
Dweblogic.Name=\${SERVER_NAME}*

1.6 OPSS Credentials Setup for IS Installation

- ✓ Update the **<OPSS_Instance_DIR>** in **fcis_opss_cred_XXXXX.sh** and run the shell script in **<OPSS_HOME>/oracle_common/modules/oracle.jps/bin**
Note : **<OPSS_Instance_DIR>** is **<DOMAIN_HOME>/config/fmwconfig/jps-config.xml** for WebLogic Infrastructure.
- ✓ Goto Admin Console → Environment → Startup and Shutdown Classes → New → Startup Class
Name : **JpsStartupClass**
Class Name : **oracle.security.jps.wls.JpsWlsStartupClass**
- ✓ Click Next and then Select the Required Servers and Click on Finish
- ✓ Restart the servers[Admin, Managed servers]
- ✓ Deploy the FLEXCUBE IS Application in it.



WebLogic Server Integration Guide for OPSS Standalone
[May] [2022]
Version 14.5.4.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

Copyright © 2007, 2022, Oracle and/or its affiliates.

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

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" or "commercial computer software documentation" 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 failsafe, 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.

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.

This software or hardware and documentation may provide access to or information on 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. 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.