Application Server Installation Guide for OPSS - CSF Oracle FLEXCUBE Universal Banking Release 14.0.0.00 [February] [2018]





# **Table of Contents**

Α	APPLICATION SERVER INSTALLATION GUIDE FOR OPSS - CSF	1-1
	•	
1.1	INTRODUCTION	
1.2	CREATE OPSS SCHEMAS USING RCU	1-1
1.3	CREATE WEBLOGIC DOMAIN USING DOMAIN TEMPLATES	1-1
1.5	CONFIGURE CREDENTIAL MAP AND KEY	1-2
	1.1 1.1 1.2 1.3	APPLICATION SERVER INSTALLATION GUIDE FOR OPSS - CSF      1.1    INTRODUCTION      1.1    .Application Server Installation for OPSS - CSF      1.2    CREATE OPSS SCHEMAS USING RCU      1.3    CREATE WEBLOGIC DOMAIN USING DOMAIN TEMPLATES      1.5    CONFIGURE CREDENTIAL MAP AND KEY



## 1. Application Server Installation Guide for OPSS - CSF

## 1.1 Introduction

Before using CSF(Credential Store Framework), you need to do Application server installation for OPSS(Oracle Platform Security Services) set up.

### 1.1 .Application Server Installation for OPSS – CSF

- 1. Create Weblogic Domain with Oracle Enterprise Manager & Oracle JRF templates
- 2. Extend an existing Weblogic Domain with Oracle Enterprise Manager & Oracle JRF templates
- 3. Create schemas using RCU

### 1.2 Create OPSS schemas using RCU

- 1. Run ./rcu from Oracle\_Home/oracle\_common/bin
- 2. Select Create Repository & System load and product load
- 3. Provide database connection details (sys/sysdba user and password)
- 4. Select OPSS
- 5. Provide schema passwords
- 6. Map table spaces
- 7. Click on Create button to complete installation.
- 8. Close

### 1.3 Create Weblogic domain using domain templates

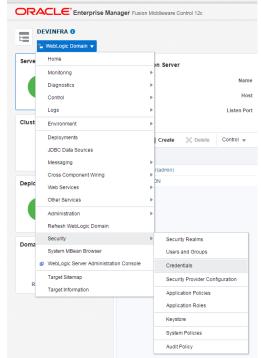
- 1. Select Basic Weblogic Server Domain
- 2. Select Oracle Enterprise Manager
- 3. Select Oracle JRF
  - a. [once we select Oracle JRF , tool selecting Weblogic Coherence Cluster Extension also ]
- 4. Select application location [select default values]
- 5. Select admin account
- 6. Select domain mode & JDK
- 7. Database configuration Types
  - a. Select RCU data
  - b. Enter database connection details using RCU Service table (STB) schema credentials.
  - c. Check / verify the component data sources
  - d. JDBC test
- 8. Adv configuration if required
- 9. Config summary
- 10. Click on create
- 11. Next & Finish

Refer: <u>http://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/12\_2\_1/02-03-002-</u> CreateJRFEMDomain/createjrfemdomain.html#overview



### 1.5 Configure credential MAP and KEY

- 1. Copy the fcubscommonscsf.jar from INSTALLER/SOFT/LIBRARY/ofss to \$DOMAIN\_HOME/lib
- Update the setDomainEnv.sh file (\$MW\_HOME/user\_projects/domains/mydomain/bin directory) by appending the above jar file path –
  EXTRA\_JAVA\_PROPERTIES="\${EXTRA\_JAVA\_PROPERTIES} Dfcubs.csf.path=\${DOMAIN\_HOME}"
- 3. Configure security via em console
- 4. Select Weblogic Domain -> Security -> Credentials. Click Create Map



5. Enter the Map Name: ofss.fcubs.map

#### 6. Click OK.

DRACLE Enterprise Manager Fusion Middleware Control 12:		The WebLogic Domain	* infra122
E DEVINERA O Mitelogic Domain -		Her	11, 2016 11:33:0
Doman_DEVINFRADEVINFRA + Condentais			
Credentials			
credential store in the repository of security data that certifies the authority of entities used by Jana 2, Jana EE, and ADF applications. Applications can use the Credential Store, a project consolidated service provider to store and munage their credentials securely.			
Vex + Create Map + Create Key / Eds X Delets Credential Key Name 🕨 📓 Detach			
Credential	Туре	Description	
No credentais found			
Create Map			
A credential is uniquely identified by a map name and a key name. Typically, the map name corresponds with the name of an application and all credentials with the same map name define a logical group of credentials, such as the credentials used b	y the application. All ma	ap names in a credential store m	ust be distinct.
* Map Name ofis trubs map			
		0	K Cancel

- 7. Create Key button
- 8. Enter the details as below
- 9. Select Map: ofss.fcubs.map



#### Key: SYMMETRIC\_KEY Type: Generic Credentials: *oraclefinancialsolutions* Click OK

Information The credential map, ofss.fcubs.ma	p, has been created.		
omain_DEVINFRA/DEVINFRA > Crede	ntials		
	irity data that certifies the	authority of entities used by Java 2, Java EE, and ADF	applications. App
Credential Store Provider			
	eate Key 🧪 Edit	Credential Key Name	
Credential	Create Key		×
otss.tcubs.map	Select Map	ofss.fcubs.map	
	* Key	SYMMETRIC_KEY	
	Туре	Generic 🔻	
	Description		
		Enter as  Enter map of property name and	value
		text pairs	
	* Credential	oraclefinancialsolutions	

10. Select Weblogic Domain -> Security -> System Policies.

🚹 Infe	Home		
The	Monitoring	Þ	ed.
Domain	Diagnostics		
crede	Control		
creden	Logs		the authority of entities used by Java 2, Java EE, a
Crec	Environment	Þ	
View 1	Deployments		dit X Delete Credential Key Name
Cre	JDBC Data Sources		
►	Messaging		
	Cross Component Wiring		
	Web Services		
	Other Services	•	
	Administration	Þ	
	Refresh WebLogic Domain		
	Security	×	Security Realms
	System MBean Browser		Users and Groups
	WebLogic Server Administration Console		Credentials
	Target Sitemap		Security Provider Configuration
	Target Information		Application Policies
			Application Roles
			Keystore
			System Policies
			Audit Policy



#### 11. Click Create

	er Fusion	Middlew	are Control 12	c		
DEVINFRA O						
/Domain_DEVINFRA/DEVINFRA > System Polici	es					
System Policies						
System policies are the system-wide policies app To manage users and groups in the WebLogic				-		
Policy Store Provider						
Select a grant type and enter search keyword for codebase or principal to query system security grants.						
Ту	/pe Cod	ebase		•		
Na	me Star	ts With	-		•	
View 👻 🎽 Create	🥖	Edit	🗙 Delete			
1						
Name						
No security policies found.						



13. Code	ebase: file <mark>:\${fcubs.csf.path}/lib/fcubscommonscsf.jar</mark>
ORAC	CLE' Enterprise Manager Fusion Middleware Control 12c
	INFRA 🚺 lebLogic Domain 👻
/Domain_DEVI	NFRA/DEVINFRA > System Policies > Create System Grant
Create Sy	stem Grant
There are two or absolute path or	lifferent types of system policies supported by application server: principal policy and codebase policy. Principal policy gra r relative path.
Grant To	Codebase 🔻
* Codebase	file:\${fcubs.csf.path}/lib/fcubscommonscsf.jar
Permissions	
View 💌	+ Add / Edit X Delete 📄 Detach
Permissi	on Class
No permission	ns added.

- 14. Click Add. select checkbox "Select here to enter details for a new permission"
- 15. Provide below details



Permission Class: oracle.security.jps.service.credstore.CredentialAccessPermission Resource Name: context=SYSTEM,mapName=ofss.fcubs.map,keyName=\* Permission Actions: read

ORACLE Enterprise Manager Fusion Middleware Control 12c						
/Domain_DEVINFRA>EVistem Policies > Create System Grant						
Create System Grant						
-	I policy and codebase policy. Principal policy grants permissions and privileges to a list of users or roles. Code					
Grant To Codebase V						
Codebase file:\${fcubs.csf.path}/lib/fcubscommonscsf.jar						
Permissions						
Add Permission						
Select from permissions and resources used in system policies of this domain. Enter searc	h criteria to search for right permissions.					
▲ Search						
Туре	Codebase 🔻					
Name						
Permission						
Search Results						
Name Type Permission						
No permissions found.						
Select here to enter details for a new permission $\ensuremath{\mathbb{Z}}$						
* Permission Class	oracle.security.jps.service.credstore.CredentialAccessPermission					
Resource Name	context=SYSTEM,mapName=ofss.fcubs.map,keyName=*					
Permission Actions	read					

#### 16. Click on Ok for Add Permission and System policies.

ORACLE Enterprise Manager Fusion Middleware Control 12c		🔁 WebLogic Domain 👻 intra1221 👻 🚥
E DEVINFRA 0 Netcopic Domain +		Mer 11, 2006 11:44-41 AM IST 🖒
Information  A new security grant has been added successfully.		×
Doman_DDVINFRADEVINFRA > System Policies		
System Polices are the state-address applied to all applications deployed to convert nanagement domain. You can grant special permissions and privileges to principal or codebase. If its measage uses and groups in the Welk.opt Domain, use the <u>Cance Mercel Results Percelar</u> .		
Policy Store Provider		
al Search		
Select a grant type and enter search keyword for codebase or principal to query system security grants.		
Type Codebase •		
Name Includes • caf		
View + 🗑 Create Like 🖉 Edt 🗶 Delete		📴 📓 Detach
e e		
Name		
The \$(f)cubs.csf.path)/fibit ubscammonast[ar		
# Permissions for Codebase: file:\${fcubs.csf.path}/libifcubscommonscsf.jar		
Resource Name	Permission Actions	Permission Class
context=SYSTEM mapName=ofts:fcuds.map.keyName=*	read	oracle security jps service credistore Crede

#### 17. click OK for create System Grant

18. Restart the servers[Admin, Managed servers]





Application Server Installation Guide for OPSS - CSF [February] [2018] Version 14.0.0.0

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 https://www.oracle.com/industries/financial-services/index.html

Copyright © 2007, 2018, Oracle and/or its affiliates. All rights reserved.

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 installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. 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.