Application Server Installation Guide for OPSS - CSF Oracle Banking ELCM Release 14.4.0.0.0 [Apr] [2020]



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# **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.

.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



## 1.4 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

	DEVINFRA 🕕	
	🛓 WebLogic Domain 🔻	
Serve	Home	n Server
	Monitoring	•
	Diagnostics	▶ Na
	Control	
	Logs	▶ Listen F
Clust	Environment	Þ
	Deployments	Create X Delete Control
	JDBC Data Sources	
	Messaging	- +
	Cross Component Wiring	r(admin)
Deplo	Web Services	DN .
	Other Services	Þ
	Administration	Þ
	Refresh WebLogic Domain	
Doma	Security	Security Realms
Doma	System MBean Browser	Users and Groups
	WebLogic Server Administration Console	Credentials
	Target Sitemap	Security Provider Configuration
R	Target Information	Application Policies
		Application Roles
		Keystore
		System Policies
		Audit Policy

- 5. Enter the Map Name: ofss.fcubs.map
- 6. Click OK.

OR/		prise Manager Fo	sion Middleware C	Control 12c						🔠 WebLogic Domain 👻	infra122
	EVINFRA O	v								Mar 11,	1, 2016 11:33:0
	DEVINFRADEVINFRA										
Creder	ntials										
	al store is the repositor Initial Store Provider	ry of security data that i	certifies the author	nity of entities i	used by Java 2, Java EE, and ADF application	ns. Applications	can use the Credential Store, a single, consolidated service p	rovider to store and manage their credentials secur	ety.		
View +	+ Create Map	+ Create Key	/ Estt X	Delete_	Credential Key Name	E F	n Detach				
Crede	ential								Туре	Description	
No creder	ntials tound.										
	Create Map										
	10.000000000000000000000000000000000000						ion and all credentials with the same map name define a logi		a too and a second second second		
	A credential is uni	quely identified by a m	iap name and a ke	ry name. Typic	* Map Name offers trubs map	ne of an applicat	on and all credentials with the same map hame define a log-	ai group or credentiais, such as the credentials use	to by the application. All that	p names in a credencal store mus	st be distinct.
										ок	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.map	, has been created.			
omain_DEVINFRA/DEVINFRA > Creden				
redentials			and the laws D laws FF and M	
redential store is the repository of secur Credential Store Provider	ity data that certilies the	authority of entitle	s used by Java 2, Java EE, and AL	or applications, Applic
/iew 👻 🕂 Create Map 🕇 Cre	ate Key 📝 Edit	🗙 Delete	Credential Key Name	
Credential				
ofss.fcubs.map	Create Key			×
	Select Map	ofss.fcubs.map	T	
	* Key	SYMMETRIC_K	EY	
	Туре	Generic 🔻		
	Description			
		Enter as	<ul> <li>Enter map of property name and</li> </ul>	nd value
			pairs	
	* Credential	oraclefinancials	olutions	

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



🚺 Inf		Home		
The		Monitoring	Þ	ed.
omain <u>.</u>		Diagnostics	►	
rede		Control	₽	
creden ▶ Crec		Logs	Þ	the authority of entities used by Java 2, Java EE,
Clet		Environment	Þ	
View 1		Deployments		dit 🗙 Delete Credential Key Name
Cre		JDBC Data Sources		
Þ		Messaging	Þ	
		Cross Component Wiring	►	
		Web Services	Þ	
		Other Services	Þ	
		Administration	Þ	
		Refresh WebLogic Domain		
		Security	Þ	Security Realms
		System MBean Browser		Users and Groups
	ø	WebLogic Server Administration Console		Credentials
		Target Sitemap		Security Provider Configuration
		Target Information		Application Policies
				Application Roles
				Keystore
				System Policies
				Audit Policy

#### 11. Click Create

ORACLE <sup>®</sup> Enterprise Manager F	usion Middle	ware Control 12c		
DEVINFRA O				
/Domain_DEVINFRA/DEVINFRA > System Policies				
System Policies				
System policies are the system-wide policies applied To manage users and groups in the WebLogic Don				
Policy Store Provider				
Search				
Select a grant type and enter search keyword for code	ebase or princ	cipal to query sys	tem security grants.	
Туре	Codebase		*	
Name	Starts With	•	•	
Name				
View View Create Like				

### 12. Enter Codebase

ORACLE Enterprise Manager Fusion Middleware Control 12c	🛐 WebLogic Domain 🔻 🛛 Inita'i	221 🔻 🚥
EEVINFRA O	Mor 11, 2016 11:4	1:40 AM IST 🕹
/Domain_DEVINFRA/DEVINFRA > System Policies > Create System Grant		
Create System Grant	(	Cancel
There are two different types of system policies supported by application server: principal policy and codebase policy. Principal policy grants permissions and privil absolute path or relative path.	ages to a list of users or roles. Codebase policy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can t	e either
Grant To Codebase *		
* Codebase		
Permissions		
View 💌 🕂 Add 🥒 Edit 💥 Delete 📓 Detach		
Permission Class	Resource Name Permission /	Actions
No permissions added.		

#### 13. Codebase: file:\${fcubs.csf.path}/lib/fcubscommonscsf.jar

ORACLE Enterprise Manager Fusion Middleware Control 12c						
DEVINFRA O						
/Domain_DEVINFRA/DEVINFRA > System Policies > Create System Grant						
Create System Grant						
There are two different types of system policies supported by application server: principal policy and codebase policy. Principal policy gra absolute path or relative path.						
Grant To Codebase 🔻						
* Codebase file:\$(fcubs.csf.path)/lib/fcubscommonscsf.jar						
Permissions						
View 🔻 🕂 Add 🖉 Edit 💢 Delete 🔚 Detach						
Permission Class						
No permissions 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			
E DEVINFRA O			
/Domain_DEVINFRA/DEVINFRA > System Policies > Create System Grant			
Create System Grant			
There are two different types of system policies supported by application server: princip absolute path or relative path.	al policy and codebase policy. Principal policy grants permissions and privileges to a list of users or roles. Code		
Grant To Codebase 🔻			
* Codebase file:\${fcubs.csf.path}/lib/fcubscommonscsf.jar			
Permissions			
Add Permission			
Select from permissions and resources used in system policies of this domain. Enter sea	rch 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 $\ {\ensuremath{\mathscr C}}$			
* 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 👻 Inta1221 👻 🚥
DEVINFEA 0		Mer 11, 2016 11:44:41 AM 157 €
Information     A new security grant has been added successfully.		8
Domain_DEVINFRADEVINFRA > System Policies		
System Policies System policies are the system-inde policies applied to all applications desloyed to current management domain. You can grant special permissions and privilegies to principal or codebase. Pol managui sense and growps in the Webuck policies. The state and the state and the system and		
Policy Store Provider		
# Search Select a grant type and enter search leywood for codebase or principal to guery system security grants.		
Type Codesae   Kame Includes   code of the		
Vier v 📲 Create 🖹 Create Like 🗡 Edit 🗙 Delete		🖙 🔛 Detach
2		
Name		
tie Şitules cel patri/Autrulescentmonestijar		
# Permissions for Codebase: file:\$(fcubs.csf.path)/iib/fcubscommonscsf.jar		
Resource Name	Permission Actions	Permission Class
context=SYSTEM.mapName=dbs.dcube.mapXayName=1	read	oracle security jps service credstore Crede

17. click OK for create System Grant

18. Restart the servers[Admin, Managed servers]





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