Application Server Installation Guide for OPSS - CSF Oracle FLEXCUBE Universal Banking Release 14.4.0.3.0 [February] [2021]



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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 0		
	🖕 WebLogic Domain 🔻		
Serve	Home		n Server
	Monitoring	Þ	JII Server
	Diagnostics	Þ	Na
	Control	Þ	Н
	Logs	Þ	Listen
Clust	Environment	Þ	
	Deployments		Create X Delete Control
	JDBC Data Sources		
	Messaging	Þ	
	Cross Component Wiring	Þ	r(admin)
Deplo	Web Services	Þ	NC
	Other Services	Þ	
	Administration	Þ	
	Refresh WebLogic Domain		
Doma	Security	Þ	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.

ORACLE' Enterprise Manager Fusion Middleware Control 12:		The WebLogic Domain v infra1221
E DEVINEA 0		Mar 11, 2016 11:33:02
IDemain_DEVINFRADEVINFRA > Credentials		
Credentials A network to be the construction of security data that certifies the authority of entities used by Java 2, Java EE, and ADF applications. Applications can use the Credential Bone, a single, consolidated service provider to store and manage their credentials security.		
View + Create Map + Create Key / Edit X Delete Credential Key Name 🕨 🛣 Detach		
Credential	Туре	Description
No credentals 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 by	the application. All mos	a names is a sendential stars must be distinct
A setema is unque, vennes y a may name and any name i prane, i prane, venna vin tenane vin a appravio avi en an setema an une and name denne a logica grupp undeenaal, sun a ne deemaa setup * Map Name (distruction map)	ule application. An map	names in a credencal sure must be distinct.
		OK Cancel

- 7. Create Key button
- 8. Enter the details as below



# 9. Select Map: ofss.fcubs.map Key: SYMMETRIC\_KEY

Type: Generic

Credentials: oraclefinancialsolutions ( OK

Information     The credential map, ofss.fcubs.map,	has been created.			
Domain_DEVINFRA/DEVINFRA > Credenti	als			
Credentials credential store is the repository of security Credential Store Provider	/ data that certifies the	authority of entities	used by Java 2, Java EE, and /	ADF applications. Appl
	te Key 🥢 Edit	🗙 Delete	Credential Key Name	
Credential ofss.fcubs.map	Create Key			×
	Select Map * Key Type Description	ofss.fcubs.map		
	* Credential		Enter map of property name airs	and value
	OK Cance			



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

	5	WebLogic Domain 🔻			
1 Inf		Home			
The		Monitoring	•	ed.	
Domain <u>.</u>		Diagnostics	Þ		
Crede		Control	Þ		
creden	Logs		the authority of entities used by Java 2, Java EE		
Crec		Environment	Þ		
View 1		Deployments		dit 🗙 Delete Credential Key Name	
Cre		JDBC Data Sources			
- F		Messaging	Þ		
		Cross Component Wiring	Þ		
		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

	Fusion Middle	ware Control 12	2	
DEVINFRA O				
/Domain_DEVINFRA/DEVINFRA > System Policies				
System Policies				
System policies are the system-wide policies applied Po manage users and groups in the WebLogic Dor				
Policy Store Provider				
▲ Search Select a grant type and enter search keyword for cod Type	lebase or prin Codebase	cipal to query sys	stem security grai	nts.
Name	Starts With	•		•
View 🔻 🎽 Create	🥖 Edit	🗙 Delete		
1				
Name				
No security policies found.				



#### 12. Enter Codebase

ORACLE Enterprise Manager Fusion Middleware Control 12c	WebLogic Domain v infra1221 v
E DEVINITA O	Mar 11, 2016 11:41:40 AM IST
Domain_DEVINFRA/DEVINFRA > System Policies > Create System Grant	
Create System Grant	OK Cance
There are two different types of system policies supported by application server: principal policy and codebase policy. Principal policy grants permissions and privileges to a list of users or roles. Codebase policy grants permissio absolute path or relative path.	ns and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be 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					
La WebLogic Domain 💌					
/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 assolute 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: princ absolute path or relative path.	ipal 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 se	arch criteria to search for right permissions.
▲ Search	
	e Codebase
Тур	e Codebase v
Nam	e
Permissio	n 🕨
Search Results	
Name Type Permission	
No permissions found.	
Select here to enter details for a new permission 🖉	
* Dermission Clas	s oracle.security.jps.service.credstore.CredentialAccessPermission
Permasion citas	oracle.security.jps.service.credstore.oredentualAccessFermission
Resource Nam	e context=SYSTEM,mapName=ofss.fcubs.map,keyName=*
Permission Action	s read

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

ORACLE Enterprise Manager Fusion Middleware Control 12c		The WebLogic Domain V Infra1221 V
DEVINERA 0		Mer 11, 2016 11:44:41 AM IST 👈
Information     A new security grant has been added successfully.		æ
Domain_DEVINFRADEVINFRA > System Policies		
System Policies System Policies System Policies System policies and policies applied to all applications deployed to current management domain. You can grant special permissions and philepes to principal or codebase. Policy Syste Provider A Serch Select a grant (se and enter search levyord for codebase or principal to query system security grants. Type Codebase		
Name Incluses • of  Vew v I Croste. E. Vote.		🕞 📓 Detach
4		
Name		
file S(trubs.cstpath)lib/trubscommonscsf(ar		
A Permissions for Codebase: file:\${fcubs.csf.path}lib/fcubscommonscsf.jar		
Resource Name	Permission Actions	Permission Class
context=SYSTEM.mapName=0tss.fcube.map.ier/Name=*	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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