## Application Server Installation Guide for OPSS - CSF Oracle FLEXCUBE Universal Banking Release 12.87.7.0.0 [May] [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, vennas num en ante vi an apprador ani an an setema and ne name denne a logica grupp un setema an estema a set of * 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* Click OK

Information The credential map, ofss.fcubs.map,	has been created.		
Image: Comparing the second		authority of entities used by Java 2, Java EE, and	ADF applications. Applicati
	ate Key 🧪 Edit	X Delete Credential Key Name	
Credential ofss.fcubs.map	Create Key		×
	Select Map * Key Type Description	ofs.fcubs.map v SYMMETRIC_KEY Generic v	
	* Credential	Enter as      Enter map of property name text     pairs  oraclefinancialsolutions	and value

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



t	DEVINERA () ■ WebLogic Domain ▼		
1 Inf	Home		
The	Monitoring	•	ed.
Domain <u>.</u>	Diagnostics	Þ	
rede	Control	Þ	
Creden	Logs	Þ	the authority of entities used by Java 2, Java EE, a
P Cree	Environment	Þ	
View 1	Deployments		dit 🗙 Delete Credential Key Name
Cre	JDBC Data Sources		
Þ	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
	WebLogic Server Administration Console		Credentials
	Target Sitemap		Security Provider Configuration
	Target Information		Application Policies
			Application Roles
			Keystore
			System Policies
			Audit Policy

11. Click Create

ystem policies are the system-wide policies applied to all applications deployed to current management domain. N PTo manage users and groups in the WebLogic Domain, use the <u>Oracle WebLogic Server Security Provider</u> . Policy Store Provider	View 👻 🎽 Create					•
WeeLogic Domain      WeeLogic Domain		Name	Starts With	<b>'</b>		•
WebLogic Domain      Operation      Constant      Constant      Devine FRADEVINERA > System Policies     System Policies     System Policies     vistem policies are the system-wide policies applied to all applications deployed to current management domain.      To manage users and groups in the WebLogic Domain, use the <u>Oracle WebLogic Server Security Provider     Policy Store Provider     Search     lelect a grant type and enter search keyword for codebase or principal to query system security grants. </u>						
WebLogic Domain      Operating DeVINFRA-DEVINFRA > System Policies      System Policies      system policies are the system-wide policies applied to all applications deployed to current management domain.      To manage users and groups in the WebLogic Domain, use the <u>Oracle WebLogic Server Security Provider</u> Policy Store Provider      Search		Туре	Codebase		•	
WebLogic Domain      Contain_DEVINFRA-DEVINFRA > System Policies      System Policies      tystem policies are the system-wide policies applied to all applications deployed to current management domain.      Yo manage users and groups in the WebLogic Domain, use the <u>Oracle WebLogic Server Security Provider</u>	Select a grant type and enter se	earch keyword for cod	ebase or princi	pal to query sys	tem security gra	nts.
t ₩ WebLogic Domain ▼ Domain_DEVINFRADEVINFRA > System Policies System Policies system policies are the system-wide policies applied to all applications deployed to current management domain.	Policy Store Provider					
t ■ WebLogic Domain ↓ Domain_DEVINFRADEVINFRA > System Policies System Policies						
E WebLogic Domain 👻	System Policies	unide collector constant	4U			
	Domain_DEVINFRA/DEVINFR	A > System Policies				
	L	n 🔻				

12. Enter Codebase

	nain 🔻 infra1	1221 🔻
Create System Cr	Mar 11, 2016 11:41	1:40 AM IST
There are two different types of synthet types of synthet by application server principal policy and codebase policy. Principal policy grants permissions and privileges 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 syste and privileges 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 syste and privileges 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 syste and privileges 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 syste and policy policy and codebase to policy and codebase policy. Principal policy grants permissions and privileges 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 syste and policy policy and codebase to a codebase policy. Principal policy grants permissions and privileges to a list of users or roles. Codebase policy grants permissions and privileges to a list of users or roles. Codebase policy grants permissions and privileges to a list of users or roles. Codebase to a lis		
abrolute path or relative path Grant To Codebase • *Codebase • Permissions	0	OK Car
* Codebase Permissions	. Codebase can b	e either
Permissions		
View • + Add / Edit. / Delste. ] Delste.		
Permission Class Resource Name	Permission A	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	
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.	bal 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	
TMILE.	
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	KebLogic Domain	v infra1221 v ····
DEVINERA O	Mar	11, 2016 11:44:41 AM IST ℃
Information     A new security grant has been added successfully.		×
IDomain_DEVINFRADEVINFRA > System Policies		
System Policies Sudam policies este system-vide policies applied to al aportation solopied to current management domain. You can grant apecial permissions and privileges to principal or codebase. 9To manage uses and groups in the Wellogic Domain, use the <u>Datas Vellocus Servic Service Terroris</u>		
Policy Store Provider		
# Search Select a grant type and enter search leyword for codebase or principal to query system security grants.		
Type Codebase •		
Name Includes • est		
View v 📲 Create Like 🖉 Efett 💥 Delete		🖙 🔛 Detach
1		
Name		
file \${fbubs.cstpath}{lbbrubscommonscstjar		
# Permissions for Codebase: file:\${fcubs.csf.path}fib/fcubscommonscsf.jar		
Resource Name	Permission Actions Permission Clas	s
context=SYSTEM_mapName=otss.fcube_mapXeyName=*	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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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/

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