# Oracle FLEXCUBE Core Banking

Oracle FLEXCUBE-CORE Host Installation Guide (Application Server)

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# Introduction

This guide is helpful for initial setup of WebLogic (12c) – version 12.1.2. BEA WebLogic server which is an enterprise-ready java EE application server that supports the deployment of mission critical application in a robust, secure, highly available and scalable environment. WebLogic is an ideal foundation for building applications based on Service Oriented Architecture (SOA).

# **Base System Configurations**

## Hardware

Here we strongly suggest you to verify your target installation machine's environment and make sure it meets the minimum hardware requirement as specified below

CPU: 1.0 GHz Hard Disk: 5GB free space Memory: 1GB free Network: 100M Ethernet connection

# **Operating Systems**

FLEXCUBE-CORE Host applications were built on Java technology. It supports multiple operating systems. You can run host system on

Oracle Linux or RedHat Enterprise Linux

Here, as a default system environment, we have certified installing and running FLEXCUBE-CORE host. We guide you through every step to install on an oracle linux machine as a sample.

# **Pre-Requisites**

The pre-requisites required for installing FLEXCUBE-CORE host via OUI is given below :

- 1. An admin user needs to be created on the host machine via which the OUI will be run. Please make sure that the machine on which the OUI is being run has no previous instances of FLEXCUBE-CORE installed to ensure a clean run.
- 2. JDK 1.7\_80 must be installed on the host machine.
- 3. WebLogic (12c) version **12.1.3** must be installed on the host machine, having the above mentioned JDK 1.7\_80 as its java home during installation.
- 4. To enable remote connection between host server machine and local machine, we need a software like VNC viewer (freeware and recommended) or Xmanager in order to access the remote host installer machine and get UI for the installer during installation. (It is assumed that user has the software installed on his machine (VNC viewer recommended) and is well conversant in using the same). Refer to appendix point 5.5)Remote server connection using VNC viewer for guidance to connect to host installation machine
- 5. Please ensure that the language support for Chinese is enabled at time of OS installation

Note : The admin user should be used install both JDK1.7\_80 and WebLogic (12c) so that during installation, OUI will have full access to all Weblogic and JDK files and folders.

For all the above mentioned pre-requisites, please contact your System Administrator .

# **Host Installation**

# Acquire FLEXCUBE-CORE Host Installer Distribution

You can get FC CORE host installer distributed version over the network or on a CD/DVD. The FC CORE host installer runs with graphic user interface to make the customer configuration of FC CORE host on local environment easy.

Please make sure you acquire the correct installation version for your operation system. The FLEXCUBE-CORE host installer supports the following OS

Unix Linux

# Launch Installer

Note : To run the OUI, you may need a user interface software VNC viewer to be run first so as to export the display to the local machine where the user can see all the screens properly.

Please note that some of the above software may need license for installation. Please contact your system administrator for the same.

Go to your user home directory(where all rights are present), e.g. /home/fcradm, then copy the host installer(oui\_linuxX86) and put it under this path The host installer will be present within Relarea\_Encrypted at the below path in the Installation zip file: Relarea\_Encrypted\flexcube\install\OUI\Host\oui\_linuxX86\

Once the installer is copied onto your home directory in the host machine , we need to provide the complete rights to the oui\_linuxX86 folder for the administrator user being used for installation. For this , log into your host machine via Winscp and navigate to the directory where the installer is copied.

Right Click on oui\_linuxX86 folder and click on properties.

bome - oracle@ofss310	642 - WinSCP		-	And in case of	a la cata	-				-	Strength Stre					x
Local Mark Files Com	mands <u>S</u> essi	on <u>O</u> ptions <u>R</u> em	iote <u>H</u> elp													
🌒 🖗 🌚 🕶 😤 📽	📀 🔤 🛃	8 🗄 🖃	<b>4 0 C</b>	Default	- 3	- I										
📲 C: System 🔹 🔹	<b>← →</b> →	🖻 🕅 🚮 💆	🔄 🔁					🚹 home		• + +	🗟 👻 🔁	🚮 📝 🏺	l te			
C:\Users\tuprakas\Desktop							/s	cratch/oracle	/home							
Name Ext	Size	Туре	Chan	Attr			^ N	lame E	xt			Size	Changed	Rights	Owner	1
强		Parent directory	9/24/2014	r			1	·					9/24/2014 5:37:34 PM	rwx	oracle	
퉬 UBS		File folder	9/23/2014					oui_linuxX	86			_	9/23/2014 12:37:41 PM	rwx	oracle	
鷆 New folder		File folder	9/23/2014							Open						
퉬 DIVYA		File folder	9/23/2014						1	Edit						
퉬 Docs		File folder	9/22/2014							Conv	F5					
510_testing		File folder	9/18/2014							Duplicate	Chiffe, ES					
ubs_SYNONYM		File folder	9/18/2014							Dupilcate	511111+15					
퉬 bkp		File folder	9/17/2014							Move	Fb					
퉬 11.5DOCs		File folder	9/16/2014							Move to	Shift+F6					
11.5_DOCS		File folder	9/10/2014						$\mathbf{X}$	Delete	F8					
퉬 expense		File folder	9/9/2014 1						<b>P</b>	Rename	F2					
🔰 WAS		File folder	9/9/2014 1							Custom Con	nmands 🕨	1				
🍌 Hitesh		File folder	8/13/2014							File Namer						
🍌 checkout		File folder	7/31/2014							The traines		-				
퉬 deploy		File folder	7/25/2014						<u>ت</u>	Properties	F9					
퉬 Pisql latest		File folder	7/9/2014 2						_			-				
🍌 logs		File folder	7/3/2014 5				=									
510_DOCS		File folder	6/22/2014													
Flexcube_11.5		File folder	6/17/2014													
Preferences		File folder	5/23/2014													
Oracle FLEXCUBE-CO	4,166,144	Microsoft Offic	9/24/2014	а												
Sacle FLEXCUBE-CO	162	Microsoft Offic	9/24/2014	ah												
MachineAgent-3.9.2.1	12,018,100	zip Archive	9/24/2014	a												
IC14_1.txt	290	Text Document	9/24/2014	a												
~WRL0001.tmp	4,166,144	TMP File	9/23/2014	h												
Oracle FLEXCUBE-CO	3,496,448	Microsoft Offic	9/22/2014	а												
Environment_Details (	133,120	Microsoft Offic.	9/19/2014	а												
Combobox.ini	90	Configuration	9/18/2014	а												
aaa.csv	114,640	Microsoft Offic	9/18/2014	а												
Par.csv	114,040	Microsoft Offic	9/18/2014	a												
15 VINC-5.2.1-Windows.e	12,775,600	Application	9/16/2014	a												
	152,008	Microsoft Offic.	9/12/2014	a												
Oracle FLEXCOBE Pay	0,844,928	Microsoft Offic.	9/5/2014 5	a -												
Supervisionment Details vis	126.076	Microsoft Offic	9/9/2014	a												
Notopadu u lak	1 092	Shorteut	5/27/2014 J	a												
autlock extensions se	11 162 076	Application	5/23/2014	a 2												
deskton ini	. 11,102,570	Configuration	5/23/2014	ach												
Didain Ink	030	Shortcut	5/22/2014	3												
FileZilla 373 win32-c	4 812 567	Application	4/16/2014	a												
Xmar4 1.exe	32 050 232	Application	2/7/2013 1	a			-									
0 B of 101,767 KB in 0 of 46							0 6	B of 0 B in 0 o	f 1							
🔐 🕫 F2 Rename 📝 F4 Edit	E 📑 F5 Copy	/ 🕞 F6 Move 📺	F7 Create Direct	tory 🗙 F8 Dele	te 💣 F9 Prop	oerties 👖 F	10 Qui	it								
Display/change properties of se	elected file(s)															
📀 🧐 🕻				3		1	C:5			£ (			' 📑 💽	- 😼	()) 5:42 Pl 9/24/20	VI 14

Change the permissions , by setting '0777' in the "Octal" entry for permissions.

Next check the "Set group, owner and permissions recursively" box.

0	ui_linuxX86 Pro	operties ? X				
ſ	Common					
		oui_linuxX86				
	Location:	/scratch/oracle/home				
	Size:	Unknown Calculate				
l						
	Group:	dba 👻				
	Owner:	oracle				
l	Permissions:	Owner R W W X Set UID				
H		Group 🔽 R 🔍 W 🔍 X 📄 Set GID				
H		Others VRVVX Sticky bit				
H		0 <u>c</u> tal 0777				
		Add X to directories				
	Set group, owner and permissions recursively					
		OK Cancel <u>H</u> elp				

## Click OK.

Once the above permissions have been given, you can launch the start up screen with the following steps:

Connect to the remote host machine using VNC viewer (steps to connect given in appendix 5.5) Go to admin user home path (e.g./home /fcradm) in VNC console(which will be present in the Admin Users Home folder) .Navigate to the host installer folder (oui\_linuxX86).

Applications Places Sy	ystem 🙋 🥸 🗹		🔁 🗐	Wed Sep 24, 5:58 PM	oracle
6		oracle			– • ×
<u>File Edit View Places He</u> l	lp				
bea	home iew <u>P</u> laces <u>H</u> elp	_ = ×		fcubsiks	
oui_linu:	xX86				
Flexdiv		oui linuxX86	Flexsep4	home	
Music	<u>File Edit View Place</u>	s <u>H</u> elp	2	oui_linuxX86_fcr	
			*		
oui_linuxX86	oui_linu install	stage	runInstaller	Templates	
test oui ubs uk	be inst			# .ba # Get if [	
s	screens			bash_prome	
# D0 # Add bashrc bas	∉ #umas # # Add shrc-DE			cshrc-DEFAUIT old	
	inuxX86 🗸 "runlı	nstaller" selected (4.3 KB)			
/scra	;; Re ;; Ar (defv	# # Exa #			
currpath	emacs nohup.ou	ut screenrc			
🗟 oracle 🗸 "FlexDiv3" selecte	ed (containing 16 items)				
VNC config	🔝 oracle	📋 home	📋 oui_linuxX86		

Double click on the runInstaller file to start the installation of FLEXCUBE-CORE host. Click on 'Run'.

		×
?	Do you want to run "runInstaller", or display its contents?	
	"runInstaller" is an executable text file.	
Run in	Terminal Display Cancel Run	

Just wait for a while, the installation wizard will appear and will guide you through the steps to install FLEXCUBE-CORE Host on your machine.

#### 1. Welcome screen

You should see the welcome message on first screen. Just click Next

	FLEXCUBE®
Welcome	
The Oracle Universal Installer guides you through the i your Oracle products.	nstallation and co <b>nfigurat</b> ion of
Click "Installed Products" to see all installed products	
	Deinstall Products
ORACLE"	About Qracle Universal Installer
APPLICATIONS Help Installed Products Back Ne	ext Install Cancel

Click on Next Button

#### 2. Specify Inventory directory and credentials

You should keep the default directory that is automatically present in the OUI, and confirm it exists.

After that , click next.

Note : This screen may not appear if your inventory directory has already been defined during a previous OUI run.

😹 🛛 Oracle Universal Installer: Spe	cify Invent	ory directo	ry and cred	entials _ ×
			FL	EXCUBE®
Specify Inventory directo	ory and	credenti	als 🖌	
You are starting your first installation on this directory for installer files. This is called the installer automatically sets up subdirectorie consume typically 150 Kilobytes per produ	s host. As part e "inventory dir is for each pro ict.	of this install, ectory". Within duct to contain	you need to spe the inventory di inventory data	cify a rectory, the and will
Enter the full path of the inventory directory	7.			
/home/fcradm/oralnventory				Bro <u>w</u> se
You can specify an Operating System group You can leave the field blank if you want to Specify Operating System group name:	) that has write perform the a	permission to bove operation	the above inver s as a Superuse	itory directory. er.
fcradm				
Help Installed Products	Back	Next	( [nstall	Cancel

#### 3. Select Installation Type

In this screen, you have two options for configuring FLEXCUBE-CORE Host components.

Only choose the complete option to completely deploy all FLEXCUBE-CORE host applications on new domain..



Click on Next.

## 4. Specify Oracle Home Details

Keep the entries which are present by default in the OUI screen as it self-assigns the ORA\_HOME path .

	<b>FLEXCUBE</b> <sup>®</sup>
Specify Home Details	
Destination Enter or select a name for the installation and the full path where you w	ant to install the product.
Name OraClient11g_home1	
Path: /home/fcradm/app/fcradm/product/11.2.0/client_1	Browse
ORACLE"	
Applications           Help         Installed Products         Back         Next	) Install Cancel

Click Next.

#### 5. Locate JDK Home

Specify JDK home path from your local environment. You can use file browser to locate JDK home directory.

Please contact your system administrator for Directory Path details

Oracle Universal Installer: Locate JDK Home	_ ×
	<b>FLEXCUBE</b> ®
Locate JDK Home	
Please set home path of the installation of JDK 1.6 or above	
Directory Path	Browse
ORACLE	
Help Installed Products Back Next In	istali Cancel

Directory Path: JDK installation path, one level up from bin folder .

Eg. If path of bin folder of JDK is : /mnt/devops\_0/weblogic/home/jdk1.7\_80/bin , then the corresponding JDK home to be defined in the OUI is : /mnt/devops\_0/weblogic/home/jdk1.7\_80

Click Next.

#### 6. Locate Weblogic Server Home

Specify Weblogic server home path of your host environment. You can use file browser to locate the Weblogic server home directory Please contact your system administrator for Directory Path details

👷 🛛 Oracle Universal Installer: Locate Weblogic Se	rver Home _ ×
	FLEXCUBE <sup>®</sup>
Locate Weblogic Server Home	
Please set home path of the installation of Weblogic Server	
Directory Path	Browse
ORACLE"	
APPLICATIONS Help Installed Products Back Next	[Install Cancel

Directory Path: Weblogic installation Path, and must point to /wlserver directory.And this Weblogic path is used by single FC CORE Host. Eg. /scratch/home/weblogic/Oracle/Middleware12c/Oracle\_Home/wlserver

#### 7. Choose FLEXCUBE-CORE Host Home Directory

Specify FLEXCUBE-CORE host home path. Make sure you have rights to write in its parent directory if this home directory does not exist.

Please contact your system administration team for the Path

	FLEXCUBE <sup>®</sup>
Choose Flexcube Host Home Directory	
Directory Path (home (foradm (flexcube	
, noncy creating nexcase.	DĮUWSE
APPLICATIONS Help Installed Products Back Next (Inst	all Cancel

Click Next to continue.

#### 8. Database Connection

Please specify host database connection here.

Please contact your DBA team for the required values.



Database Host: IP of Database Server. IP address is preferred.

Database Port: Database Listen port.

Database SID: Database Service Instance.

Database User Name: Host User Name of Database.

Database Password: Host User Password of Database.

Click Next to continue.

#### 9. Weblogic Domain Configuration

Please specify weblogic domain administrator user name and password, FLEXCUBE-CORE host domain name and port numbers here. Make sure your domain admin password has **at least 8 characters** with more than one numeric or special character. Please contact your System administration team for the required values

💥 🛛 Oracle Univ	ersal Installer: Weblogic Domain Configuration	_ ×
	FLEXCU	JBE <sup>®</sup>
Weblogic Doma	ain Configuration	
Create new domain	n for Flexcube host server	
* Password must be at leas	st 8 characeters long with numeric or special characters	
Admin Server User	fcradm	
Admin Password	******	
Admin Server Host	localhost	
Admin Server Port	7001	
New Domain Name	fcrHost	
Admin Server Name	AdminServer	
Managered Server Name	FlexcubeEnterpriseServer	
	8001	
Help Installed	Products Back Next Install Car	ncel

Admin Server User: Weblogic Admin Name.(The string just should include [a-zA-Z0-9] characters, and the name should be exclusive.) Admin Password: Password of Weblogic Admin.(The string just should include [a-zA-Z0-9] characters, and the name should be exclusive.) Admin Server Host: Weblogic Server IP.(localhost is preferred.)

Admin Server Port: Weblogic Admin Port.( Every FC CORE Host must have own Admin Server Port. And it must be exclusive.) New Domain Name: Domain Name.

Admin Server Name: Admin Server Name. (The string just should include [a-zA-Z0-9] characters, and the name should be exclusive.) Managed Server Name: Managed Server Name.(The string just should include [a-zA-Z0-9] characters, and the name should be exclusive.) Managed Server Port: Managed Server Port. (It must be exclusive.)

Then click Next.

Note : Make sure that the ports(Admin Server Port and Managed Server Port )you define here is free. You can take these free port numbers from your system administrator or can check it yourself by using below mentioned command on the host machine via putty. \$netstat -tulpn | grep <port no>

Where <port no> is the port value that needs to be checked.

P weblogic@ofss220123:~/UBS_installer/oui_linuxX86	ui.		x
(Not all processes could be identified, non-owned pr	ocess info		~
will not be shown, you would have to be root to see	e it all.)		
weblogic@of <u>ss2</u> 20123:/mnt/devops 0/weblogic/home/UBS	<pre>installer/oui linuxX86#</pre>	netstat -	tul
pn   grep (8021)			
(Not all processes could be identified, non-owned pr	cocess info		
will not be shown, you would have to be root to see	it all.)		
tcp 0 0 ::ffff:127.0.0.1:8021 :::*		LISTEN	
9954/java			
tcp 0 0 fe80::216:3eff:fe33:9f:8021 :::*		LISTEN	
9954/java			
tcp 0 0 ::1:8021 :::*		LISTEN	
9954/java			
tcp 0 0 ::ffff:10.184.133.33:8021 :::*		LISTEN	
9954/java			
weblogic@ofss220123:/mnt/devops_0/weblogic/home/UBS_	installer/oui_linuxX86#	netstat -	tul
pn   grep 8051			-
(Not all processes could be identified, non-owned pr	cocess info		-
will not be shown, you would have to be root to see	it all.)		
weblogic@ofss220123:/mnt/devops_0/weblogic/home/UBS_	installer/oui_linuxX86#		-

Here if you get details of the port where it is used as seen in the above example for port no 8021, then the port is in use.

And if we do not get any details about the port as seen in the above example for port no 8051, then the port is unused.

#### **10. Branch Database Connection**

Please specify Branch database connection here.

Please contact your system adminstration team for the required values



Database Branch: IP of Database Server. IP address is preferred.

Database Port: Database Listen port.

Database SID: Database Service Instance.

Database User Name: Branch User Name of Database.

Database Password: Branch User Password of Database.

Entity Code: Entity Code of Database.

Click on Next button

#### **11. JMS Server Configuration**

The JMS Server name and JMS Resource for FLEXCUBE-CORE are specified here.

Keep the entries the same as those which are present by default in the OUI screen.

🗽 Oracle Universal Installer: Web	logic JMS Configuration	
		FLEXCUBE®
weblogic JMS Co	nfiguration	
Create new JMS Serve	r And Resource for Flexcube host se	rver
Flexcube FCR JMS Server	FCBJMSServer	
Flexcube FCR JMS Resource	FCBJMSSystemResource	
Help Installed Pro	iducts Back Next Ins	tall Cancel

Click Next to continue

#### 12. Weblogic Node Configuration

Please specify the Node Server Port here. And confirm Node Server Port has never been used and ranges from 5560 to 5700. Then click Next.

	Oracle Universa	l Installer: Weble	ogic Node C	Configuration	_ ×
Web I Create	ogic Node Cor Node Mananager	i <mark>figuration</mark> Server		FLEX	CUBE®
Node St	erver Port 5560				
	NS Installed Produc	s Back	Next		Cancel

Node Server Port: Node Listen Port. (Every FC CORE Host must have own Node Server port. And it must be exclusive.)

Click Next.

Note : Make sure that the port you define here is free. You can take these free port numbers from your system administrator or can check it

yourself by using below mentioned command on the host machine via putty.

\$netstat -tulpn | grep <port no>

Where <port no> is the port value that needs to be checked.



Here if you get details of the port where it is used as seen in the above example for port no 8021, then the port is in use.

And if we do not get any details about the port as seen in the above example for port no 8051, then the port is unused.

#### 13. Branch Sever IP

Please specify Branch Server Machine IP and the branch code here.

Please contact your system administration team for the ip address

😹 🔹 Oracle Universal Installer: Branch Serve	r Machine Configuration _ ×
Branch Server Machine Configurat Branch Server Machine IP and Port	FLEXCUBE®
Branch Server IP Branch Code	
Help Installed Products Back	Next [nstall Cancel

Then click Next

Note : The branch code should be the same as given during RCU run.(9999 in case bootstrap is being run)

#### **14. XFACE Installation**

Select Yes if you want to install the host units of Customizable XFACE and No to proceed with regular CORE installation.



Then click Next

#### **15. RCCU Installation**

Select Yes if you want to install the host units of the RCCU setup and No to proceed with regular installation.



Then click Next

#### **16. Choose Messaging Provider**

FLEXCUBE-CORE Host supports multiple messaging providers.

Here Weblogic Queue is selected by default and the same is to be used for host installation via OUI.

Oracle Universal Installer: Choose Messaging Provi	der _ ×
	FLEXCUBE®
Choose Messaging Provider	
Please choose one of the following messaging providers	
OWeblogic Queue	
Weblogic JMS Queue	
QAQ	
Oracle Advanced Queuing *Please enable AQ service and setup Flexcube gueues on oracle database server	
la de la companya de	
Help Installed Products Back Next Ins	tall Cancel

#### 17. Summary

In the summary screen, you can review the host installation. Click Install to start installation and configuration.



#### 18. Install

After a while, depending on your machine's performance, the host installation and new weblogic domain configuration will be finished. You

can click "Stop installation..." button to terminate anytime.

Note : Once the installation is stopped, it will not resume from point at which installation was stopped but will restart the installation.

	FLEXCUBE
Install	
Installing Hexcube Core Banking Host Application 1.0.0.0.0	
🖌 Deinstall successful	
Installation in progress	Ideal Platform for
Link pending.	Grid Computing
Setup pending	
Configuration pending.	Low cost servers and storage
copying 'AppEntrySp Jar'	Highest availability
10%	
Stop installation	Best scalability
You can find the log of this install session at: /home/fcradm/app/oralnventory/logs/installActions2011-11-11_05	-05-23PM.log
ORACLE"	
Help Installed Products Back Ne	xt ) (Install ) Cancel

#### 19. End of Installation

Just click Exit to finish.



After installation, you must execute : nohup sh start\_fcr.sh & in putty from your source home . eg : /home/fcradm/FLEXCUBE510

This will start up both the Admin and the FC-CORE managed server.

# To verify this, after executing the above command launch the Weblogic console by typing the host domain admin URL in the address bar.

E.g. http://10.184.133.33:7001/console, where 10.184.133.33 is the host machine ip address and 7001 is the admin server port.

After a while, you should see the login screen. Type in admin username and password you just set. Click Login



## Now go to Environment>Servers,

	RACLE WebLogic Server Administration Console 12c							
Change Center	Home Log	Out Preferences 🔤 Record Help	٩				Welcome, weblo	gic Connected to: FCR511TE
View changes and restarts	Home >Sumn	ary of Servers						
Configuration editing is enabled. Future changes will automatically be activated as you	Summary of S	Servers						
modify, add or delete items in this domain.	Configuratio	on Control						
Domain Structure	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.							
E-Environment Deployments	This page su	This page summarizes each server that has been configured in the current WebLogic Server domain.						
Lti-Services	52							
⊕-Interoperability ⊕-Diagnostics	Customiz	e this table						
	Servers (F	Servers (Filtered - More Columns Exist)						
	New	Clone Delete					Showing	1 to 2 of 2 Previous   Next
	🔲 Nam	e 🗞	Туре	Cluster	Machine	State	Health	Listen Port
	Admin	Server(admin)	Configured		WLSHost	RUNNING	✓ OK	8117
How do I	E Flexa	ubeEnterpriseServer	Configured		WLSHost	RUNNING	🖋 ОК	8119
Create Managed Servers     Clone servers	New	Clone Delete					Showing	1 to 2 of 2 Previous   Next
Delete Managed Servers								
Delete the Administration Server     Start and stop servers								

Both the Admin Server and the FCR Managed Server(FlexcubeEnterpriseServer in the above case) should be in RUNNING state.

# **Post Installation**

## **AES Password Encryption related changes**

The current 5.1.0 installers make use of AES encryption .

The following steps are required for proper implementation of AES and must be done :

**a.**)Change in jdk security jars:

Go to the security folder in the jdk home(JDK1.7 folder). Eg.

/scratch/home/webapp/jdk1.7.0\_45/jre/lib/security on the host machine.



Here we need to replace the 2 jars **US\_export\_policy.jar** and **local\_policy.jar** with the jars available at the following link : <u>http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html</u>



Click on Accept License Agreement and then click on UnlimitedJCEPolicyJDK7.zip.

After extracting contents of the downloaded zip file, replace the 2 jars present in security folder with the newly extracted **US\_export\_policy.jar** and **local\_policy.jar**.

**b.**) Restart the Weblogic app server via start\_fcr.sh script once the above changes are done, as mentioned in section 5.3(**Restart via start up shell script**)

Once Flexcube Enterprise server is in running state, the AES changes will automatically get implemented in the property files.

# Logs of WebLogic and FLEXCUBE-CORE

<u>Weblogic server logs :</u> On Linux, go to directory E.g. /home/fcradm/FLEXCUBE/Flex\_Domain/servers/ FlexcubeEnterpriseServer/logs

Where "Flex\_Domain" is the domain name and "FlexcubeEnterpriseServer" is the Managed Server name as defined in section 4.2 in step 9.

At this path, FlexcubeEnterpriseServer.log will be present. This file will have all logs related to deployments of the FLEXCUBE applications

## FLEXCUBE-CORE logs

The FLEXCUBE-CORE logs are created at the following path by above mentioned convention : /home/fcradm/FLEXCUBE/logs This folder will contain the following sub-folders , all containing separate logs : fcrjlog fcrjdebug branch fcrjxfacelog audit fcrjbatchlog

Along with these folders, you also have logs present outside the folders. These are : StartManageredServer.log outboundwebserviceExceptionlog.txt hibernateExceptionlog.txt fcrjperformancelog.txt fcrjaxislog.txt StartAdminServerLog.log StartNodeManagerLog.log

For entity specific logs, a folder with the name the same as the entity code, is created having a folder called logs within it. Eg. /home/fcradm/FLEXCUBE /1/logs This folder will have the following sub folders containing logs : fcrjdebug fcrjlog fcrjbatchlog audit

**Note**: If the entity code is something different than 1, we need to update the file /home/fcradm/FLEXCUBE/runarea/env/config/properties/log4j.xml Replace 1 with the entity code you want to give in the following sections(and their subsections) in log4j.xml(replace 1 with desired entity in all the log4j entries within the section) :

#Application Specific Logging #Logging for BAnk0 with entity code -1 #CLASS-SPECIFIC LOGGING LEVELS -1 Entity Eg.

log4j.category.-240.BATCH=DEBUG,-240.BATCH.BatchExceptionlog log4j.additivity.-240.BATCH.com.iflex.fcr.bh.batch=false log4j.appender.-240.BATCH.BatchExceptionlog=org.apache.log4j.RollingFileAppender log4j.appender.-240.BATCH.BatchExceptionlog.File=\${fc.log.dir}/logs/fcrjbatchlog/BatchExceptionlog.txt log4j.appender.-240.BATCH.BatchExceptionlog.layout=org.apache.log4j.PatternLayout log4j.appender.-240.BATCH.BatchExceptionlog.layout.ConversionPattern=%d %t %p [%c] %m%n log4j.appender.-240.BATCH.BatchExceptionlog.MaxFileSize=3000KB log4j.appender.-240.BATCH.BatchExceptionlog.MaxBackupIndex=10

Here 240 is the desired entity code, which replaced the default entity code, '1'.

# Launch Domain Admin Server

Open a web browser and type the host domain admin URL in the address bar.

E.g. http://10.184.133.33:7001/console, where 10.184.133.33 is the host machine ip address and 7001 is the admin server port.

After a while, you should see the login screen. Type in admin username and password you just set. Click Login



Verify Host Deployments

Go to >**Deployments**, you should see all FLEXCUBE-CORE host application deployed on this domain server. Please verify deployment list and see if anything missing and health are all OK.

File Edit View Favorites Tool	He	ip .					
Environment	firs To	selecting the application name and using the controls on this page. install a new application or module for deployment to targets in this domain, click the Install b	utton.				
-Clusters	D.C.	atomics this table					
Work Managers	P Cu	stonize this table					
Deployments	Dep	oloyments					
Services	lin	stall Update Delete Start * Stop *				Showing	1 to 24 of 24 Previous   Ne
Interoperability		Name 🐵	State	Health	Туре	Targets	Deployment Order
"Diagnostics		🗈 💽 AlertWeb	Failed		Web Application	FlexcubeEnterpriseServer	100
w do I 🖂		B Tanch	Active	🖋 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
Install an enterprise application		GCHNAppxServices	Active	🛩 ок	Web Application	FlexcubeEnterpriseServer	100
Configure an enterprise application		FCRJavaBranchWeb	Active	🛩 ок	Web Application	FlexcubeEnterpriseServer	100
Start and stop a deployed enterprise		TRECRUBatch	Active	🖋 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
application		E E CRIChanala	Artive	2 OK	Enterprise Application	FlevruheEnterpriseServer	100
application			Activo	e ok	Enterprise Application	ElevenheEnterpriseServer	100
Deploy EJB modules			Active	w or	Enterprise Application	FlexenbeEnterpriseServer	100
Install a web application		E CCRUGETUProcessor	Active	V UK	Enterprise Application	FlexcubeEnterpriseServer	100
stem Status 🖃		Control C	Active	✓ OK	Enterprise Application	FlexcubeEnterpriseServer	100
alth of Running Servers		E FCRJGLPosting	Failed		Enterprise Application	FlexcubeEnterpriseServer	100
Failed (0)		E      FCRJMNT	Active	🖋 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
Overloaded (0)		H CFCRJOLTP	Active	🖋 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
Warning (0) OK (2)		E FCRJReport	Active	🖉 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
		E  FCRWebservices	Active	🛩 ок	Web Application	FlexcubeEnterpriseServer	100
		🗈 🛅 Fileupload	Active	🖋 ОК	Enterprise Application	FlexcubeEnterpriseServer	100
		The State Sta	Active	🔔 Warning	EJB	FlexcubeEnterpriseServer	100
			Active	🔺 Warning	EJB	FlexcubeEnterpriseServer	100
		NeftOutTxnMDB	Active	Å Warning	EJB	FlexcubeEnterpriseServer	100
		PaymentsControllerMDB	Active	A Warning	EJB	FlexcubeEnterpriseServer	100
		Transinacetimation	Active	A Warning	EJB	FlexcubeEnterpriseServer	100
			Active	A Warning	EJB	FlexcubeEnterpriseServer	100
			Active	A Warning	EJB	FlexcubeEnterpriseServer	100
		StaticBrowWab	Active	2 OK	Web Application	ElevruheEnterpriseServer	100
			Antice	* OK	Web Application	FlaveubaEnterpriseServer	100
		O IransactionLogviewer	Active	• OK	web Application	riexcubechterpriseserver	100
	lin	stall Update Delete Start + Stop +				Showing	1 to 24 of 24 Previous   Ne
bLogic Server Version: 12.1.2.0.0 syright © 1996,2013, Oracle and/or its affiliates. All	ights res	erved.					
scle is a registered trademark of Oracle Corporation a	nd/or its	affiliates. Other names may be trademarks of their respective owners.		V			

# **Shutdown and Restart**

#### Shutdown

Go to Environment>Servers, then click Control tab. Choose fcrHostServer1(admin) from the list and click Shutdown to open a drawdown

menu. Click "When work completes" to shutdown host domain server.

ORACLE WebLogic Server® Administration Console							
Change Center	🙆 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of Servers >Summary of Deployments >Summary of JDBC Data Sources >fcrHostPoolXA >Summary of JDBC Data Sources >fcrHostDataSources >f	ource >					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of servers       Configuration     Control						
Domain Structure							
fcrHost	Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Nod administration port.	le Mana					
Clusters	<b>4</b> 5						
Virtual Hosts Migratable Targets Coherence Servers Coherence Clusters	Customize this table 3 Servers (Filtered - More Columns Exist)						
Machines Work Managers	Start Resume Suspend Shutdown V Restart SSL						
Startup and Shutdown Classes Deployments	Server         When work completes         Machine         State						
	AdminServer(admin) WLSHost RUNNING						
How do I	FlexcubeEnterpriseServer 2 WLSHost RUNNING						
Start and stop servers     Start Managed Servers from the     Administration Console	Start Resume Suspend V Shutdown V Restart SSL						
<ul> <li>Start Managed Servers in Admin mode</li> </ul>							

Start Host Domain

#### Data Source:

Click on Services option in the Domain Structure and goto : Services→Data Sources

Su	ummary of JDBC Data Sources									
C	Configuration Monitoring									
	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source. This page summarizes the JDBC data source objects that have been created in this domain.									
۹ ۲	Customize	this table s (Filtered - More Columns Exist)								
	New Delete Showing 1 to 2 of 2 Previous   Next									
	Name	à	Туре	JNDI Name	Targets					
	branch	-	Generic	idhr/hranchds	Elevru beEnterpriseSenver					

	Name 🚕	Туре	JNDI Name	Targets
	branchds	Generic	jdbc/branchds	FlexcubeEnterpriseServer
	fcrHostDataSource	Generic	jdbc/fcrHostDataSource	FlexcubeEnterpriseServer
Nev	V Delete			Showing 1 to 2 of 2 Previous   Ne

#### JMS Server:

Click on Services option in the Domain Structure and goto : Services →Messaging→JMS Servers

🚹 Home Log Out Preferences 🔤	Record Help	Q	Welcome, fcradm02	Connected to: fcrHos				
Home >Summary of Servers >Summar	y of JMS Servers >Summary of JDBC Data	Sources >Summary of JMS Servers						
Summary of JMS Servers								
JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain. Customize this table JMS Servers (Filtered - More Columns Exist)								
New Delete			Showing 1 to 1 of	1 Previous   Next				
Image: Name ↔         Persistent Store         Target         Current Server         Health								
FCBJMSServer     FlexcubeEnterpriseServer     FlexcubeEnterpriseServer								
New Delete Showing 1 to 1 of 1 Previous   Next								

Click on Services option in the Domain Structure and goto : Services→Messaging→JMS Modules

#### JMS Modules

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

#### Customize this table

#### JMS Modules

New Delete Showing 1 to 1 of				
	] Name 🗞	Туре		
	FCBJMSSystemResource	System		
N	New Delete Showing 1 to 1 of 1 Previous   Next			

#### Customize this table

Summary of Resource

New	Delete Staving 1 to 24 of 24 Previous   Next				
	Name 🗠	Туре	JNDI Name	Subdeployment	Targets
	FCBBatchFrameQ	Queue	jms/FC88atchFrameQ	FCBSubDeployment	FCB3MSServer
	FCBBatchQM	Connection Factory	jms/FCBBatchQM	Default Targetting	RexcubeEnterpriseServer
	FCBBatchRequestQ	Queue	jms/FCBBatchRequestQ	FCBSubDeployment	PC8JMSServer
	FCBBatchResponseQ	Queue	jms/FCBBatchResponseQ	FCBSubDeployment	PC8JMSServer
	FCBBatchShellQ	Queue	jms/FCBBatchShellQ	PCBSubDeployment	PCBJMSServer
	FCBChannelQM	Connection Factory	jms/FCBChannelQM	Default Targetting	FlexcubeEnterpriseServer
	FCBChannelRequestQ	Queue	jms/FCBChannelRequestQ	PCBSubDeployment	PC8JMSServer
	FCBChannelResponseQ	Queue	jms/FCBChannelResponseQ	PCBSubDeployment	PC8JMSServer
	FCBEnterpriseServiceQM	Connection Factory	jms/FCBEnterpriseServiceQM	Default Targetting	RexcubeEnterpriseServer
	FCBGefuRequestQ	Queue	jms/FCBGefuRequestQ	PCBSubDeployment	PCBJMSServer
	FCBGefuResponseQ	Queue	jms/FCBGefuResponseQ	FCBSubDeployment	PCBJMSServer
-	FCBGPostingQ	Queue	jms/FCBGIPostingQ	FCBSubDeployment	PCBJMSServer
	FCBGPastingQM	Connection Factory	jms/FCBGIPastingQM	Default Targetting	RexcubeEnterpriseServer
	FCBOItpQM	Connection Factory	jms/FCBOItpQM	Default Targetting	RexcubeEnterpriseServer
	FCBOItpRequestQ	Queue	jms/FCBOItpRequestQ	FCBSubDeployment	PCBJMSServer
	FCBOItpResponseQ	Queue	jms/FCBOItpResponseQ	FCBSubDeployment	PC8JMSServer
	FCBReportsQM	Connection Factory	jms/FCBReportsQM	Default Targetting	FlexcubeEnterpriseServer
	FCBReportsRequestQ	Queue	jms/FCBReportsRequestQ	FCBSubDeployment	PCBJMSServer
	FCBReportsResponseQ	Queue	jms/FCBReportsResponseQ	FCBSubDeployment	PCBJMSServer
	FCBRPTReportQM	Connection Factory	jms/FCBRPTReportQM	Default Targetting	RexcubeEnterpriseServer
	FCBSchedularQM	Connection Factory	jms/FCBSchedularQM	Default Targetting	RexcubeEnterpriseServer
	FCBSchedularRequestQ	Queue	jms/PCBSchedularRequestQ	FCBSubDeployment	FCBJMSServer
	FCBServiceRequestQ	Queue	jms/FCBServiceRequestQ	FCBSubDeployment	FCBJMSServer
-	FCBServiceResponseQ	Queue	jms/FCBServiceResponseQ	FCBSubDeployment	FCBJMSServer
New	Binowing 1 to 24 of 24 Previous   Next				

#### Restart via start up shell script :

1.Log into linux machine as admin user.

2.Go to FLEXCUBE-CORE host home directory(where the startup shell script " start fcr.sh" is present) in putty via the cd command.

E.g: cd /home/fcradm/FLEXCUBE

3. Type the command below to start host domain server again

\$nohup sh start\_fcr.sh &



4.Launch admin console

Open the following URL in a web browser.

E.g. http://10.182.115.8:7001/console, where "10.182.115.8 is the host ip address and 7001 is the admin server port.

Type domain admin username and password to login as defined in Section 4.2, Step 9.

## 5. Testing publish of FLEXCUBE-CORE host

Open the following URL in a web browser.

E.g. http://10.182.115.8:8001/FCRJBranch/HTTPListener	
🔗 http://10.182.115.8:8001/FCRJBranch/HTTPListener - Windows Internet Explorer	
COC - 10.182.115.8:8001/FCRJBranch/HTTPListener	*
File Edit View Favorites Tools Help	
X O McAfee'	
🔶 Favorites 🛛 🚔 🧰 APAC Sales and Consulting	
Attp://10.182.115.8:8001/FCRJBranch/HTTPListener	
You are hitting Branch Servlet	

6. Launching the Java Branch console

Open the following URL in a web browser

E.g. <u>http://10.182.115.8:8001/FCRJavaBranch/dashboard.jsp</u>, where "10.182.115.8 is the host ip address and 8001 is the Flexcube Enterprise Server port.

	8119/FCRJavaBranch/dashboard.jsp	e Flexcube Core Banki ×	n 🖈 🌣
X 🛛 McAfee' 🖉 🔻			
0			-
		Cédemo Bank	
		_	
		Login User Name :	
		Password : Login	
	Oracle FLEXCUBE Core Banking 5.1.0.0.0 Copyright 🔶 2005 , 2013	, Oracle and/or its affiliates. All rights reserved	

Login with a user id present in the table sm\_user\_profile and its corresponding password .

Note : You will be able to login only after the installation of FLEXCUBE-CORE branch on the windows server and complete installation of the database(objects+data).

## Remote server connection using VNC viewer

Run below mentioned command on host machine putty.

\$vncserver

P weblogic@ofss220123:/			
weblogic@ofss220123:/# keytool -genkeypair -alias selfcert -keyalg RSA -keysize			
1024 -sigalg SHA1withRSA -validity 365 -keystore /mnt/devops_0/weblogic/home			
Enter keystore password:			
Re-enter new password:			
What is your first and last name?			
[Unknown]: ^C			
weblogic@ofss220123:/# vncserver			
New Jofas220123.9 (weblogic) / deaktop is ofas220123.9			
New Disszedies.s (webiodic) desktop is disszedies.s			
Starting applications specified in /mnt/devops 0/weblogic/home/.vnc/xstartup			
Log file is /mnt/devops 0/weblogic/home/.vnc/ofss220123:9.log			
weblogic@ofss220123:/#			

Here vncserver will ask you for a password. You can give any string value as password (remember the password as it will be required later).

Make a note of the highlighted server detail as seen in the screenshot above. This detail will be required while connecting to remote machine from local machine.

Now run VNC viewer at local machine and provide the VNC server details as shown in the screenshot below

V2 VNC Viewer	
VNC® Viewer	<b>V</b> S
VNC Server: ofss220123:9	•
Encryption: Let VNC Server choose	•
About Options	Connect

Connect to the server machine.

Now enter password (password which was set at host machine in above steps)

V2 VNC View	er - Authentication
VNC Server:	ofss220123::5909
Username:	
Password:	••••••
	OK Cancel

You will be connected to the remote host server machine as shown below.

Computer Weblogic's Home			
Flexcube_UB5	Image: second secon	Authenticate , attentication is required to set the stream of the set of the	× ve
[VNC config]	) 🔍 Authenticate	📓 Save Screenshot	

Now follow the steps as given in Section 4.2.