## Deploying Oracle FLEXCUBE Investor Servicing Application on WebSphere Oracle FLEXCUBE Investor Servicing Release 14.4.0.0.0 [July] [2020]

FINANCIAL SERVICES



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# 1. Deploying Oracle FLEXCUBE Investor Servicing on WebSphere

### 1.1 Introduction

This document explains the steps to deploy the Oracle FLEXCUBE IS application on IBM WebSphere application server.

## 1.2 **Deploying Application**

### 1.2.1 FCIS Application Deployment

To deploy Oracle FLEXCUBE IS application on WebSphere application server, you need to follow the steps given below:

1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL: <u>http://{Host}:{Port}/ibm/console</u>.

Eg: https://10.10.10.10/ibm/console

In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:

	WebSphere, softwa		WebSphere Integrated Solutions Console	
	IBM.	Licensed Material Rights Reserved. registered traden many jurisdictions trademarks of IB available on the 1	s - Property of IBM (c) Copyright IBM Corp. 1997, 2011 All IBM, the IBM logo, ibm.com and WebSphere are trademarks or narks of International Business Machines Corp., registered in worldwide. Dther product and service names might be W or other companies. A current list of IBM trademarks is web at <u>Copyright and trademarks</u> . Information.	
, ,				

- 2. Enter the user name and password and click 'Log In' button to log in to the application server.
- 3. WebSphere Home Page will get launched.
- 4. Expand Applications and Click 'New Application' option.



The following screen is displayed.

WebSphere. software		Welcome saravanan		IBM.
View: All tasks 🗸	Cell=ofss220239Node01Cell, Profile=FPCFL			Close page
Welcome	New Application			E
Guided Activities	This page provides links to create new application	a of different types.		
± Servers	Install a New Application	of different types		
Applications      New Application     Application Types      Global deployment settings	New Enterprise Application			
	New Business Level Application			
± Environment	New Asset			
Monitoring and Tuning				
± UDDI				
4				

5. Click 'New Enterprise Application' option. The following screen is displayed:

wroephore, sortware		Welcome infra	Help Logout 18.
View: All tasks •	Enterprise Applications		Close page
Welcome	Preparing for the application installation Specify the EAR, WAR, JAR, or SAR module to upload and install.	7	Field help
Servers     Applications     Maplication     Maplication     Maplication     Maplication     Maplications     Maplicatio	Path to the new application Coal file system Full path Bourse Remote file system Put path Entropy Bourse Browne		Pope information about this past
ti Services	Next Cancel		
in Kesources			
n security			
Sustan administration			
t Users and Groups			
Monitoring and Tuning			
* Troubleshooting			
Service integration			
1000 E			

6. Browse the application EAR file and click 'Next'.



The following screen is displayed.

WebSphere, software	Welcome saravanan Help   Logout	IBM.
View: All tasks 🔻	Enterprise Applications	Close page
Welcome	Preparing for the application installation	2 =
⊕ Guided Activities     ■	- How do you want to install the application?	
Applications	Fast Path - Prompt only when additional information is required.	
New Application	O Detailed - Show all installation options and parameters.	
Application Types		_
Services	Choose to generate default bindings and mappings	
	Previous Next Cancel	
E Security		
Environment		
Monitoring and Tuning		
Troubleshooting     ■     Troubleshooting     ■		
E Service integration		
∃ UDDI		



7. Click 'Next'. The following screen is displayed.



- 8. Enter the Application Name. This should be the application name mentioned as part of EAR building.
- 9. Click 'Next'.





10. Check all the options. Click 'Next'. The following screen is displayed. Specify the details as shown:

During property file creation, if insulation adapter is applicable, then the following screen will be displayed:

WebSphere. software						Welcome infra	Help   Logout		
View: All tasks		-							
Welcome	1g enter	prise ap	plications and modu	es.					
Guided Activities		Rind li	stanger for mass	aga drivan baans					
Servers		bind is	steners for messa	ige-uriven beans					
Applications New Application		Each message-driven enterprise bean in your application or module must be bound to a listener port name or to an activation specification JNDI name. When a message-driven enterprise bean is bound to an activation specification JNDI name you can also specify the destination JNDI name and authentication alias.							
Application Types		± Ap	ply Multiple Mapping	S					
<ul> <li>WebSphere enterprise applications</li> </ul>			6						
<ul> <li>Business-level applications</li> <li>Assets</li> </ul>		Calast	Madula	Pasa	110.1	Messaging hung	Listenes Bindings		
<ul> <li>Global deployment settings</li> </ul>		Select	EC1Scheduler inc	EMSIgMDB	EC1Scheduler iar META-	iavay ime Massanal istonor	caverier billungs		
			resocreduler.jar	CMOTIMOD	INF/ejb-jar.xml	Javaxijinsimessagetisterier	Listener port		
services							Name EmsIn Listened		
Resources									
Security							C Activation Specification		
Environment							Target Resource JNDI Name		
System administration									
Users and Groups							Destination JNDI name		
Monitoring and Tuning									
Troubleshooting							ActivationSpec authentication alias		
Service integration									
UDDI			FcisMDBAdapter.jar	CIFCreationMDBListener8ean	FeisMDBAdapter, jar, META- INF/ejb-jar.xml	javax.jms.MessageListener	Listener port     Name     CIFCreationMDBListener     Activation Specification     Target Resource JNDI     Name     Destination JNDI name     ActivationSpec     authentication slias		
	icel								

If insulation adapter is not applicable, then the following screen will be displayed:

WebSphere. software						Welcome in	nfra Help   Logout ]	IBM												
View: All tasks 👻							Clos	se pa												
Welcome	Install New Application							2 -												
E Guided Activities	Specify options for install	ng enterp	rise applications	and module	s.															
E Servers	Step 1 Select	Bind li	steners for mes	sage-driv	en beans															
Applications	installation options	-																		
New Application     Application Types     WebSphere enterprise applications     Business-level applications	Step 2 Map modules to servers → Step 3: Bind	Step 2         Map modules to servers         Each message-drive enterprise bean in your application or module must be specify the destination JNDI name, when a message-driven enterprise bean is bound specify the destination JNDI name and authentication alias.           →         Step 3: Bind					istener port name or to an activation on specification JNDI name you can also	5												
Assets	message-driven		0																	
<ul> <li>Global deployment settings</li> </ul>	beans	Select	Module	Bean	URI	Messaging type	Listener Bindings													
± Services	Step 4 Map virtual		FCJScheduler.jar	EMSInMDB	FCJScheduler.jar,META-	javax.jms.MessageListener														
Resources	hosts for Web				INF/ejb-jar.xml		Listener port     Name													
Security	meanies																		EMSIn_listener	
Environment	<ul> <li><u>Step 5</u> Metadata</li> <li>for moduler</li> </ul>						C Activation Specification	1												
System administration	tor modules						Target Resource JNDI Name													
★ Users and Groups	Step 6 Summary																			
Monitoring and Tuning							Destination JNDI name	- 1												
Troubleshooting							ActivationSpec authentication													
E Service Integration							alias	-												
. UDDI								1												



11. Click 'Next'. Following screen is displayed

Views All tasks •				Close pag
Welcome	Install New Application		7 F	Help
± Guided Activities	Specify options for installing	g enterprise applications and modules.		Field help For field help information.
	Rep.1 Select Installation options Rep.1 Select Installation options Rep.1 for Rep.1 for	Hap virtual hosts for Web module Specify the virtual host for the Web modules are even hosts. Apply Multiple Mappings Betst Web module Flex.CubeCorporate	Sodules that are contained in your application. Imm virtual host or disperse them among           Virtual host           default_host	Hor field information. Imarker when the help curred is displayed. Page help More information about the Alage

12. Click 'Next'.

The following screen is displayed.

Views All tasks 👻					Close pag
	Install New Application			2 1	Help
Welcome	Specify options for installing	entermine application	and modules		Field help
Servers	Stan 1 Select	Metadata for mor	lules	1	select a field label or list
Applications	installation options	The could for more		Provide and the second	is displayed.
New Application     Application Types     WebSphere enterprise applications     Besidescribed andications	<u>35ep 2</u> Map modules to servers <u>Step 3</u> Dind isteners for	module is complete persist annotation- metedata to avoid read. If the attribut scanned each time	Page help More information about this page		
# Assets	message-driven beans	0.0			
Global deployment settings	Step 4 Map virtual	Module	URI	metadata-complete	
Resources	modules	FCJGeneralEJB.jar	FCIGeneralEI8.jar.META-INF/ejb-		
Schedulers     Object pool managers	<ul> <li>Step 5: Retadata for modules</li> </ul>	FCISMS.jar	FCJSMS.jar.META-INF/ejb-jar.xml	2	
JMS	<u>Step 6</u> Summary	FCJBatch.jar	FGJBatch.jar.META-INF/ejb-jar.xml		
E Resource Adapters		FCServiceEJ8.jar	FCServiceEJ8.jar.META*INF/ejb* jar.xml	8	
Asynchronous beans     Cache instances		FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb- jar.xml	8	
i Mail R uni		FlexCubeCorporate	FCJNeeWeb.war,WEB-INF/web.xml	8	
B Resource Environment	Previous   Next   Cance	al			
Security					
Environment					
System administration					
Users and Groups					
Monitoring and Tuning					
Troubleshosting	1				
Service integration					
	and the second se				



Click next. The following screen is displayed:

Welcome	Install New Application			0.00.00
* Welcome	Install New Application			19705
				HHID
# Guided Activities	Specify options for installing	enterprise applications and modules.		Field help For field help information
T Servera	Sten 1 Select	Summary		select a field label or list
- Analizations	installation options	Summery		is displayed.
* New Application	Step 2 Map	Summary of installation options	Table Control of Contr	Page help
Application Types	modules to servers	Options	Values	More information about this
<ul> <li>WebSphere enterprise applications</li> </ul>	Step 3 fund	Precompile JavaServer Pages files	No	Dada.
# Business-level applications	listeners for	Directory to install application	1	Command Assistance
= Assets	beans	Distribute application	Yes	command for last action
<ul> <li>Global deployment settings</li> </ul>	Step 4 Map virtual	Use Binary Configuration	No	
* Services	hosts for Web	Deploy enterprise beans	No	
Resources	modules	Application name	FCISApp	
= Schedulers	Step 5 Metadata	Create MBeans for resources	Yes	
<ul> <li>Object pool managers</li> </ul>	for modules	Override class reloading settings for Web and EJB modules	No	
IB 3MS	-> Step 0: Summary	Reload interval in seconds		
10BC		Deploy Web services	No	
B Resource Adapters		Validate Input off/warn/fail	warn	
B Asynchronous beans		Process embedded configuration	No	
in wat		File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755	
B UBL		Application Build ID	Unknown	
B Resource Environment		Allow dispatching includes to remote resources	No	
fi Security		Allow servicing includes from remote resources	No	
a service services		Business level application name		
ti System administration		Asynchronous Request Dispatch Type	Disabled	
ti Users and Groups		Allow EJB reference targets to resolve automatically	No	
Traublashooting		Deploy client modules	No	
The second se		Client deployment mode	Isolated	
A Service integration		Validate schema	No	
		Call/Nada/Canuas	Click here	

#### 13. Click 'Finish'.

### The following screen is displayed.

WebSphere, software	Welcome Infra Help   Logout II	BM.
View: All tasks	Installing	
Welcome	If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.	
* Guided Activities	Check the SystemCut log on the deployment manager or server where the application is deployed for specific information about the EUB deployment process as it occurs.	
T Servers	ADMA5016I: Installation of FCISApp started	
Applications	ADMASO671: Resource validation for application FCISApp completed successfully	
New Application	ADMAS058I Application and module versions are validated with versions of deployment targets.	
Application Types	ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.	
WebSphere enterprise applications	ADMA500SL The application FCISApp is configured in the WebSphere Application Server repository.	
# Assets	ADMA50811 The bootstrap address for client module is configured in the WebSphere Application Server repository.	
<ul> <li>Global deployment settings</li> </ul>		
T Services	Autorsussi ine larary references for me nataleo esenal package are created.	
Resources	ADMASU05: The application FCISApp is configured in the WebSphere Application Server repository.	
= Schedulers	ADMASSOIT The application binaries and saved in a second s	
<ul> <li>Object pool managers</li> </ul>	п засаколару и воссиланите сорила е при илеа и сота у от и си такира но опосной и и враса се воизвоа дои эти воссе варисановая сопру е вил	
■ JMS	ADMASUUS: The application FCISApp is configured in the WebSpinere Application Server repository.	
€ IDBC	SECJ0400L Successfully updated the application FCISApp with the appContextIDForSecurity information.	
Resource Adapters	ADMAS005I: The application FCISApp is configured in the WebSphere Application Server repository.	
Cache instances	ADMA500St The application FCISApp is configured in the WebSphere Application Server repository.	
🗄 Mail	ADMAS113: Addivation plan created successfully.	
T URL	ADULT 2011 The shares of the term direction for excitation and the termination	
Resource Environment	Autorise is the dealoge of the temp anectary for application rules-op is complete.	
* Security	ADMAS013L Application FCISApp installed successfully.	
E Environment	Application FCISApp installed successfully.	
System administration	To start the application, first save changes to the master configuration.	
🛪 Users and Groups	Changes have been made to your local configuration. You can:	
t Monitoring and Tuning	<ul> <li><u>Save</u> directly to the master configuration.</li> </ul>	
Troubleshooting	Keview changes before saving or discarding.	
Service integration		
* UDDI	To work with installed applications, click the "Manage Applications" link.	
	Manage Applications	

14. Click 'Save'.



The following screen is displayed.

WebSphere, software		Welcome infra	Help   Logout IBM.
View: All tasks 👻	Enterprise Applications		Close page
Welcome	Preparing for the application installation	7	Help -
Guided Activities	Specify the FAR WAR 14R or SAR module to unload and install		Field help
Servers			For field help information,
Applications	Path to the new application		marker when the help
New Application     Application Types     WebSphere enterprise applications     Business-level applications     Asset     Global deployment settings	Local file system     Full path     Bronse. No file selected.      Remote file system     Full path		cursor is displayed. Page help More information about this page
E Services	Browse		
Resources			
(1) Security	Next Cancel		
Environment			
😟 System administration			
Users and Groups			
Monitoring and Tuning			
(i) Troubleshooting			
⊕ Service integration			
100U			

You need to manually select 'Websphere Enterprise Applications' from the left menu. The following screen is displayed:

View: All tasks 👻	-	and the second	_										
l Welcome ⊕ Guided Activities	Enterp	rise Applicat	tions								Field help		
E Servers	Use thi	s page to m	anage ins	stalled applica	ations. A sin	gle application car	n be deployed on	to multiple	servers.		select a field label or list		
Applications	E Pref	Preferences								cursor is displayed.			
New Application	Star	t Stop	Install	Uninstall	Update	Rollout Update	Remove File	Export	Export DDL	Export File	Page help		
Application Types     WebSphere enterprise applications		1#9									More information about this page Command Assistance		
<ul> <li>Business-level applications</li> <li>Assets</li> </ul>	Select	Name 🗘				A	pplication Status	٥					
Global deployment settings	You ci	in administe	er the follo	owing resource	esi						View administrative		
1 Services	23	DefaultApp	lication				•	action					
± Resources		FCIS123				4	•						
1) Security		ECISAPP					•						
± Environment	21	GWEJB				4	•						
± System administration		GWWebSe	rvices				•						
Users and Groups													
± Monitoring and Tuning		INTARR				-							
± Troubleshooting		miapp war											
± Service integration	10	even viewe 🕅											
	- Contractor	Total 8											



Select the application and click 'Start'. The application starts as shown below:

WebSphere, software				Welcome infi	ra H	Help	Logout	IBM.
View: All tasks 🔻							cl	ose page
Welcome     Golded Activities     Servers	Enterpris	e Applications Messages B Application FCISApp on s collection may need to be or	erver server1 and node ofss220075Nod freshed to show the current status.	ie03 started successfully. Th	ne	12	Field h For fiel select a marker	elp d help inform a field label o r when the he
Applications		1					is displ	ayed.
New Application     Application Types     Web/Shee enterprise applications     Business-level applications     Assets     Global delowment settions	Enter Use t E Pr	prise Applications his page to manage installed applications. / eferences nt	single application can be deployed on Rollout Update Remove File	to multiple servers,	Export File	]	Page h More in Rass Comme View as comme	elp formation at and Assistant iministrative and for last as
T Services	0	0 # 9						
Resources	Selec	t Name 🔿	Application Stat	ws 💁				
Schedulers     Object pool managers     JMS     JMC	You	can administer the following resources: <u>Default-splication</u> FCISApp	*					
Resource Adapters		GWDB	*					
<ul> <li>Asynchronous beans</li> <li>Cache Instances</li> </ul>		GWHTTP	*					
B Mad		GWMD8	*					
Resource Environment		<u>GWWebServices</u>	*					
E Security		ivtApp	*					
Environment		SARA	•					
<ul> <li>System administration</li> <li>■ Users and Groups</li> </ul>	Tota	i u						

This completes the deployment of EAR (FCJNeoWeb.ear) on IBM WebSphere Application Server from the Administration Console.

## 1.3 Standalone Scheduler Configuration

If standalone scheduler is enabled then below configuration should be done

1. Login to websphere admin console. Expand 'Application > Application Types> WebSphere Enterprise Applications'. The following screen is displayed:

WebSphere, software				_						Welcome inf	ra P	Help	Logout	IBM.
View: All tasks 🔹	]												c	lose page
Welcame	Enterpris	e Applica	tions									70	Help	
Guided Activities			Mesi m	sages			1.12						For fie	ld help informa
III Servers			coll	ection may r	cisApp on sheed to be re	freshed to show the	current	t status.	to3 started	successfully. Th	14		marke	a field label or ir when the hel
B Applications			-										is disp	layed.
New Application     Application Types     WebSphere interprise applications     Business-level applications	Enter Use t	prise Ap his page eferences	plications to manage	e installed aj	oplications. A	single application c	an be d	deployed onto	o multiple :	iervers.			Page I More I Dage Comm	help nformation abs
* Assets	Sta	rt Stop	Install	Uninstall	Update	Rollout Update	R	emove File	Export	Export DDL	Export File		somm	and for last act
# Global deployment settings	(D)	m=	.0											
Services							120							
🖂 Resources	Selec	t Name	ç				App	slication Statu	* Q.					
# Schedulers	You	You can administer the following resources:								2	4			
<ul> <li>Object pool managers</li> </ul>		DefaultApplication					*							
■ 108C		ECISA	R				+							
It Resource Adapters	m over			m GWER										
Asynchronous beans	100	GWHT												
E Cache instances			_				-							
in Mail		GWMD	8				*							
Resource Environment	E3	<u>GWWe</u>	bServices				*							
t Security	0	ivtApp												
Environment	1	guery					-							
System administration	Tota	18										-		
it Users and Groups	100													
The second second													5	



Click on the application 'FCISApp'. The following screen is displayed:

websphere. Somware		weicome webspriere	
View: All tasks			Close pa
Vee: All tasks  Vee: All tasks Vee: All tasks Vee: All tasks Outded Activities Outde	Enterprise Applications > FCNeeWeb         Use this page to configure an enterprise application. Clifts         Use this page to configure an enterprise application. Clifts         Configuration         General Properties         • Name         CDHeoWeb         Application reference validation         Issue warnings         Obtail Properties         • Target meenfits application status         Bathub behavior         Basket Abstract         Class Loadina and undate detection         Basket Abstract         Statub behavior         Basket Abstract         Basket Abstract         Statub behavior         Basket Abstract         Basket Abstra	Indules   Modules  Modules  Modules  Manage Module Properties  Session management  Management  Session	Help Field help Sof field help information marker when the help cursor is displayed. Page help More information about this page

#### Click on 'Manage Modules'

If the modules that are contained in your collication servers. Also, seeify the Web serve
If the modules that are contained in your polication servers. Also, specify the Web servers
If the modules that are contained in your polication servers. Also, specify the Web server
If the modules that are contained in your polication servers. Also, specify the Web server
If the modules that are contained in your polication servers, Also, specify the Web server
Particulation and the second second strength and the second second
n-cfg.xml) for each Web server is generated.
01Cell,node=ofss220137Node01.server=server
01Cell.node=ofss220137Node01.server=server
01Call onderofer220137Node01 reneterene
01Cell,node=ofss220137Node01,server=server
01Cell,node=ofss220137Node01,server=server
01Cell.node=ofss220137Node01.server=server
01Cell_node=ofss220137Node01,server=server



Click on 'FlexCubeCorporate'. The following screen is displayed:



Select "Classes loaded with local class loader first (parent last)" from the dropdown 'Class loader order'. Click 'Apply' button.

WebSphere. software	Welcome saravanan	Help   Logout IBM.
View: All tasks 🔹	Poternica Annliestinne 9	Close page
Welcome	energinal rippingenonal in	rield hele
Guided Activities     Guided Activi	Messages	For field help information,
Servers	A Changes have been made to your local configuration. You can:	select a field label or list
Applications	Save_directly to the master configuration.	cursor is displayed.
New Application     Application Types	<u>Review</u> changes before saving or discarding.	Page help
WebSphere enterprise applications Business-level applications Assets	The server may need to be restarted for these changes to take effect.	this page
Global deployment settings	Enterprise Applications > FCUBSApp2 > Manage Modules > FCJNeoWeb.war	
+ Services	Use this page to configure an instance of a deployed web module in the application. This page contains deployment-	r
Resources	specific information for a web module and session management settings.	
Security	Configuration	
Environment		
System administration	General Properties Additional Properties	
Users and Groups	+ URI View Module Class Loader	
Monitoring and Tuning	FCJNeoWeb.war Custom properties	
Troubleshooting	Alternate deployment descriptor Target specific application status	
Service integration	View Deployment Descriptor	
. UDDI	+ Starting weight Session Management	_
	Class loader order Classes loaded with parent class loader first	
	Apply   OK   Reset   Cancel	



Click 'Save' link and restart the server.

View: All tasks					Clo
	Enterprise Ap	plications			2 2
Welcome     Guided Activities	Enterprise	Applications > FCIS	App > Manage Modules		
E Servers	Manage M	odules			
B Applications	Specify to	argets such as applic	ation servers or clusters o	f applicat	ion servers where you want to install the modules that are contained in your
New Application     Application Types     WebSphere enterprise applications     Business-level applications     Assets     Global deployment settings	application as target based on Clusters WebSp	In. Modules can be in s that serve as route the applications that and servers: here:cell=ofss22007; there:cell=ofss22007;	Istalled on the same appl rs for requests to this app t are routed through. Node03Cell.node=ofss22	ication se lication. '	ever or dispersed among several application servers. Also, specify the Web servers The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, e03.server=server1 Apply
Services	Kemo	ve Opdate Ke	move File Export File	10	
Resources	© C	1			
Security	1	()	(		
Environment	Select	Module	URI	Module	Server
E System administration	100		FCJGeneralEJB.jar,META-	EJB	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
Users and Groups		FCJGeneralEJ8.jar	INF/ejb-jar.xml	Module	
Monitoring and Tuning	13	FCJSMS.iar	FCJSMS.jar,META-	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
8 Troubleshooting		1	FCIBatch.iar.MFTA- FIB WebSohere.rell=ofss220075Node03Cell.pode=ofss22007		WebSoberercell=ofss220075Node03Cell.node=ofss220075Node03.server=server1
Service integration		ECJBatch.jar	INF/ejb-jar.xml	Module	
E UDDI		FCServiceEJB.jar	FCServiceEJB.jar,META- INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
		FCJScheduler.iar	FCJScheduler.jar.META- INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
	13	FlexCubeCorporate	FCJNeoWeb.war,WEB- INF/web.xml	Web Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1





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