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IBM Connections 4.5 Deployment Scenarios

Deployment Scenarios ERC 1.0



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How to set up embedded Connections Content Manager with IBM Connections 4.5

This procedure describes how to set up Connections Content Manager (CCM) with IBM Connections by using the Embedded installation path.



This document does not cover tuning, restoring reliability data population, and so on. A single all-in-one-box deployment for this documentation is used. This document assumes that you understand the installation process of IBM Connections, WebSphere Application Server, HTTP, and database back-end servers.

See other documentation if you are not familiar with those areas.



Reminder

In this example, the Deployment Manager and application server for node 1 are placed on the same physical computer:

- Deployment Manager, DB2, Connections Node >> myServer
- Caching Proxy >> myProxy



None of the standard connections installation screens is being documented in this procedure, but only the extra steps that are needed to get CCM working. This procedure works when either doing a new installation of Connections with Embedded CCM or if you have an existing installation of Connections and you are modifying the installation.

Creating the IBM Connections Content Manager databases

- 1. Using the database creation wizard for Connections, make sure to select IBM Connections Content Manager databases so that they are created on the database server. You must create them before you can continue with the CCM setup.
- ____2. You should see something like the following result if they are created successfully.

IBM Connections Content Manager Global Configuration Data Database name: FNGCD Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful. Object Store Database name; FNOS

Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful

Database user: LCUSER

Figure 1. IBM Connections Content Manager databases successfully created



Depending on the number of databases on your database server instance on DB2, you might want to check the number value. If it is lower than the number of databases on your server, then DB2 does not allow more open connections to the database, and so you must ensure that it is larger. Usually, it is set to 16: db2 update dbm config using numdb 16, which means that you can populate profiles or build Cognos Cubes at the same time as you install Connections.

Installation of the CCM add-on into the same Connections Cell (new installation option)

- ___1. First, you must copy the builds of CCM down to your local system. The following installation packages are needed: CEServer, CEClient, and FNCS. They must all be copied into a single folder on your Connections Deployment manager. For example, /opt/software/fn-install.
- 2. When done, also copy your Connections installers and start the installer as normal. If you already have Connections installed and chose to install without CCM, start the installation manager on your Deployment Manager and click **Modify**. Ensure that your Deployment Manager and node agents are running.
- ____3. Continue with the installation of Connections as normal, and complete the panels until you get to the Features area. Make sure to select the Add-on Feature > IBM Connections Content Manager. Click Next to continue.

Features		
ш.	epoid	
5	Bookmarks	
	5 Communities	
	Files	
1	Forums	
	Metrics	
121	Mobile	
12)	Moderation	
3	Profiles	
2	Wikis	
	add-on Features	
2	IBM Connections Content Manager	

Figure 2. Installation of Connections - Features area

__4. Validate your WebSphere server as normal but ensure that you use an LDAP user. The user that you use here must be a member of the LDAP branch you have enabled security for. The local wasadmin user does not work. In this example, wpsbind is used. Ensure that validation is successful. ____5. You then see a new installation panel for IBM Connections Content Manager. Click **New deployment** and browse to the location where you copied the CEServer, CEClient, and FNCS installation files. In this example, it is /opt/software/fn-install. Click **Validate** and it should be successful. Then, click **Next** to continue.

Common Configurations	Common Configurations IBM Connections Content Manager			
D Database	IBM Connections Content Manager IBM Connections Content Manager provide the services and infrastructure for a content management library in Communities.			
	Select your IBM Connections Content Manager Deployment			
	New deployment			
	C Existing deployment			
	Installers Location:			
	Location of where the following installers are located: 5.2.0-P8CE-LINUX.BIN;FNCS-2.0.0.0-Linux.bin;5.2.0-P8CE-CLIENT-LINUX.BIN			
	/opt/software/fn-install Browse			
	Follow the IBM Connections Information Center instructions to complete the post-install steps.			
	Validate			

Figure 3. Validating your WebSphere server

- ___6. Select the topology type for your environment and click Next to continue. This is the cluster where CCM is installed.
- ____7. Next, you are asked to validate the connection to the new IBM Connections Content Manager databases. Complete the information here and make sure that the validation is successful.
- 8. Continue with the installation as normal and after some time it should complete successfully. If so, you should see the following result from the installation manager.



Figure 4. Message: IBM Connections Content Manager installed successfully

You have CCM installed and you must now configure it.

Admin console post-installation steps and checks

Now you have two more applications on your admin console. These applications are FNCS and FileNetEngine:



Figure 5. New applications on the admin console: FNCS and FileNetEngine

- 1. The first step is to map the manage modules to your web server and your cluster that you installed CCM into. It ensures that CCM can be accessed over HTTP (80) and not the internal ports of your CCM server (9080). Make sure to synch the nodes, and generate and propagate the plug-in to your HTTP server after this change. A restart of the HTTP server is also needed.
- ____2. Now go to Enterprise Applications > FNCS > User RunAs roles and check that the user you used to install CCM is recorded as the anonymous user. In this example, it is wpsbind.

Đ		
Select	Role	User name
Ð	Anonymous	wpsbind

Figure 6. Checking that the user used to install CCM is recorded as the anonymous user

Changing the HTTP or HTTPS URLs for CCM in LotusConnections-config.xml to your web server for CCM

____1. The file LotusConnections-config.xml has URLs and ports that are hardcoded and they must be changed to your web server. So, they must change to the URL for the HTTP fronting your CCM server.

Figure 7. LotusConnections-config.xml

____2. When done, make sure to synch the change to your nodes.

Check if any specific workarounds or patches are needed for the builds of Connections, CEServer, CEClient, or FNCS. They must be applied now before you start connections and configure the object store. When done, start Connections and your CCM server. Ensure that HTTP and the database are also running.

without the prior written permission of IBM.

Creating the CCM domain

Next, you must create a domain on CCM. Do it before any object store is created or any add-ons are installed, which are done later.

- ___1. First, access the Admin Console for Content Platform Engine ("acce" for short). To do it, go to http://myProxy.example.com/acce/ and logging in as the user you set up CCM with, wpsbind.
- __2. The Administration Console for Content Platform Engine opens. Click **Next** to continue.

1 Rev Demain	
Next > Cancel	
Specify the Domain famou	
A Fishtet P0 domain is a logical prograg of resolutors (stuel) vibre deb anywer can access servicescence in 6x domain, but cannot access any re-	disease. Tothest index areas, the storage errors, and content (adjacareas) and Platest PB service that provide service that has established for the disease.
The set of	and the second
offer you click Next, you cannot relay to this cling to change fre news	
offer you click Next, you cannot relary to this click to change the news	http://myDocumentationServer.example.com/myDoc/topic

Figure 8. Admin Console for Content Platform Engine

_3. Next, you must specify the Directory Services Provider. Change the type to IBM Virtual Member Manager and display name to IBM VMM. Click Next to continue.

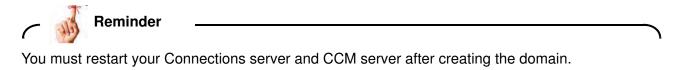
3 1010	Domale *				
-	Next-	Start .	Cancel		
HICTLY I	In Directory Ennice Pro	vadire			
	no Directory Service Pro		ured for the Cor	Engine A Finddet PE domain can use long one directory server type	
and the		already canning	ared for the Cor	Engine A Filehist PE domain can use knig one directory server type	
red the	e dredovy renice provide	already canning	annet far Hig Car	Eingme A FileHat PE domain can use lovy one directory server type Obl Votusi Member Manageri	

Figure 9. Admin Console for Content Platform Engine - Specifying the Directory Services Provider

____4. Next, you specify the domain administrators. It should already contain your wpsbind user. Click **Finish** to complete this section. When done, you should see something like the following screen.

Add the users and groups who should have Full Control administrative access to the FileNet P8 domain. Learn more Add. Remove	1 New Dos	tsain *		
	Clark.	Bank Li-	Finish	Caecel
Add Remove	Specify the R	Iomnin Administrati	01.0	
A Parabase Menerality				ntral administrative access to the FileNet PR domain Leasn more
Sbort Ramo - Principal Name	Add the user	e and groupe who st		ntrol administrative access to the FileNot P8 domain. Learn more .

Figure 10. Admin Console for Content Platform Engine - Specifying the Domain Administrators



Installing the Quickr 1.1 Services Layer into your CCM domain

1. Now you must install the Quickr 1.1 services layer. Do it by running the following command from where FNCS is installed:

export JAVA_HOME=/opt/IBM/WebSphere/DeploymentManager/java/ ./addon.sh /opt/IBM/Connections/addons/ccm/FNCS/CE_API http://myAppServer.example.com/ wsi/FNCEWS40MTOM/

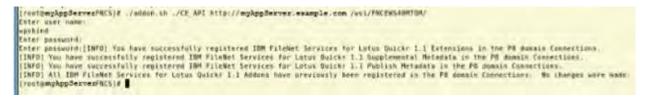


Figure 11. Installing the Quickr 1.1 services layer

Administration Consult for Contrast	Platium Engline		
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		ADDITEST	

Figure 12. Administration Console for Content Platform Engine

2. You should now be able to restart your deployment. On doing so, go to http://myAppServer.example.com/dm and you should see something like this result:

IBM FileNet Collaboration Services

Product name	IBM FileNet Collaboration Services
Product version	2.0.0.0
Build number	p8quickr120.116
Content Platform Engine URL	corbaloc:rir:/cell/clusters/ICCluster/CCM/Engine
Web client application URL	and a finding of several part of a fi
IBM Connections server URL	http://myAppServer.example.com/9083/homepage
P8 domain	ICDomain
P8 object store	ICObjectStore
P8 API version (build)	dap511.367
P8 API version (runtime)	P8 Content Engine Java API dap511.444
Quickr web services bindings bu	

Figure 13. IBM FileNet Collaboration Services

Creating the object stores

Click **New** from here.

1. Next, you must create the object store. To do it, log in to http://myProxy.example.com/acce/ and log in as the user that you set up CCM with, wpsbind. Expand the ICDomain and click **Object Stores**. It displays the following result.

2 KDomain			
SCDomain Global Configuration Global Configuration (Object Stores)	100 ICDomen Coject Stores	77) 	
	C fame	Sinte	Pushinted Re

Figure 14. Administration Console for Content Platform Engine - ICDomain

____2. Make sure to enter ICObjectStore as the Display name and the Symbolic name. It must be set as ICObjectStore. Click Next to continue.

Name the Object Store		
* Display manie (#	RCODIECtore	
Existing names:		
* Symbolic name (7)	100ejectStory	
	1000jectovcie	

Figure 15. Administration Console for Content Platform Engine - ICDomain - New Object Store

____3. Next, you are asked for the database information. Click **New** from the following page:

< Back	Next.»	Time	Cancel		
edite: the Dat	shann				
			nine the database his the start store and i ace that you specify is expected to exist in th	also the database engine DB2, Oracle, in SQL Server, 17 Na database	e database
rquitant: 1 th	e database for th	lis adject stare of	discussed by other object shows, writer a s	chema name. The ochama name must be unique av tha	t no fwn oby
- Databi	sé connection ()	0			Rev.
Schem	ingme (f)				
Edabh	names 2				
Thesholm	ue Index alaraye				
location	0				
Datate	ne fable storage	· · · ·			
locato					

Figure 16. Administration Console for Content Platform Engine - New Object Store - Defining the database

____4. Next, enter FNOSDC as the Display name for the database connections. Click **Next** to continue.

Nixt>	Cascal	
Genuity the Distidance Commercian Name and Sile		
use this williard to create a delatase connection that	dentifies the JHDI XA and non-XA data source par that provides the JDBC of	connection to the database. Learn in
+ Display many If	FNORIDIO	
Exstino namea.		

Figure 17. Administration Console for Content Platform Engine - New database connection

____5. Next, enter the JNDI data sources as shown. These must be FNOSDS and FNOSDSXA. Click **Next** to continue.

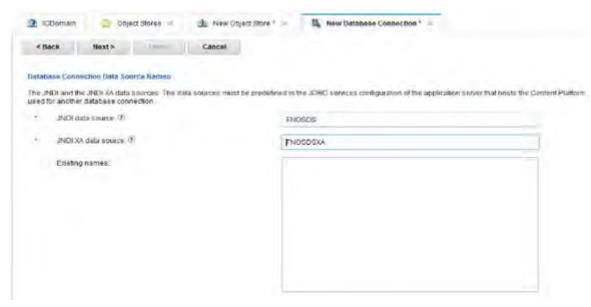


Figure 18. Administration Console for Content Platform Engine - New database connection - Database connections data source names

___6. Then, click **Finish**.

< Back Heat	Finish	Cancel	
Summary			
Name	Value		
Display name	FNOSDC		
Site	Initial Site		
JNDI data source	FNOSDS		
JNDI XA data source	FNOSDSXA		

Figure 19. Administration Console for Content Platform Engine - New database connection - Summary

1CDomain	Dbject Stores	👍 New Object Store * 🚿	New Database Connection
Open	Close		
Success			
Start time: Februa	ary 12, 2013 1 23, 14 PM GMT 5	Standard Time	
End time: Februa	ity 12, 2013 1:23:18 PM GMT S	tandard Time	
Elapsed time: 4 s	seconds		

Figure 20. Administration Console for Content Platform Engine - New database connection - Success

. ..

____7. Click Close.
___8. Now go back to the New Object Store Page and click Next to continue.
____8. Now go back to the New Object Store * >>
____8. Now go back to the New Object Store * >>
____8. New Object Store * >>
____8. Next >>
____8. Cancel

Figure 21. Administration Console for Content Platform Engine - New Object Store

____9. Click **File** as the storage area type and then **Next** to continue.

Back Nexts Cancel Sector Type of Skenge Area for Commit Detect the type of Skenge Area where content is shared. Belowing a type other than Detabase causes two storage areas to be created (because an object store always ha use for incomunic content can be changed take after the object store is created. Intrade area type (P) Detabase T File ©	2 XCOncean	C 084	HE OTOFRE -	18 New Object Store		
Detect the hype for this storage area where control is shore. Detecting a type other than Detabase causes two storage areas to be created (because to object store always ha	4 Back	hinst >	1998	Cancel		
use far interminis contants can be changed taler after the object store is created. Iterade area type: IP Polaheae T File 3				ntis skores. Delecting a type other than Detabase causes two	atorage areas to be created (beca	use an object store bloovs ha
rite €	use for income	in content can be Morage area type	e changed taker.	ther Shie object store is created.		
· File C						Contained as 1
						File C

Figure 22. Administration Console for Content Platform Engine - New Object Store - Selecting the type of storage area for content

____10. You must make sure that the root directory is created on your system. In this example, /opt/IBM/IC_Share/libraries is used. Also, change the Directory structure size to large. Click Next to continue.

< Back	Nox1>	Cancel		
Configure th	ve File Storage Area			
* Ro	of directory, (#)		lop01BM/IC_Share/libraries	
Din	ectory structure size: 7		Largs	
- Ma	emon size. D		Maximum allowed on device (8) Ecolo ME (8)	
- Mar	omum number of elements:		Uninvited	
Del	leto method. (2)		Non-recoverable	_
Opt	lons:		Suppress Suppress Suppress Suppress (7)	
			Compress content ®	
	mpression threshold reenlage:		80	
	non) activation priority (1)		0	

Figure 23. Administration Console for Content Platform Engine - New Object Store - Configuring the file storage area

____11. Next, you are asked for the admin access user. It should already be set to wpsbind. Click **Next** to continue.

CDomain	Dbjed	t Stores 🔟	New Object Store * ×
< Back	Nex1 >	+000	Cancel
	trative Access		
Select the user Learn more	s and groups who	should have h	ill administrative control of the object store. Your user account is automaticall
	Contraction of	should have h	III administrative control of the object store. Your user account is automaticall
Learn more	Contraction of		III administrative control of the object store. Your user account is automaticall Principal Manse

Figure 24. Administration Console for Content Platform Engine - New Object Store - Granting Administrative Access

12. Next, you grant access to non-admin users. Click Add. You must search for * and then the #authenticated-users displays. Add that to the selected users and groups area and click OK.

select are added to the ad			u want to allow or den Jetault permissions tr		
Search Criteria					
Search in realm:	dc=collaboration	ealm		i i	
Search for: (2)	Groups	Vusers	Special acco	ounts	
Maximum results returned:	500				
Sort order:	None	*			
Short name +	Starts with	+			Search
Search Results Available Users and G	roups	Selected	Users and Groups	-	
#CREATOR-OWNE	R	💰 #AUT	HENTICATED-USER	S	

Figure 25. Adding users and groups

____13. The #authenticated-users is added. Click Next to continue.

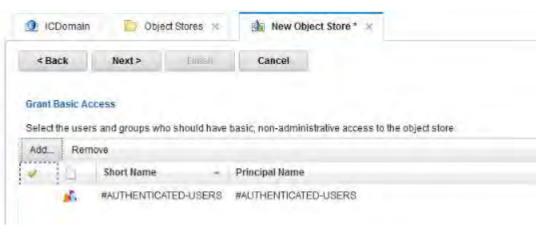


Figure 26. Administration Console for Content Platform Engine - New Object Store - Granting Basic Access

- ____14. Next, you are asked which add-ons to install. You must select all of the following ones:
 - 5.2.0 Base Application Extensions
 - 5.2.0 Base Content Engine Extensions
 - 5.2.0 Custom Role Extensions
 - 5.2.0 Social Collaboration Base Extensions
 - 5.2.0 Social Collaboration Document Review Extensions
 - 5.2.0 Social Collaboration Notification Extensions
 - 5.2.0 Social Collaboration Role Extensions
 - 5.2.0 Social Collaboration Search Indexing Extensions
 - 5.2.0 TeamSpace Extensions
 - IBM FileNet Services for Lotus Quickr 1.1 Extensions
 - IBM FileNet Services for Lotus Quickr 1.1 Supplemental Metadata
 - IBM FileNet Services for Lotus Quickr 1.1 Publish Metadata



If you get errors when adding the Quickr add-ons, ignore them.

____15. Click **Next** to continue.

____16. A summary screen displays. Click **Finish** and the object store should be created. Assuming it is successful, you should see something like the following screen:

ICDomain		
	Cibject Stores	New Object Store
Open	Close	
Success		
Start time. Februa	ny 12 2013 1 34 15 PM GM	T Standard Time
End time: Februa	ry 12, 2013 1:35:18 PM GMT	F Standard Time
Elapsed time 12	4 seconds	
	100%	
Creating databas	e tables and metadata _ S	lintess

Figure 27. Administration Console for Content Platform Engine - New Object Store - Success

____17. Everything is done. The object store is now created. Click **Close** to exit this page.

17

Extra changes to the object store for Connections

___1. Go to http://myProxy.examplecom/acce/ and log in as the user that you set up CCM with, wpsbind. Select the object store. The following screen is displayed.

Administration Consule for Content Fig		
Direct Imper KOMmeritables		
🔺 KOOpentave + 📵 Administration	it consections	
A CI (Rompa * CI Data Decign	Ratures Actions -	
Constanting Actions, Prime const Constanting Bitty Constanting Towned Management	General Properties Test Bracci Guers	Cate Search Productor Case Bearry
	- Daplay york (*	Kooledature
	Description II	scogedary
		(01A23460-CD67.0EFG-0+0123(607231)
	Date:	against .

Figure 28. Administration Console for Content Platform Engine - ICObjectStore

2. Now click **Search** on the left side. From the "Select from" table, click **Collaboration Configuration** and * for the column. Click **Search**.

1	L.			
Otiert Sties #200ectSters				
de Conservative estimate estimate conservative conservative conservative conservative conservative conservative	ICOmethou Search Namesh Observe Trianch Search Trianch Trianch Trianch Trianch Thomas Search Trianch Rathers Search Trianch Actives Trianch Trianch		visit: unit That diagonal nowarks his	nava tha stanika and sectors (sector)
	Thermost Brook Galaxie	Gumahaalahaa Contigaa Moo		
	and any other	Commun. Sectors: Descent Languet (Dis). Alfalag Sector (Descent Alfala) Sectors: Descent (TTD) Sectors: Distance (TTD) Sectors: Distance (TTD)	8	1

Figure 29. Administration Console for Content Platform Engine - Search

___3. It finds a document like the following one. Select this document to open it.

Refresh	Ciose			
earch: Search				
Simple Search	SGL Query	Search Results =		
Actions -				
APPROVED IN				
	TOP 500 * FROM CID	CollaborationConfiguration OPTIC	INS(TIMELJMIT 180)	
	TOP 500 * FRON CID	CollaborationConfiguration OPTIC	nys(timeljinit 180) Creator	Date Created

Figure 30. Administration Console for Content Platform Engine - Search - Selecting document

- ____4. From this document, select **Properties** and enter the following information:
 - Download Count Anonymous User IDs >> wpsbind (your admin user)
 - Activity Stream Retrieval URL >> {ecm_files} (should be copied exactly)
 - Activity Stream HTTP Endpoint URL >> https://myAppServer.example.com
 - Activity Stream Gadget URL >>
 {connections}/resources/web/com.ibm.social.ee/ConnectionsEE.xml (should be
 copied exactly)
 - Config 1 >> wpsbind (your admin user password)
 - Config 2 >> wpsbind (your admin user)
 - Activity Stream Extended Settings >> Click the small triangle that is associated with the Property Value for this entry and select Display or Edit Value. Sequentially enter the following five entries by placing each of the strings in the "Enter a string value" field and clicking Add for each entry. When finished, click OK.

```
activityStreamRetrievalURL={0}/atom/library/{1}%3B{2}/{3}/{4}/entry
activityStreamAnonymousRetrievalURL={0}/atom/anonymous/library/{1}%3B{2}/{3}/{4}
/entry
activityStreamOauthRetrievalURL={0}/atom/oauth/library/{1}%3B{2}/{3}/{4}/entry
activityStreamFileLinkURL={0}/atom/library/{1}/document/{2}/media/{3}
activityStreamNullifyActionableURL={0}/connections/opensocial/basic/rest/activit
ystreams/@me/@all/@all/{1}
```

____5. Save the document and you are done.

Setting up update server caching to ensure immediate replication of access control between Connections and FileNet P8

- ___1. Go to http://myProxy.example.com/acce/ and log in as the user you set up CCM with, wpsbind.
- ____2. Select your Domain. In this example, it is ICDomain. Then, in the tabs on the right, click **'Server Cache Subsystem'.#**.
- ____3. Now Scroll to User Token Cache and change the Entry TTL value from 3600 to 1 and set Subject Cache and change the Entry TTL value from 3600 to 1.

Entry TTL: (2)	1	seconds
Maximum cache entries: 🕖	8,192	
bject Cache 🖲		
ojeci cache 🥪		
Entry TTL. (F)	1	seconds

Figure 31. Setting up update server caching

Setting up the Linked Library widget



This step is optional.

Previous versions of Connections had integration between Connections and FileNet P8/CM8 with the Linked Library widget. This widget uses some of the Quickr Picker code to link to a team space or folder on FileNet P8/CM8.

1. To enable it, you must edit the widgets-config.xml and uncomment the following lines:

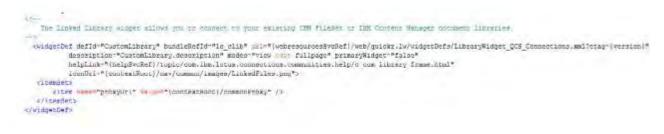


Figure 32. widgets-config.xml

2. Restart the server. After you do it, if you customize a Community you have another widget to select: the Linked Library one.

Biog	+	16 Ideation Blog	- 4	Activities	+	I. WAU	
Subcommunities	*	E Feeds	+	III Media Gallery	÷ +	I fvents	
Related Communities		S Linked Library	+	ti Linney	+		

Figure 33. Customizing a Community and selecting another widget

____3. You can then enter the server URL to your FileNet P8/CM8 server and select the team space folder that you want to link to the library widget to (see following screen):

	opnection Ctanonae	
-	meched to: BVT Folder 0440 #48421	
- 64	erver: http://puloub115.mull.ie.jom.com	
	Open	
38	iscl an Rem:	
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£.	🛱 (n-lan_000_441	
۴	Library Level 2 BVT test0441941281	
ę.	Ibrary Level 2 BVT test0441036471	
×.	ELIDEARY LINVI 2 BVT test0441036531	
ŕ.	EListary Level 2 BVT test0441830401	
٠	Elitrary Level 2 BVT test044102736 1	
¢.	ELitrary Level 2 BV7 tect0441025331	
۴	ELibrary Level 2 BVT tect0441009491	
٠	ELIbrary Level 2 BVT test0441007071	
۲	E Library Level 2 BVT test0441004471	
٠	ELibrary Level 2 BVT test0440059371	
í.	Library Level 2 BVT test0440956541	
÷	ELibrary Level 2 BVT test0440955021	
ł.	Library Level 2 BVT test0440048421	
ŀ.	E Library Level 2 BVT test0440945421	
5	ave Save and Olive Cancel	

Figure 34. Editing Linked Library Settings

When done, you can access the files on your FileNet P8/CM8 server directly from within the Community.

____4. That is it. Now restart your whole deployment and you are ready to test it.

Testing the CCM integration

- ____1. Log in to Connections as a non-admin user, create a community, and customize that community to add the library widget. It should be added successfully.
- ___2. Then, from the library in that community, upload a file. It should be uploaded correctly.

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Fonum	fn-ian_000_441	
Bioconnaite Fotes	Additional of Film Harvey Fundame	Uners B. W.
lifectormatika Fidenci Laberary Medician	nitow it minimum interests a throwing i.e.	females and
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	Distance of the second se	- take lines
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Figure 35. Connections - Uploading a file in a community

____3. Also, if you log in to Administration Console for Content Platform Engine, you should be able to log in as the user that you used to create the document and see it.

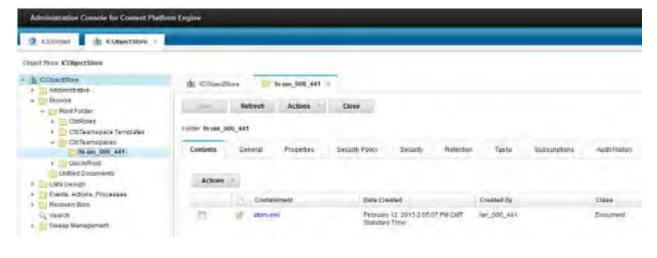


Figure 36. Administration Console for Content Platform Engine

__4. Also, if you go to the home page and click **Discover**, you should see the document that is displayed.

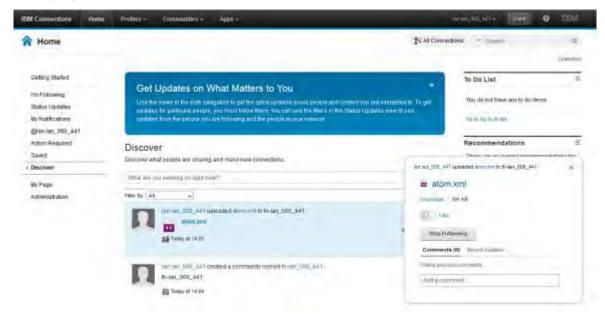


Figure 37. Home page - Discover

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