



## **HCL MT CH-MSP Product Documentation**

**Installing 6.5 MT, Component Pack, and HCL Docs MT**

## Installing HCL Connections 6.5 CR1a for a Multi-Tenant Environment

### About this topic

This topic contains general information, guidance on installing HCL Connections CR1a for a Multi-Tenant environment, as well as updates required to install and configure HCL Connections CR1a Multi-Tenant.

### MSP - Installing Connections 6.5 and the HC6.5\_CR1a update

1. [Install HCL Connections 6.5](#) (HCL\_Connections\_6.5\_lin.tar), as noted in the HCL Connections Product Documentation.  
**Note:** Do NOT install HC6.5\_CR1
2. Install Connections 6.5 CR1a (HC6.5\_CR1a.zip), following this procedure: [Install the HC6.5\\_CR1a update](#)
3. Apply the security iFx - Day 0 fix: 6.5.0.0\_CR1a-IC-Communities-IFLO100042.jar, following this procedure: [Installing interim fixes](#)

## Installing Component Pack\_6.5.0.1a update for Multi-Tenant

### About this topic

This topic contains general information and guidance on installing the HCL Connections Component Pack update: ComponentPack\_6.5.0.1a Multi-Tenant.

### MSP - Installing Component Pack\_6.5.0.1a update for MT

1. Starting point is Connections Component Pack 6.5.0.0 (ComponentPack\_6.5.0.0.zip)

**Note:** Do NOT install the Component Pack update for 6.5.0.1

2. Install Component Pack 6.5.0.1a (ComponentPack\_6.5.0.1a.zip), following this procedure: [Upgrading Component Pack to the latest version](#)

**\*\*** To install kubernetes in HA - please follow official k8s documentation, it seems that one of the 'helper' scripts that we provide (as examples) is not using the right api version.

# Installing HCL Docs for the Multi-Tenant environment

## About this topic

This topic contains general information, guidance on installing and configuring HCL Docs in a Connections Multi-Tenant environment

If you do not have HCL Docs installed or have a version earlier than 2.0, install or update to HCL Docs 2.0

(CN7ZLML.zip), refer to the following for additional information - [Deploying HCL Connections Docs 2.0 CR3](#) Once you are on HCL Docs 2.0 or greater, apply Docs iFix009 (HCLConnectionsDocs\_CR3\_iFix009.zip), refer to the Patch Guide for additional information - [HCL Connections Docs 2.0 CR3 iFix009, Patch Guide](#)

## I. Enabling MT for Docs

1. If installing Docs for the first time, set the multitenancy install options in the installation configuration property files:

in the viewer install config properties file (example, cfg.viewer.properties):

```
# multitenancy enablement, false means installation to single tenant environment.  
multi_tenancy=true
```

in the editor install config properties file (example, cfg.editor.properties):

```
# multitenancy enablement, false means installation to single tenant environment.  
mt=true
```

**Note:** if Docs was previously installed WITHOUT this multitenancy settings, just set them under the Docs configuration files, "enablement": "true", as shown in the next step

2. After installing, enable the multitenancy URL patterns in the Docs configuration files located under the websphere configs cells dir.

Example: /opt/WebSphere/AppServer/profiles/<mgr>/config/cells/<cell name>/IBMDocs-config

files: ./concord-config.json and ./viewer-config.json):

```
"multitenancy":  
{  
  "enablement": "true",  
  "tenant_pattern":  
    "http://{org}.<your domain>",  
  "secure_tenant_pattern":  
    "https://{org}.<your domain>"  
},
```

After installing, please double check the following configuration setting

In `LotusConnections-config.xml`, make sure that the URL `sloc:pattern` for the `docs` and `viewer` services to include the `{org}` example:

```

<sloc:serviceReference bootstrapHost="admin_replace" bootstrapPort="admin_replace"
clusterName="ICCluster" enabled="true" serviceName="docs" ssl_enabled="true">
  <sloc:href>
    <sloc:hrefPathPrefix>/docs</sloc:hrefPathPrefix>
    <sloc:static href="http://connmt.cnx.cwp.pnp-hcl.com" ssl_href="https://connmt.cnx.cwp.pnp-
hcl.com"/>
    <sloc:pattern href="http://{org}.cnx.cwp.pnp-hcl.com" ssl_href="https://{org}.cnx.cwp.pnp-
hcl.com"/>
    <sloc:interService href="https://connmt.cnx.cwp.pnp-hcl.com"/>
  </sloc:href>
</sloc:serviceReference>

<sloc:serviceReference bootstrapHost="admin_replace" bootstrapPort="admin_replace" clusterName="ICCluster"
enabled="true" serviceName="viewer" ssl_enabled="true">
  <sloc:href>
    <sloc:hrefPathPrefix>/viewer</sloc:hrefPathPrefix>
    <sloc:static href="http://connmt.cnx.cwp.pnp-hcl.com" ssl_href="https://connmt.cnx.cwp.pnp-
hcl.com"/>
    <sloc:pattern href="http://{org}.cnx.cwp.pnp-hcl.com" ssl_href="https://{org}.cnx.cwp.pnp-hcl.com"/>
    <sloc:interService href="https://connmt.cnx.cwp.pnp-hcl.com"/>
  </sloc:href>
</sloc:serviceReference>

```

## II. Fixing the issue with the 'wasadmin' account:

If you encounter errors like the following when accessing Docs (create/view docs):

```

[3/18/20 21:54:54:727 UTC] 000185b9 UserDAOImpl 1 EJPVJ9067E: Unable to get the user with directory ID
39ed9824-7f28-4aec-8474-89e1c59a719b. [UserImpl@e40a94ce id=00000000-0000-0000-0000-000000000000
directoryId=00000000-0000-0000-0000-000000000000 orgId=a deviceId=null appExternalId=null]
com.ibm.lconn.share.platform.exception.ItemNotFoundException: EJPVJ9055E: Unable
to get one or more of the item(s) with ID(s) 39ed9824-7f28-4aec-8474-89e1c59a719b, a.
at com.ibm.lconn.share.platform.dao.impl.UserDAOImpl.getByDirectoryIdAndOrgId(UserDAOImpl.java:3579)
at com.ibm.lconn.share.platform.dao.impl.UserDAOImpl.login(UserDAOImpl.java:1603)
at com.ibm.lconn.share.platform.dao.impl.UserDAOImpl.restoreFromSessionOrLogin(UserDAOImpl.java:1316)
at
com.ibm.lconn.files.cmis.services.FilesRequestProviderFactory.setupUser(FilesRequestProviderFactory.java:3
68)
at
com.ibm.lconn.files.cmis.services.FilesRequestProviderFactory.getProviderFromRepositoryId(FilesRequestProv
iderFactory.java:218)
at com.ibm.lotus.cmis.atompub.CMISObjectEntryByPath.doGet(CMISObjectEntryByPath.java:68)
at com.ibm.lotus.cmis.rest.Service.doGet(Service.java:303)

```

### 1. Find the DIRECTORY\_UUID for 'wasadmin'

a). On WAS, locate the fileRegistry.xml

```
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/mtdemo1Cell01/fileRegistry.xml
```

b). Open the file, and find the following section:

```
<wim:identifier externalId="6cfb3b95-4f1c-4c7f-9f89-bb86d04e1006" externalName="uid=wasadmin,o=defaultWIMFileBasedRealm"
uniqueId="6cfb3b95-4f1c-4c7f-9f89-bb86d04e1006" uniqueName="uid=wasadmin,o=defaultWIMFileBasedRealm"/>
```

c). Copy the 'externalId' value, save it somewhere and use it in the next step.

### 2. Run the following SQL to insert an entry to the USER table in FILES database: Please make sure to put the DIRECTORY\_UUID string retrieved in Step1 as the second parameter in the SQL.

**INSERT INTO FILES."USER"**

(ID,DIRECTORY\_ID,EMAIL,NAME,ROLES,CREATE\_DATE,LAST\_VISIT,DIRECTORY\_LAST\_UPDATE,DIRECTORY\_GROUP\_LAST\_UPDATE,COMMUNITY\_GROUP\_LAST\_UPDATE,LIBRARY\_ID,STATE,PREFERRED\_PAGE\_SIZE,PREFERRED\_VIEW,FORMATTING\_LOCALE,TRANSLATION\_LOCALE,LOWERCASE\_EMAIL,LOWERCASE\_NAME,PREFERRED\_COLUMNS,FILESYNC\_PREFERENCE,"TYPE",ORG\_ID,COMMUNITY\_ENABLED) **VALUES**  
(x'90E42B439A584765A2469ADE6330F8D8','<replace\_wasadmin\_DIRECTORY\_UUID\_here>', '', 'wasadmin',1007,**CURRENT\_TIMESTAMP**,**CURRENT\_TIMESTAMP**,**CURRENT\_TIMESTAMP**,**CURRENT\_TIMESTAMP**,**CURRENT\_TIMESTAMP**,NULL,0,1,1,'en','en','', 'system  
user',0,0,1,'a',1)  
;

**Note:** The first parameter is a binary value. You can use it as how it is in the sample SQL above. It is unlikely there is a conflict in the existing entries. If so, just change it value to something else, e.g., change a character or two.

### III. Fixing the issue with impersonation errors

If you have run AutoDeploy script, this should have been done automatically. But in case there were some issues, and if you encounter errors like the following when accessing Docs (create/view docs):

```
[3/18/20 23:26:28:195 UTC] 0001764f UserDAOImpl 1 EJPVJ9070E: Unable to logon the user with the J2EE
principal wasadmin. [null]

com.ibm.lconn.share.platform.exception.PermissionDeniedException: EJPVJ9155E:
Unable to perform the action IMPERSONATE on item 1000000579 as the user [UserImpl@be974a9a id=8be1cbfb-52d7-4970-
b2a4-e8bd3e0c2dc8 directoryId=39ed9824-7f28-4aec-8474-89e1c59a719b orgId=a deviceId=null appExternalId=null] does
not have permission.

at com.ibm.lconn.share.platform.dao.impl.UserDAOImpl.restoreFromSessionOrLogin(UserDAOImpl.java:1346)
at com.ibm.lconn.files.cmis.services.FilesRequestProviderFactory.setupUser(FilesRequestProviderFactory.java:368)
at
com.ibm.lconn.files.cmis.services.FilesRequestProviderFactory.getProviderFromRepositoryId(FilesRequestProviderFac
tory.java:218)
at com.ibm.lotus.cmis.atompub.CMISObjectEntryByPath.doGet(CMISObjectEntryByPath.java:68)
at com.ibm.lotus.cmis.rest.Service.doGet(Service.java:303)
```

The fix is to Turn on CONNECTIONS\_ENABLE\_IMPERSONATION to 'True':

a). From a browser, hit URL:

[https://<your\\_connections\\_host\\_name>/connections/config/highway.main.gatekeeper.tiles](https://<your_connections_host_name>/connections/config/highway.main.gatekeeper.tiles)

Login as 'wasadmin', i.e. the user account mapped to the 'connectionsAdmin' J2C alias.

b). Find the following Gatekeeper flag: CONNECTIONS\_ENABLE\_IMPERSONATION

Click on 'Edit', and select 'True' from the dropdown. Then click Save.

c). Restart the server where Files app runs on.