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*IBM Connections 4.5 Deployment Scenarios* 

Deployment Scenarios ERC 1.0



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# How to set up Cognos and metrics for Connections 4.5

### Abstract

This document assumes that you do not have Connections 4.5 installed. It describes the procedure to install Cognos and the Cognos fix packs correctly and the Connections installation steps that deal with Cognos integration to get metrics to work against Connections 4.5.

### Prerequisites

Make sure to complete the following requirements before you get started on the setup:



You must have a deployment manager setup. It is recommended to use the same deployment manager that you use for the Connections 4.5 installation later. If you do not have a deployment manager that is set up, you must do it. Make sure that the deployment manager is set up as for normal Connections installation.

See Installing WebSphere Application Server for Cognos Business Intelligence,

http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+ 4.5+Cumulative+Release+1+documentation#action=openDocument&res\_title=Installing\_We bSphere\_Application\_Server\_for\_Cognos\_Business\_Intelligence\_ic45&content=pdcontent &sa=true.

- \_\_\_\_1. On RedHat Linux 6 (RHEL 6 x64) 64-bit systems, apply the following setting before running the setup scripts: LD\_PRELOAD=/usr/lib64/libfreebl3.so
- \_\_\_2. On non-Windows platforms, install OpenMotif 2.2 (32-bit version) and its dependent libraries. See Cognos BI 10.1.1 Software Environments - Required Patches, http://www-01.ibm.com/support/docview.wss?uid=swg27022463.
  - \_\_\_\_a. For RedHat 5 and 6, run the following to set them up:

```
"yum install binutils-2*x86_64* glibc-2*x86_64*
nss-softokn-freebl-3*x86_64* glibc-2*i686* nss-softokn-freebl-3*i686*
compat-libstdc++-33*x86_64* glibc-common-2*x86_64* glibc-devel-2*x86_64*
glibc-devel-2*i686* glibc-headers-2*x86_64* elfutils-libelf-0*x86_64*
elfutils-libelf-devel-0*x86_64* gcc-4*x86_64* gcc-c++-4*x86_64*
ksh-*x86_64* libaio-0*x86_64* libaio-devel-0*x86_64* libaio-0*i686*
libaio-devel-0*i686* libgcc-4*x86_64* libgcc-4*i686* libstdc++-4*x86_64*
libstdc++-4*i686* libstdc++-devel-4*x86_64* make-3.81*x86_64*
numactl-devel-2*x86_64* sysstat-9*x86_64* compat-libstdc++-33*i686*
compat-libcap*"
```

\_\_b. For SuSE 11, install glibc-32bit-2.9-13.11.1 compat-32bit-2010.1.31-6.1.x86\_64.rpm libstdc++33-3.3.3-27.4.i586.rpm openmotif-libs-32bit-2.3.2-5.1.x86\_64.rpm and openmotif22-libs-32bit-2.2.4-189.1.x86\_64.rpm /lib/libpam.so.0 /lib/libpam.so.0.81.12 /lib/libaudit.so.0

/lib/libaudit.so.0.0.0

- \_\_\_3. Verify that the Deployment Manager (DM) is running.
- 4. Verify the time difference between the node that hosts the Cognos BI Server and the deployment manager does not exceed 5 minutes. It ensures that the addNode action does not fail.
- \_\_\_\_5. Verify that the node to host Cognos BI Server is not already federated to the Deployment Manager. It is done later.
- 6. Verify that you have an available LDAP user to set as the Cognos administrator. For Cognos and Connections to work, you must use an LDAP user as the administrator on Cognos. The local WebSphere user wasadmin does not work. Plan to use an LDAP user. In this document, wpsbind is used.
- 7. Download both Cognos BI Server and Cognos Transformer packages to your test systems. In this example, these packages are installed onto the same system as deployment manager. In the following table are the names and part numbers to download from:

			Full eAssembly
OS	BI Server	Transformer	(includes BI Server and
			Transformer)
AIX	IBM Cognos Business Intelligence Server 64-bit 10.1.1 AIX Multilingual (CI5VTML)	IBM Cognos Business Intelligence Transformer 10.1.1 AIX Multilingual (CI2Q4ML)	IBM Cognos Business Intelligence 10.1.1 AIX Multilingual eAssembly (CRFY4ML)
Linux	IBM Cognos Business Intelligence Server 64-bit 10.1.1 Linux x86 Multilingual (CI5W7ML)	IBM Cognos Business Intelligence Transformer 10.1.1 Linux x86 Multilingual (Cl2Q6ML)	IBM Cognos Business Intelligence 10.1.1 Linux x86 Multilingual eAssembly (CRFY8ML)
Linux (System Z)	IBM Cognos Business Intelligence Server 64-bit 10.1.1 Linux on System z Multilingual (CI5W5ML)	IBM Cognos Business Intelligence Transformer 10.1.1 Linux on System z Multilingual (CI2QHML)	IBM Cognos Business Intelligence 10.1.1 Linux on System z Add-on Multilingual eAssembly (CRFZ6ML)
Windows	IBM Cognos Business Intelligence Server 64-bit 10.1.1 Windows Multilingual (CI5VMML)	IBM Cognos Business Intelligence Transformer 10.1.1 Windows Multilingual (Cl2Q1ML)	IBM Cognos Business Intelligence 10.1.1 Windows Multilingual eAssembly (CRFY3ML)

### **Creating the Connections Cognos and Metrics databases**

1. Using the database creation wizard for Connections, select both the Metrics and Cognos databases to create them on the database server. These databases must be created before you can continue with the Cognos setup.

If the databases are created successfully, you should see something like the following result:

Metrics Database name: METRICS Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful. Cognos Database name: COGNOS Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful.

Figure 1. Metrics and Cognos databases successfully created

## Creating the WebSphere Application Server profile for Cognos Server

The Cognos server needs its own dedicated WebSphere Application Server to be set up. You can either create a new profile under an existing WebSphere Application Server, or set up an extra WebSphere Application Server server. If you choose to set up a new server, be sure to install all the WebSphere Application Server fix packs so that the new WebSphere Application Server server is at the same level as the Deployment Manager you plan to federate into later.



In this document, a new profile is created on the existing node one application server that is used for Connections later. When finished, this node runs node one for Connections and the cognos\_server.

\_\_\_1. On node one on your Application Server, run the following command from /opt/IBM/WebSphere/AppServer/bin:

```
./manageprofiles.sh -create -templatepath
/opt/IBM/WebSphere/AppServer/profileTemplates/default -adminUserName
wasadmin -adminPassword wasadmin
```

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You should see output like the following example:

```
[root@myAppServer ~]# cd /opt/IBMWebSphere/AppServer/bin/
[root@myAppServer bin]# ./manageprofiles.sh -create -templatepath
/opt/IBM/WebSphere/AppServer/profileTemplates/default -adminUserName
wasadmin -adminPassword wasadmin
INSTCONFSUCCESS: Success: Profile AppSrv02 now exists. Please consult
/opt/IBM/WebSphere/AppServer/profiles/AppSrv02/logs/AboutThisProfile.txt
for more information about this profile.
[root@myAppServer bin]#
```

\_\_\_2. If you look under /opt/IBM/WebSphere/AppServer/profiles, you should see AppSrv01 (your Connections Application server profile) and AppSrv02 (your cognos\_server Application server profile).

## Setting up and configuring Cognos BI Server and Cognos transformer



The setup of both the Cognos BI Server and Cognos transformer is automated for Connections, so you do not need to set them up manually.

- \_\_\_\_1. Copy the Cognos BI Server and Cognos Transformer to your system. They should be copied into the WebSphere Application Server for which you created the previous profile.
- \_\_\_\_2. Extract the installation files from the Cognos BI Server and Cognos Transformer packages.
- \_\_\_\_3. Create the following directory and copy the installation files for each installation type

/opt/software/cognos/server
/opt/software/cognos/transformer

\_4. When finished, you should see something like this result:

```
root@myAppServer cognos]# pwd
/opt/software/cognos
[root@myAppServer cognos]# ls ./server/
documentation linuxi38664h zipfiles
[root@myAppServer cognos]# ls. ./transformer/
documentation linuxi38632 zipfiles
[root@myAppServer cognos]#
```

- \_\_5. Under /opt/software/<LC45build>/Lotus\_Connections\_Install/Cognos extract the CognosConfig.tar/zip.
- \_\_6. After you extracted it, go to

/opt/software/LCI45build>/Lotus\_Connections\_Install/Cognos/BI-Customization/ JDBC and copy the JDBC drivers for your database backend to this location. As in this example, where DB2 is being used, all JAR files are copied /home/db2admin/sqllib/java/ to this location. These files are needed to make a database connection to the Cognos and metrics databases that you previously created.

\_\_\_\_7. Configure the cognos-setup.properties file, which is used to provide the settings that are needed to perform the installation of the Cognos server and Cognos transformer. In the following table are the settings that you need to supply:

was.install.path=/opt/IBM/WebSphere/AppServer	The installation path where you installed your WebSphere Application Server. Not the profile name, but the actual installation path.
was.profile.name= <i>AppSrv02</i>	The name of the WebSphere profile where you install cognos_server.
was.local.admin.username= <i>wasadmin</i>	Your local admin user. You can use wasadmin.

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was.local.admin.password= <password></password>	Your local admin user's password.
was find hastname - my Ann Server ibm com	Fully qualified host name of this
was.iqun.nosiname=myAppServer.ibm.com	Application Server.
	The node name of your WebSphere
	Application Server profile. The node
cognos was node name=mvAnnServerNode02	name can be found in
cognos.was.noue.name=myAppServerNoueoz	<was.install.path>/profiles/<pro< td=""></pro<></was.install.path>
	file_Name>/logs/AboutThisProfile
	.txt.
cognos.was.server.name=cognos_server	Name of your Cognos server.
	The path to your installation files for the
cognos.biserver.issetup=/opt/software/cognos/server/l	Cognos BI Server, where you extracted
inuxi38664h/issetup	the installation files previously.
	The path to your installation files for the
cognos.transformer.issetup=/opt/software/cognos/tra	Cognos transformer, where you
nsformer/linuxi38632/issetup	extracted the installation files
	previously.
	The path where you want to install your
cognos.biserver.install.path=/opt/IBM/CognosServer	Cognos BI server. It does not need to
cognos.biserver.install.path=/opt/IBIM/CognosServer       exist and is created during the installation.         The path where you want to install	exist and is created during the
	The path where you want to install your
cognos.transformer.install.path=/opt/IBM/CognosTran	Cognos transformer. It does not need
sformer	installation
and the second of the second o	
cognos contextract=Cognos	Context route for your Cognes server
cognos admin username=wnshind	Important: Must be your LDAP user
cognos admin password= <password></password>	Reseword for your Cognos admin user.
cognos namospago=/BMConnections	The default is TRMConnections
	Path where the PowerCubes for
cognos cube path=/ont/IBM/Cognos-PowerCubes	Cognos is created <b>Important</b> . This
cognos.cube.patri-/opt/12m/cognos-rowercubes	nath must be created manually
cognos dh type=dh2	Your database type
cognos db host= <i>mvAppServer ibm com:50001</i>	Database server and port number
cognos de name=Cognos	Database name
cognos de user=db2admin	Database admin user
cognos db password= <password></password>	Database admin user's password
metrics db type=db2	Your database type
metrics db host=mvAppServer ibm com·50001	Database server and port number
metrics.db.name= <i>MFTRICS</i>	Database name
metrics db local name=MFTRICS	Database name
metrics db user=db2admin	Database admin user
metrice db naseword= <naseword></naseword>	Database adminuser's password
memosau.passwora-~passwora/	Database autilit uset s password.

\_\_\_8. Important: If you are using RedHat 6, verify that LD\_PRELOAD=/usr/lib64/libfreebl3.so is set in the terminal window before proceeding to the next step.

\_\_9. When all of the settings are entered run the ./cognos-setup.sh command to set up the Cognos server from /opt/software/<LC45build>/Lotus\_Connections\_Install/Cognos. Assuming that it runs successfully, you should see the following result when it is finished:

```
ADMA5016I: Installation of Cognos started.
ADMA5058I: Application and module versions are validated with version of deployment
targets.
ADMA5005I: The application Cognos is configured in the WebSpere Application Server
repository.
ADMA5053I: The library references for the installed optional package are created.
ADMA5005I: The application Cognos is configured in the Websphere Application Server
repository.
ADMA50011: The application binaries are saved in
/opt/IBM/WebSphere/AppServer/profiles/AppSrv02/wstemp/Script1385bf89a25/workspace/c
ells/myAppServerNode01Cell/applications/Cognos.ear/Cognos.ear
ADMA5005I: The application Cognos is configured in the Websphere Application Server
repository.
SECJ0400I: Successfully updated the application Cognos with the
appContextIDForSecurity information.
ADMA5005I: The application Cognos is configured in the WebSphere Application Server
repository.
ADMA5113I: Activation plan created successfully.
ADMA5011I: The cleanup of the temp directory for application Cognos is complete.
ADMA5013I: Application Cognos installed successfully.
... WebSphere configuration for Cognos completed
Applying customizations to Cognos Transformer...
mv /opt/IBM/CognosTransformer/bin/cogconfig.sh
/opt/IBM/CognosTransformer/bin/cogconfig.sh
cp -f
/opt/software/Lotus Connections In/Lotus Connections Install/Cognos/Transformer-Cus
tomization/bin/cogconfig.sh /opt/IBM/CognosTransformer/bin
chmod 550 /opt/IBM/CognosTransformer/bin/cogconfig.sh
ln -s /opt/IBM/CognosTransformer/bin/version.xml
/opt/IBM/CognosTransformer/bin64/version.xml
... applying customizations to Cognos Transformer completed
[root@myAppServer Cognos]#
Configure the cognos server. Run the ./cognos-configure.sh command within
/opt/software/IC45build/Lotus Connections Install/Cognos. Assuming this runs
successfully, you should see the following once it is finished:
[root@myAppServer Cognos]# ./cognos-configure.sh
Using Cognos setup properties file:
/opt/software/LC45build/IBM_Connections_Install_Linux/Cognos/cognos-setup.propertie
s
Performing validation check...
JAR file(s) found in JDBC driver directory:
/opt/software/LC45build/IBM Connections Install Linux/Cognos/BI-Customization/JDBC
was.install.path: WebSphere Application Server exists
Using profile: AppSrv02
cognos.was.node.name: Found node [myAppServerNode02]
cognos.biserver.issetup: Will use issetup to install Cognos BI Server
/opt/software/cognos/server/linux/38664h/issetup
cognos.transformer.issetup: Will use issetup to install Cognos Transformer
/opt/software/cognos/transformer/linux38632/issetup
```

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Using cognos.locale: EN All properties provided for Cognos database All properties provided for Metrics database /opt/software/LC45build/IBM Connections Install Linux/Cognos/lib /opt/software/LC45build/IBM Connections Install Linux/Cognos /opt/software/LC45build/IBM Connections Install Linux/Cognos com.ibm.net.SocketKeepAliveParameters JDBC Connection Success Success to verify the JDBC connection to Cognos Content Store database. com.ibm.net.SocketKeepAliveParameters JDBC Connection Success Success to verify the JDBC connection to Metrics database. ... performing validation check completed Configuring Cognos BI Server... /opt/software/LC45build/IBM Connections Install Linux/Cognos/bin/configBI.sh -setupPorp-/ opt/software/LC45build/IBM Connections Install Linux/Cognos/cognos-setup.properties -wasPath=/opt/ IBM/WebSphere/AppServer -cognosDBPassword-"\*\*\*" -adminUser-wasadmin -adminPassword-"\*\*\*" ... configuring Cognos BI Server completed Configuring Cognos Transformer... /opt/software/LC45build/IBM Connections Install Linux/Cognos/bin/configTransformer. sh -setupProp=/opt/software/LC45build/IBM Connections Install Linux/Cognos/cognos-setu p.properties -cognosSrvLink-http://myAppServer.ibm.com:9082/cognos -cognosCubePath="/opt/IBM/Cognos-PowerCubes" -metricsDBType=db2 -metricsDBName=METRICS -metricsDBLocalName=METRICS -metricsDBHost=myAppServer.ibm. com:50000 -metricsDBUser=db2admin -metricsDBPassword="\*\*\*" -cognosAdminUserName="wpsbind" -cognosAdminUserNS=IBMConnections -cognoseAdminUserPW="\*\*\*"

[root@myAppServer Cognos]#

\_ 10. Review the log file to ensure that there are no failures.

## Federating the Cognos Application Server into the Deployment Manager

Next, you must federate the application server into the deployment manager.

- \_\_\_\_1. Ensure that the clocks are in synch between your deployment manager and AppServer. Run ntpdate clock.redhat.com on your deployment manager and AppServer.
- \_\_\_\_2. Make sure that the deployment manager is started and the AppServer is stopped.
- \_\_\_3. Then, from within your /opt/IBM/WebSphere/AppServer/profiles/AppSrv02/bin run the following command:

./addNode.sh myAppServer.example.com -includeapps -user wasadmin -password wasadmin

\_\_\_\_4. If all goes well, you should see something like the following report results:

ADMU0016I: Synchronizign configuration between node and cell. ADMU0018I: Launching Node Agent process for node: myAppServerNode02 ADMU0020I: Reading configuration for Node Agent process: nodeagent ADMU0022I: Node Agent launched. Waiting for initialization status. ADMU0030I: Node Agent initialization completed successfully. Process ide is: 10600

ADMU0308I: The node myAppServerNode02 and associated applications were successfully added to the myAppServerCell1101 cell.

#### ADMU0306I: Note:

ADMU0302I: Any cell-level documents from the standalone myAppServerCell01 configuration have not been migrated to the new cell. ADMU0307I: You might want to: ADMU0303I: Update the configuration on the myAppServerCell1101 Deployment Manager with values from the old cell-level documents.

ADMU0003I: Node myAppServerNode02 has been successfully federated. [root@myAppServer bin]#

#### \_\_\_5. If you log in to your deployment manager at

http://myAppServer:9043/ibm/console/logon.jsp and then go to Servers > Server Types > WebSphere Application Servers, you should see something like this result:

You	can administer the follow	ing resources:		
	cognos server	myAppServerNode02	myAppServer.ibm.com	ND 7.0.0.21
	server1	myAppServerNode01	myAppServer.ibm.com	ND 7.0.0.21
	server1	myAppServerNode02	myAppServer.ibm.com	ND 7.0.0.21
Tota	13	Since in a second contraction of the	- 0	

Figure 2. Deployment manager: WebSphere Application Servers

You now federated a Cognos server into your deployment manager. Next, you must install the fix pack for Cognos.

### Installing Cognos fix pack

- \_\_\_\_1. Unpack the fix pack and run the setup wizard. You can take all the defaults of the setup wizard, and be sure to point the installation to wherever you installed the Cognos server. This document points to cognos.biserver.install.path=/opt/IBM/CognosServer.
- 2. If you are installing on RedHat 6, the fonts display incorrectly. There is no fix, so you must select the options in the wizard and move forward.
- \_\_\_\_3. Set up and Configure Cognos BI Server and Cognos Transformer after fix pack installation
  - \_\_\_\_a. If installing on RedHat 6, be sure LD\_PRELOAD=/usr/lib64/libfreebl3.so is set before proceeding.
  - \_\_\_\_b. Running the ./cognos-setup-update.sh script. This task updates the Cognos ear application and when complete, you should see something like the following result:

```
gen_war_without_docsamples:
      [war] Building war: /opt/IBM/CognosServer/temp/war/p2pd.war
ear_without_docsamples:
   [delete] Deleting: /opt/IBM/CognosServer/cognos.ear
     [copy] Copying 1 file to /opt/IBM/CognosServer/war/p2pd
      [ear] Building ear: /opt/IBM/CognosServer/temp/war/p2pd.ear
     [move] Noving 1 files to /opt/IBM/CognosServer
clean_jboss:
clean_sap:
clean_war:
   [delete] Deleting directory /opt/IBM/CognosServer/temp/war/p2pd
   [delete] Deleting: /opt/IBM/CognosServer/temp/war/p2pd.war
clean:
BUILD SUCCESSFUL
Total time: 59 seconds
popd
... generating Cognos EAR completed
removePassword = false
[root myAppServer Cognos]#
```

Figure 3. ./cognos-setup-update.sh script

- 4. Next, you must update the application on the admin console. Log in to your admin console https://myAppServer.example.com:9043/ibm/console/logon.jsp and go to Applications > Application Types > Enterprise Applications.
- \_ 5. Select the Cognos application and then **Update**.

\_6. Click Replace the entire application and enter the path of the updated cognos.ear file.

pica	For to be updated:
- see	lannanan b
lopi	cation update options
۰.	eplace the entire application
-u	pload an enterprise archive (*.ear) to replace the entire installed application.
	Specify the nath to the realizement ear file.
	C Local He system
	Choose Tile No file chosen
	E Remote file system
	Full path
٥.	aniana ao add a ainda madula
	the part to the new module matches an existing path to a module in the installed application, the new module replaces the existing module. If the path to the module does not
	cist in the installed application, the new module is added to the application.
¢,	eplace or edd a single file
24	the path to the new file matches an existing path to a file in the installed application, the new file replaces the existing file. If the path to the file does not exist in the installed policition, the new file is added to the application.
0,	eplace, add, or delete multiple files
0	se a compressed file format such as .sip or .gsip. The compressed file is unsipped into the installed application directory. If the uploaded files exist in the application with the same sthe and file names, the uploaded files replace the existing files. If the uploaded files do not exist, the files are added to the application. You can remove existing files from the stalled application by spaceta is in the compressed file.

Figure 4. Preparing for the application update

- \_\_\_7. Click **Next** to continue.
- \_\_\_8. For all of the remaining screens, select the defaults.
- \_\_\_9. On the summary page, click **Finish** to update the application. When complete, the following result is displayed:



Figure 5. Message "Application Cognos installed successfully"

- \_\_\_\_10. Click **Save** to save the application.
- \_\_\_\_11. Synch the nodes.
- \_\_\_\_12. Start the Cognos server.

\_\_\_\_13. It is important to start the Cognos server before the next task is run. Verify that this message appears in the logs to ensure that the Cognos server is running.

[3/19/13 21:05:27:635 GMT] 00000044 SystemOut O The dispatcher is ready to process requests.

Figure 6. Message appearing in the logs: Cognos is running

\_\_\_\_14. Run the following command:

./cognos-configure-update.sh

without the prior written permission of IBM.

```
15. This task customizes the Cognos application for Connections. When complete, you should
see something like the following result:
```

[root@myAppServer Cognos]# ./cognos-configure-update.sh Using Cognos setup properties file: /opt/software/LC45build/IBM Connections Install Linux/Cogn Performing validation check... JAR file(s) found in JDBC driver directory: /opt/software/LC45build/IBM Connections Install Linux/Cognos/BI-Customizatio n/JDBC was.install.path: WebSphere Application Server exists Using profile: AppSrv02 cognos.was.node.name: Found node [myAppServerNode02] cognos.biserver.issetup: Will use issetup to install Cognos BI Server /opt/software/cognos/server/linuxi38664h/issetup cognos.transformer.issetup: Will use issetup to install Cognos Transformer /opt/software/cognos/transformer/linuxi38632/issetup Using cognos.locale: EN All properties provided for Cognos database All properties provided for Metrics database /opt/software/LC45build/IBM Connections Install Linux/Cognos/lib /opt/software/LC45build /opt/software/LC45/IBM Connections Install Linux/Cognos com.ibm.net.SocketKeepAliveParameters JDBC Connection Success Success to verify the JDBC connection to Cognos Content Store database. com.ibm.net.SocketKeepAliveParameters JDBC Connection Success Success to verify the JDBC connection to Metrics database. ... performing validation check completed Configuring Cognos BI Server ... /opt/software/LC45build/IBM Connections Install Linux/Cognos/bin/configBI.sh -setupProp=/opt/s IBM/WebSphere/AppServer -cognosDBPassword="\*\*\*" -adminUser=wasadmin -adminPassword="\*\*\*" -update=true ... configuring Cognos BI Server completed Configuring Cognos Transformer... /opt/software/LC45/IBM Connections Install Linux/Cognos/bin/configTransforme r.sh -setupPr osSrvLink=http://myAppServer.ibm.com:9082/cognos -cognosCubePath="/opt/IBM/Cognos-PowerCubes" -met com:5000 -metricsDBUser=db2admin -metricsDBPassword="\*\*\*" -cognosAdminUserName="wpsbind" -cognosAdminUse

```
... configuring Cognos Transformer completed
```

#### **Configuring Cognos LDAP Security**

Next, you must add the LDAP security information into the Cognos configuration tool.

\_\_\_1. Export JAVA HOME. It must be exported before it can be run.



In this document, export JAVA\_HOME=/opt/IBM/WebSphere/AppServer/java is used.

- \_2. Run the cogconfig.sh from the same terminal window on VNC.
- \_\_\_3. Start the Cognos Configuration tool. On Linux, it is in /opt/IBM/CognosServer/bin64/cogconfig.sh.
- 4. Unlike in Connections 4.0, you now no longer need to configure security on the Cognos server itself, because it does a VMM lookup against the WebSphere security. However, you must still disable anonymous access.

Select Local Configuration > Security > Authentication > Cognos and set Allow anonymous access to "False".



#### Figure 7. IBM Cognos Configuration

\_\_\_5. Close the configuration tool.

6. **Important:** When exiting the Cognos Configuration tool, a window appears and asks if you want to start the service before exiting. Click **No**.



Figure 8. IBM Cognos Configuration - Message

You now have Cognos set up. You can now start the Cognos server and validate that it is working.

- \_\_\_\_7. Login to your deployment manager and go to Servers > Server Types > WebSphere Application Servers.
- \_\_\_\_8. Start the cognos server application. It should start cleanly.
- 9. If you have HTTP configured against your system, generate the plug-in, start up the HTTP server, and go to the URL http://myAppServer.example.com/cognos/servlet. You should see the following result, which confirms that Cognos is set up and running correctly. You can also go to http://myAppServer.ibm.com/cognos/servlet/dispatch/ext to confirm that it is working.

#### IBM Cognos

#### **Content Manager**

Build: 10.1.6235.621 Start time: Friday, April 12, 2013 12:20:01 PM IST Current time: Friday, April 12, 2013 12:27:38 PM IST State: Running

Figure 9. IBM Cognos Content Manager is running

IBM Cognos Connect	ion	Log Dn 🚯		1	9.	-14	<u>.</u>	8	-	Lase	d) -	9	•	199	M.
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Next, is the Connections installation.

## Installing Connections 4.5: Cognos and metrics-specific configuration



The whole Connections 4.5 setup is not described here. Here, you receive only what is specific for Cognos in the installation wizard.

\_\_\_\_1. **Important:** On the installation packages screen, verify that **Metrics** is selected to be installed. It is important, because the Cognos installation screen does not display if this item is not selected.

IBM Installati	ion Manager
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Select the I	reatures to install.
Install	Licenses Location Features Summary
Features	
⊤ 🗹 🔥 /	All Features
	Activities
	Blogs
	Communities
	Bookmarks
	Files
	Forums
<ul> <li>✓</li> </ul>	Metrics
	Mobile
	Moderation
	Profiles
<ul> <li>✓</li> </ul>	Wikis
□ Show de	pendencies
%- Selecte	d by Installation Manager because of dependencies
Details	
IBM® Inst	allation Manager 1.4.4
IBM® Insta	llation Manager

Figure 11. IBM Installation Manager - Installing packages

\_\_\_2. Click Next.

- \_\_\_\_3. Important: Continue through the installation until you get to the Connections Topology screen. On this screen, you see a WebSphere Application Server profile that contains cognos\_server. Verify that this node is not selected.
- \_\_\_\_4. On the database screen, you should see metrics that are listed. Make sure to include the database information here and validate when it is done.
- \_\_\_\_5. **Important:** On the Cognos screen, you must use your Cognos admin user that you used earlier and that is part of the LDAP. The local wasadmin user does not work.
- \_\_\_\_6. Select the node information and complete the details as in the following screen:
  - \_\_\_\_a. For the Cognos credentials:
    - Administrator user ID: wpsbind
    - Administrator passwords: wpsbind
  - \_\_\_b. For the node:
    - Name: myAppServerNode02
    - Host name: dubxpcvm/55.mul.ie.ibm.com
    - Server name: cognos server
    - Port: 80
    - Web context root: cognos

Fill in the configurations for th	ne packages.				
Install ) Licenses )	Location Features Summar				
Common Configurations	Common Configurations Cognos				
<ul> <li>Topology</li> <li>Database</li> </ul>	Cognos Credentials	administrator			
Cognos	Administrator user ID:	s autorisciacor.			
O Content Store O Notification	wpsbind				
	Administrator password:				
	[				
	Node				
	Node Select the node where the Cognos B Name:	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02 ‡ Host name:	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02 Host name: dubxpcvm766.mul ie.ibm.com	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02 ‡ Host name: dubxpcvm766.mul.ie.ibm.com Server name:	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02 ‡ Host name: dubxpcvm765 mullie.ibm.com Server name: cognos_server ‡	Server is installed			
	Node Select the node where the Cognos B Name: myAppServerNode02 Host name: dubxpcvm766.mul.ie.ibm.com Server name: cognos_server Port:	Server is installed			
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	Node Select the node where the Cognos B Name: myAppServerNode02 ‡ Host name: dubxpcvm765 mullie ibm.com Server name: cognos_server ‡ Port: 80 Web context root:	Server is installed			

Figure 12. IBM Installation Manager - Installing packages - Completing the configurations for the packages

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- \_\_\_\_7. Click **Validate**. If it fails, you see a red error on the top bar. If it is successful, no message is displayed.
- \_\_\_\_8. Click **Next** to continue and finish the installation as normal.
- 9. Perform any post-installation steps that are specific to Connections that you would normally do, such as configuring Search, HTTP, LotusConnections-config.xml, oAuth).

#### Changing the HTTP or HTTPs URLs for metrics in LotusConnections-config.xml to your WebServer for Cognos

1. The file LotusConnections-config.xml has URLs and ports hardcoded. They must be changed to your WebServer URL for the HTTP fronting your Cognos server.



In this document, the Cognos node is federated into the same cell as Connections, so the same HTTP server is used.

```
<sloc:serviceReference bootstrapHost="" bootstrapPort=""</pre>
clusterName="LCCluster" enabled="true" serviceName="metrics"
ssl enabled="true">
<sloc:href>
<sloc:hrefPathPrefex>/metrics</sloc:hrefPathPrefix>
<sloc:static href="http://myAppServer.example.com"</pre>
ssl href="https://myAppServer.example.com"/>
<slock:interService href="https://myAppServer.example.com"/>
</sloc:href>
</sloc:serviceReference>
<sloc:serviceReference bootstrapHost="" bootstrapPort="" clusterName=""</pre>
enabled="true" serviceName="cognos" ssl enabled="true">
<sloc:href>
<sloc:hrefPathPrefix>/cognos</sloc:hrefPathPrefix>
<sloc:static href="http://myAppServer.example.com"</pre>
ssl href="https://myAppServer.example.com"/>
```

<sloc:interService href="https://myAppServer.example.com"/>

</sloc:href>

</sloc:serviceReference>

\_\_\_\_2. When it is finished, synch the change to your nodes.

## Adding users or all authenticated in application's realm to metrics application

Now you must add users who can generate metrics.

- \_\_\_\_1. Log in to your admin console and select **Applications > Application Types > WebSphere** enterprise applications.
- \_\_\_2. Click Metrics.
- \_\_\_\_3. Click **Security role to user/group mapping** and add the users to the admin and metrics-report-run roles.

cation or module must map to a user or group from the domain user registry.	arraislds: The arraislds are inturned o	
ication or module must map to a user or group from the domain user registry.	arrayside: The arrayside are incomed of	
remano, for an other scenarios the accessId will be determined during the apply used for Java Platform. Enterprise Edition authorization when using the WebSph andrulungueBougID. Entering enong information in these fields will cause author the access. AlfAuthenticated: This indicates that any valid user in the current n	cation start based on the user or group tere default authorization engine. The fo prization to fail. All-witherritcatedInTruste ealm be given the access.	inty when using cross realm name. The eccessIds represent the umation the eccessIds is dRealms: This indicates that any valid
Map Special Subjects *		
Special subjects	Mapped users	Mapped groups
Everyone		
All Authenticated in Application's Realm		
Everyone		
All Authenticated in Application's Realm		
All Authenticated in Application's Realm	spabind	
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	almUniqueOnoupID. Entering enong information in these fields self cause author the access. AlMuthenbicabed: This indicates that any valid user in the current re Map Special Subjects + Everyone All Authenticated in Application's Realm Riveryone All Authenticated in Application's Realm All Authenticated in Application's Realm All Authenticated in Application's Realm All Authenticated in Application's Realm	alm/unique@roupID. Entering erong information in these fields all cause authorization to fail. AltAuthenticatedInTruste the access. AltAuthenticated in This indicates that any valid user in the current realm be given the access. Map Special Subjects •

#### Figure 13. Enterprise applications

\_\_\_\_4. Save the application and synch the nodes.

### Building the power cubes on Cognos

- \_\_\_1. Go to the /opt/IBM/CognosTransformer/metricsmodel/ directory.
- \_\_\_2. Run build-all.sh/bat to build the cubes.



You must do this step as a user who **has** access to the Connections databases for Cognos and metrics. So, if your Cognos Server is remote to the location of your database server, then you must set up a client to connect to the databases from your Cognos server to your database server.

- \_\_\_\_3. If using the DB2 client, set the client and create an instance by using the same name as the database administrator on your database server.
- 4. Catalog your server, node, and databases by using the following commands. Make sure to change the server name, node name, and port for your own database server:

db2 catalog tcpip node pvtdub1 remote pvtdub1.mul.ie.ibm.com server 50000 db2 catalog database metrics at node pvtdub1 db2 catalog database cognos at node pvtdub1

- \_\_\_5. When done, run the build-all.sh/bat to build the cubes.
- \_\_\_\_6. If you are on RedHat 6, you must export LD\_PRELOAD=/usr/lib/libfreebl3.so, not /usr/lib64/libfreebl3.so. The reason is that the transformer for Cognos is a 32-bit application and the 64-bit binary files do not work.
- \_\_\_7. Check the file trxschelog.log file under /opt/IBM/CognosTransformer/metricsmodel for errors and success. If it goes well, you should see 20120709085253 : build all data success.
- \_\_\_8. When done, done restart everything and log in to Connections.

### \_\_\_\_9. Create some content and then go to metrics. You should see the graphs and metrics for your deployment.

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people who logged in to this	community at least once.	Number of unique authenticated visitors T	=	2
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Figure 14. Building power cubes on Cognos

### IIV.