Guide for Deploying Cognos BI With Informix Dynamic Server

Environment:

Windows 7 64 bit Cognos BI Server 10.2.1 Informix Dynamic Server 11.70

This article will give a guide to show using IDS as the content store and data source for Cognos BI server. There are three parts as bellow:

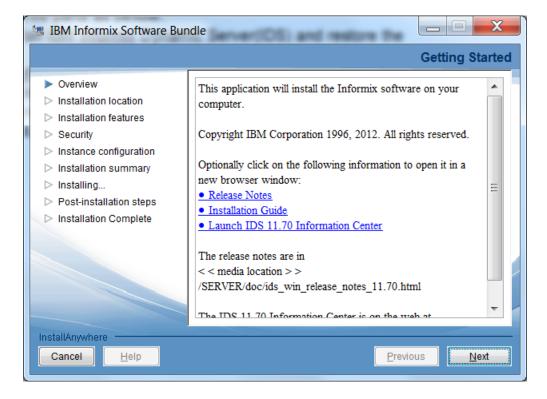
Part One – Install Informix Dynamic Server 11.70

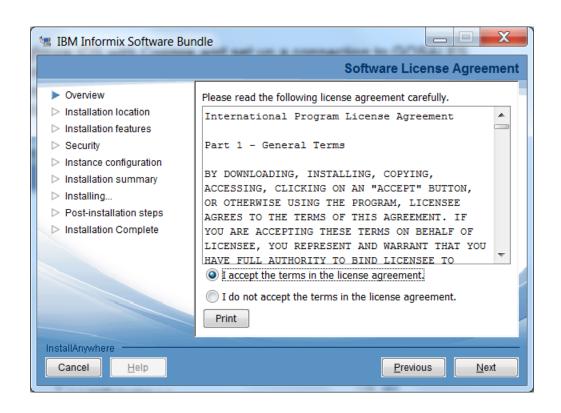
Part Two – Set IDS as the content store for Cognos BI

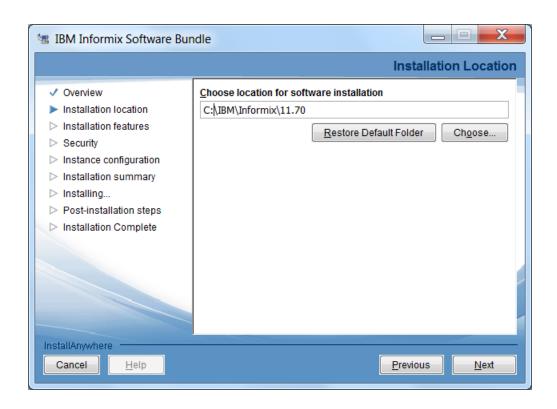
Part Three - Set IDS as the data source for Cognos BI

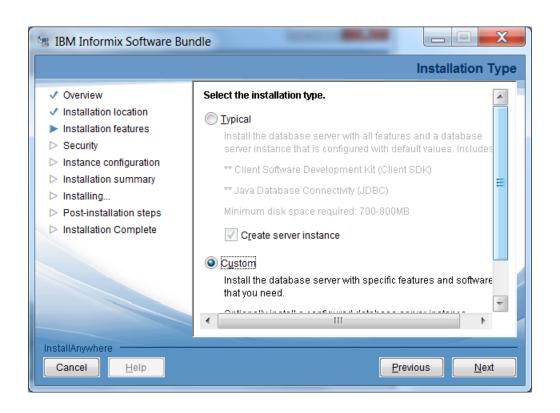
Part One - Install Informix Dynamic Server 11.70

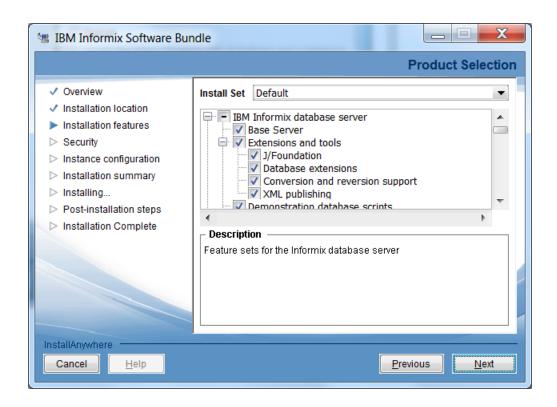
- Download and install IBM Informix Dynamic Server You can search IBM Informix Dynamic Server 11.7 from: http://w3-103.jbm.com/software/xl/download/ticket.do
- 2. The install process is as below screen shot:

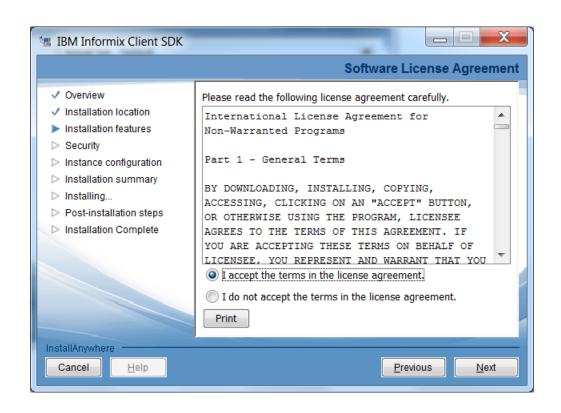


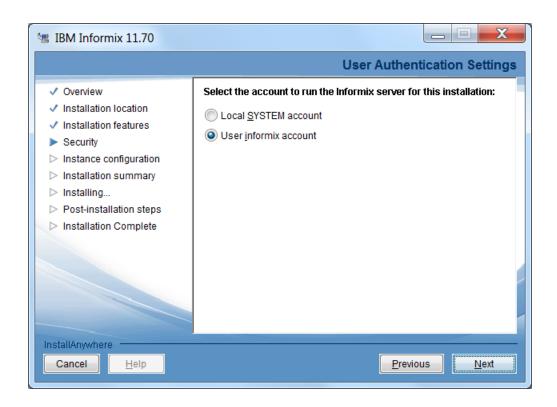


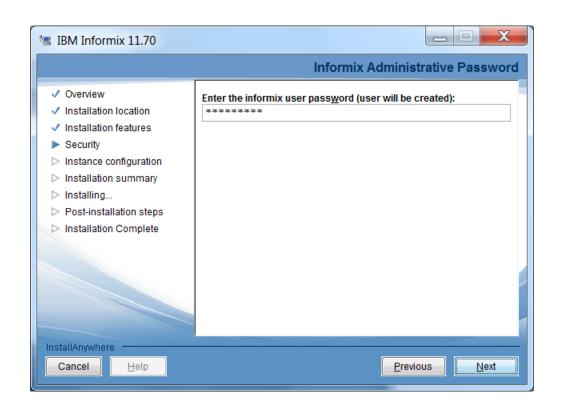


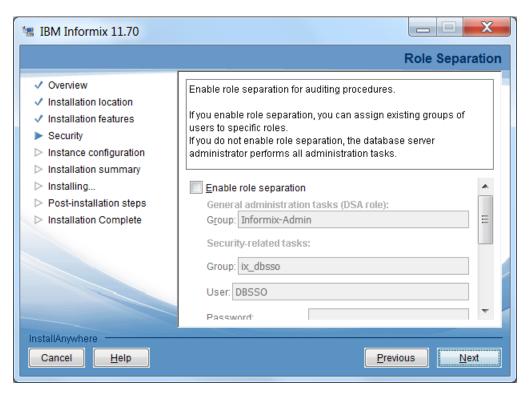


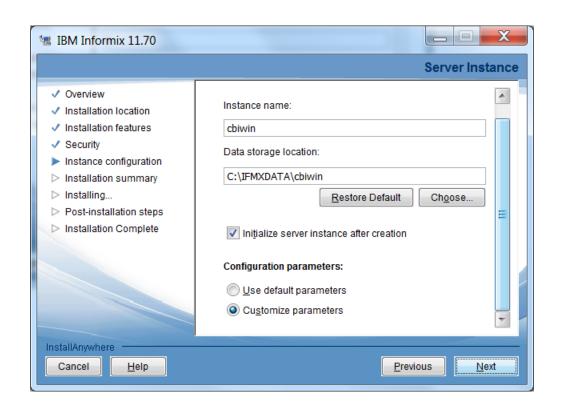


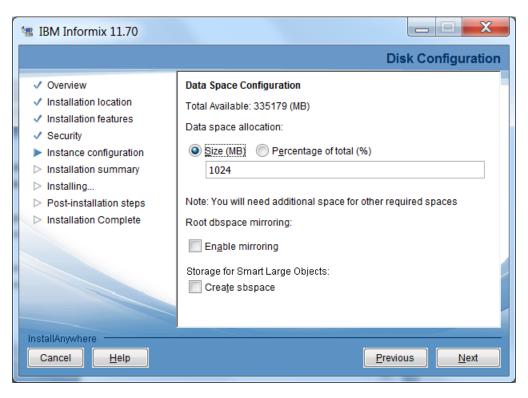


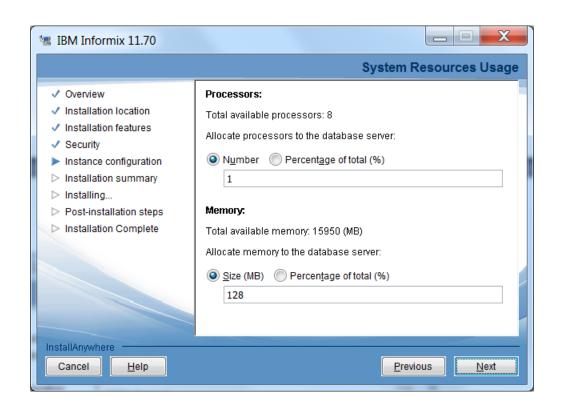


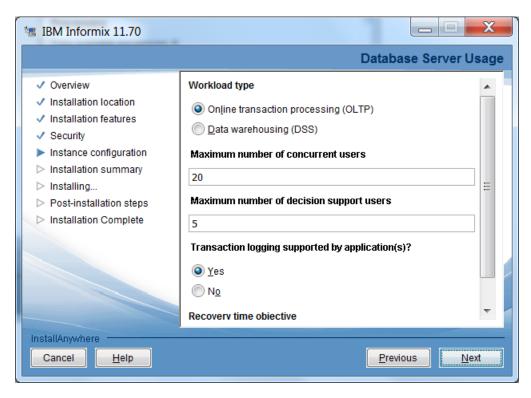






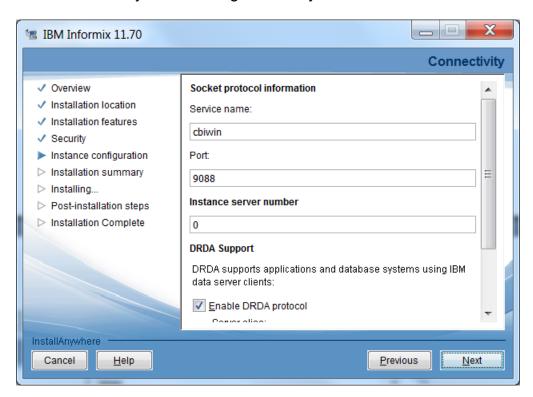


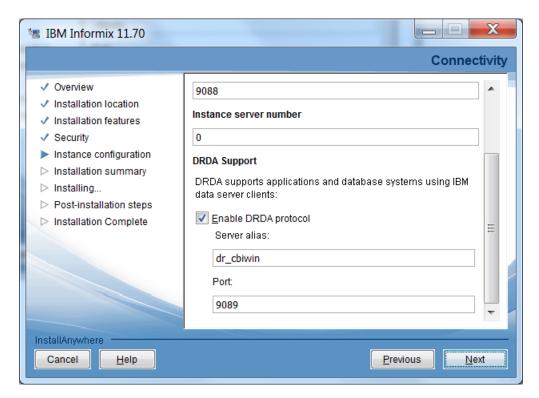




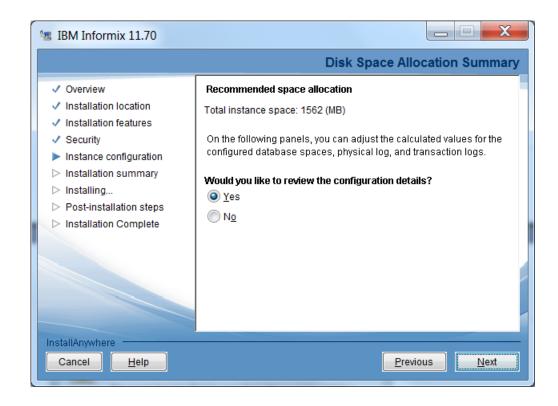
Next step is very important, Cognos content store must use DRDA protocol to connect with Informix database.

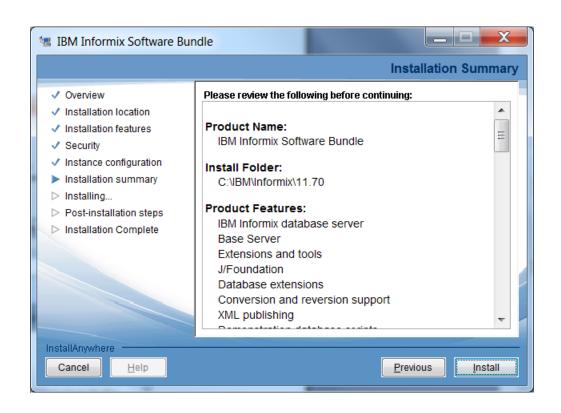
The Service name and Port you can change to what you like.

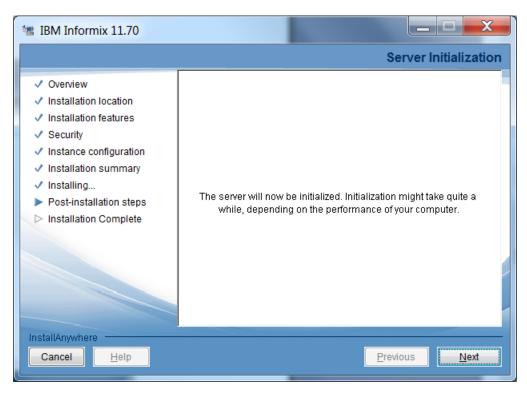


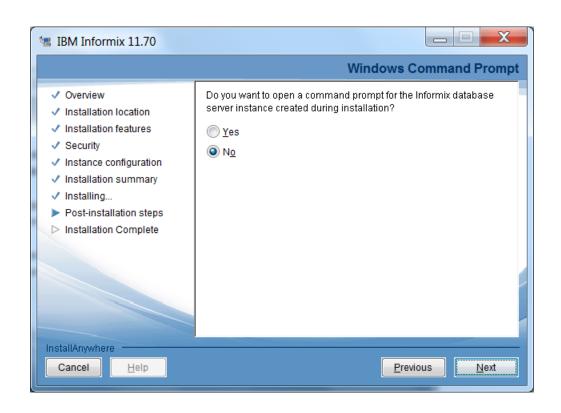


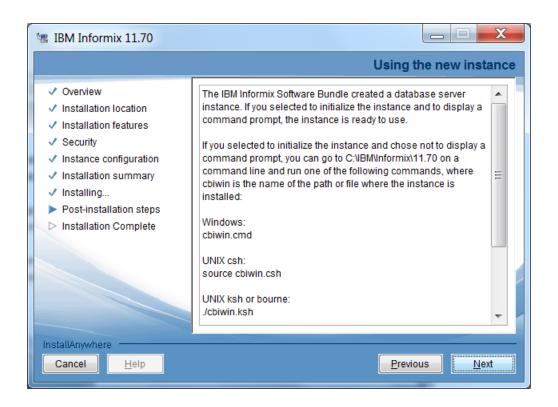


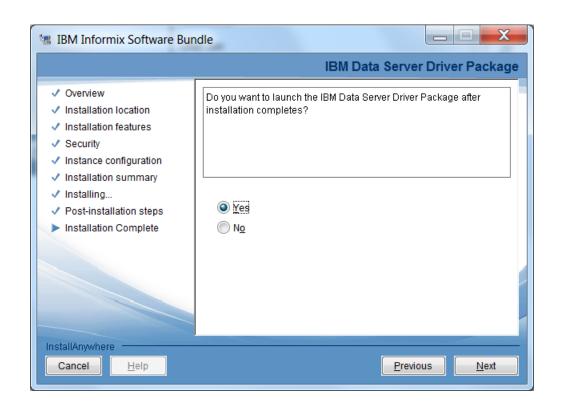


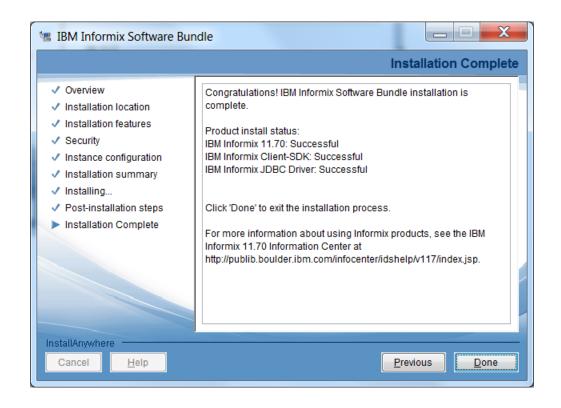












Now the install process has finished.

The information of new IDS instance as below:

Server Name: cbiwin

Service Name for SQLI connections: cbiwin

Port number for SQLI: 9088

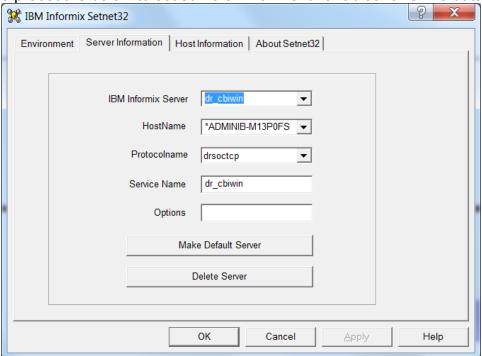
Server number: 0

Server Alias for DRDA support: dr_cbiwin

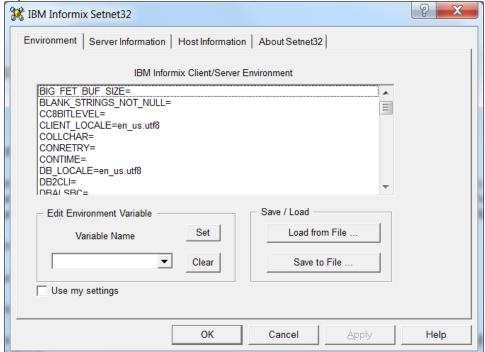
Port number for DRDA support: 9089

Part Two - Set IDS as the content store for Cognos BI

Set Informix database environment
 Follow the procedure below to set some environment variables for UTF8 databases.



1) Start Setnet32 by clicking Start -> All Programs -> IBM Informix Clinet SDK 11.70 -> Setnet32.2) From the Server Information tab, select the IBM Informix server dr cbiwin.

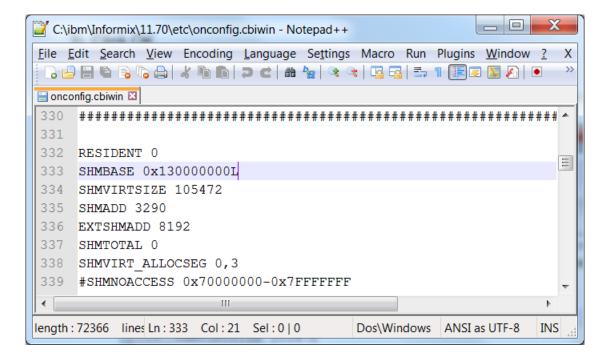


3). Click the Environment tab and set the following environment variables:

Set the value for below parameters: CLIENT LOCALE=en us.utf8

DB_LOCALE=en_us.utf8
GL_USEGLU=1
INFORMIXSERVER=cbiwin

- 3). Click OK.
- As Cognos recommendations, in the ONCONFIG.cbiwin file (%INFORMIXDIR%\etc\%ONCONFIG%), set the property SHMBASE to at least 0x13000000L.



- 3. Restart the Informix instance service (Informix IDS –cbiwin) in the windows services.
- 4. As Cognos recommendations, create two sbspaces namely CMDATASPACE and CMOBJPROPS7SPACE, with the logging turned on. Follow the below procedure:
 - 1) Set up cbiwin environment, using notepad open %INFORMIXDIR%\cbiwin.cmd, enter below parameters:

```
Eile Edit Format View Help

Set INFORMIXDIR=C:\IBM\Informix\11.70

Set REGMACHINE=\ADMINIB-M13POFS

Set INFORMIXSERVER=cbiwin

Set ONCONFIG=onconfig.cbiwin

Set PATH=%INFORMIXDIR%\bin:%PATH%

Set CLIENT_LOCALE=en_us.utf8

Set DB_LOCALE=en_us.utf8

Set DBDATE=Y4MD

Set GL_USEGLU=1
```

2) Start cbiwin by clicking Start -> All Programs -> IBM Informix 11.70 -> cbiwin.

Input below commands:

```
type NUL > C:\IFMXDATA\cbiwin\CMDATASPACE.000
type NUL > C:\IFMXDATA\cbiwin\CMOBJPROPS7SPACE.000
onspaces -c -S CMDATASPACE -p C:\IFMXDATA\cbiwin\CMDATASPACE.000 -o 0 -s
300000 -Df "LOGGING=ON"
onspaces -c -S CMOBJPROPS7SPACE -p C:\IFMXDATA\cbiwin\CMOBJPROPS7SPACE.000 -o
0 -s 300000 -Df "LOGGING=ON"
```

```
_ D X
Administrator: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\IBM Informix 11.70 (64-bit)\cbiwin.lnk
crosoft SQL Server\100\Tools\Binn\USShell\Common7\IDE\;C:\Program Files (x86)\Microsoft Visual Studio 9.0\Common7\IDE\PrivateAsse
hon27;C:\cygwin\bin;C:\Program Files (x86)\ibm\gsk8\lib;C:\java\jdk1.7.0_13\bin;C:\java\jdk1.7.0_13\jre\bin; ;C:\Informix\Connect
\lib;C:\PROGRA~2\ibm\gsk7\bin;C:\PROGRA~2\ibm\gsk7\lib;C:\Program Files\Intel\WiFi\bin\;C:\Program Files\Common Files\Intel\Wirel
  \IBM\Informix\11.70>set CLIENT_LOCALE=en_us.utf8
C:\IBM\Informix\11.70>set DB_LOCALE=en_us.utf8
C:\IBM\Informix\11.70>set DBDATE=Y4MD
C:\IBM\Informix\11.70>set GL_USEGLU=1
C:\IBM\Informix\11.70>type NUL > C:\IFMXDATA\cbiwin\CMDATASPACE.000
C:\IBM\Informix\11.70>tupe NUL > C:\IFMXDATA\cbiwin\CMOBJPROPS7SPACE.000
 :\IBM\Informix\11.70>onspaces -c -S CMDATASPACE -p C:\IFMXDATA\cbiwin\CMDATASPACE.000 -o 0 -s 300000 -Df "LOGGING=ON"
 erifying physical disk space, please wait
Space successfully added.
 * WARNING ** A level 0 archive of Root DBSpace will need to be done.
C:\IBM\Informix\11.70>onspaces -c -S CMOBJPROPS7SPACE -p C:\IFMXDATA\cbiwin\CMOBJPROPS7SPACE.000 -o 0 -s 300000 -Df "LOGGING=ON"
 Jerifying physical disk space, please wait ...
Space successfully added.
 × WARNING ×× A level 0 archive of Root DBSpace will need to be done.
C:\IBM\Informix\11.70>_
```

- 3) Now we are ready to create a database for the content store. The content store database has to be created with "log mode ANSI". Save the following "CREATE DATABASE" SQL statement into a file called create_csdb.sql at %INFORMIXDIR% CREATE DATABASE csdb WITH LOG MODE ANSI;
- 4) Run the create_csdb.sql script with the following command at the cbiwin command prompt

dbaccess - create csdb.sql

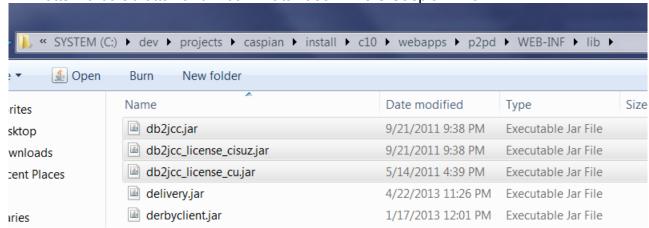
5. Set the following system environment variables:

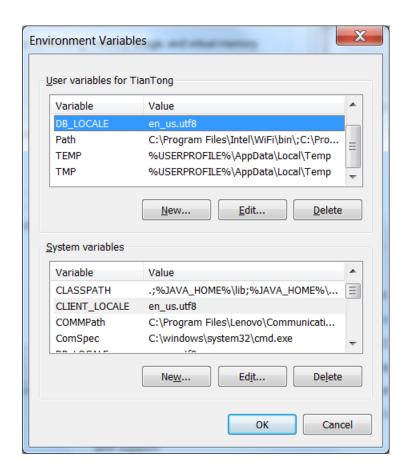
```
DB LOCALE to en us.utf8 (User)
```

```
CLIENT_LOCALE to en_us.utf8 (System)
GL USEGLU to 1 (System)
```

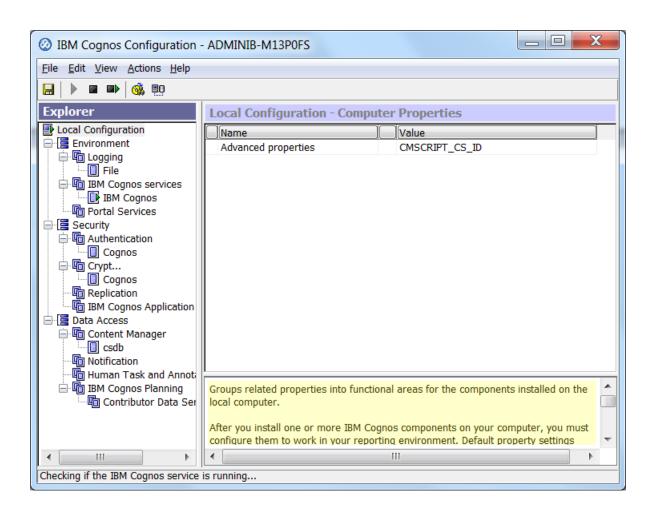
6. We have already installed IBM Data Server Driver for JDBC. Copy db2jcc.jar file from <DataServerDriver_location>\java to
<c10 location>\webapps\p2pd\WEB-INF\lib folder.

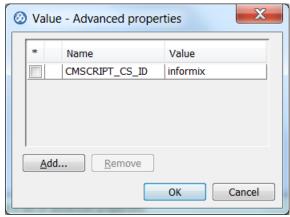
If you do not have drivers you can find them bellow \\wottsmithdalab.ottawa.ibm.com\DataBase Drivers\Caspian\Informix



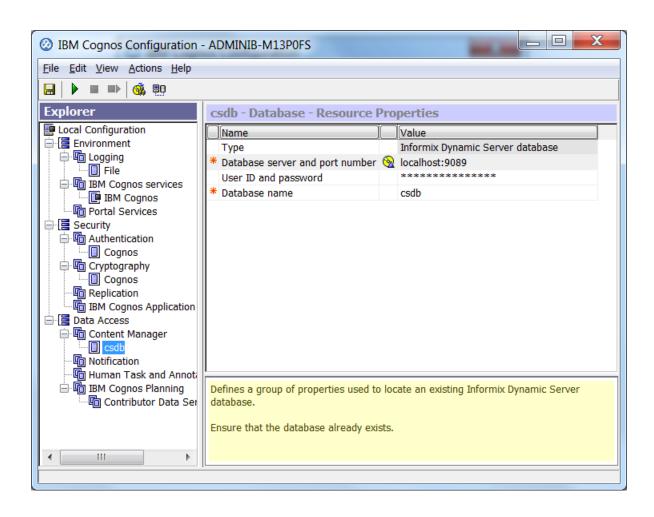


7. Set Advanced properties in Cognos Configuration:





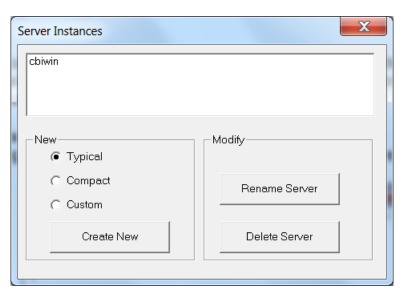
8. Set Informix as content store as below and test it.

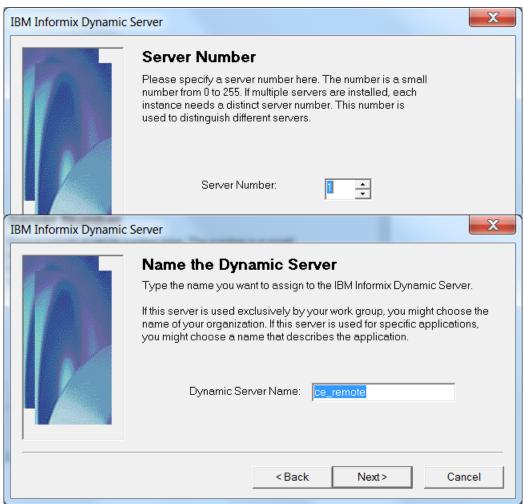


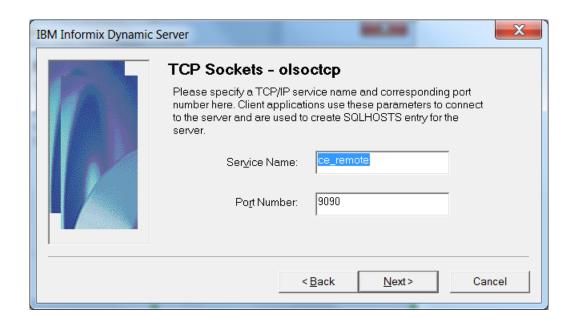


Part Three - Set IDS as the data source for Cognos BI

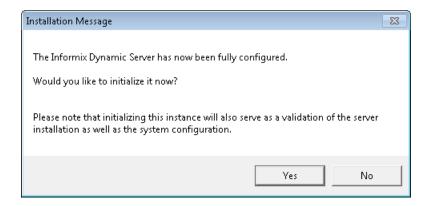
 Create a new server instance.
 Start -> All Programs -> Informix Dynamic Server 11.70 -> Server Instance Manager Click create new, the process as below screen shot:



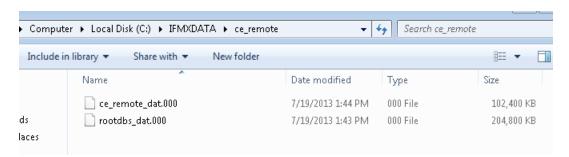




Click next, you need to input you password, and then click yes for initialize it now



2. Extend table Dbspace and restore database.



The default size of ce_remote_dat.000 is 100M, we should extend the space, the method as below:

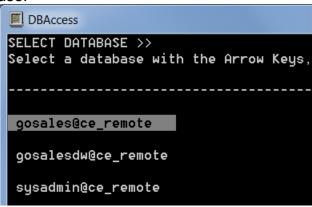
- 1) Create new files named ce_remote_dat.001 and ce_remote_dat.002 under %IFMXDATA%\ce_remote_directory.
- 2) Start -> All Programs -> Informix Dynamic Server 11.70 -> ce_remote Input below command:

```
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote_dat.001 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote\ce_remote\ce_remote_dat.002 -s 300000 -o
onspaces -a ce_remote -p c:\IFMXDATA\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remote\ce_remot
```

- 3) Copy gosales.exp and gosalesdw.exp to %INFORMIXDIR%. You can search Cognos Informix Sample from:http://w3-103.ibm.com/software/xl/download/ticket.do
- 4) Restore GOSALES and GOSALESDW database. Input the command as below:

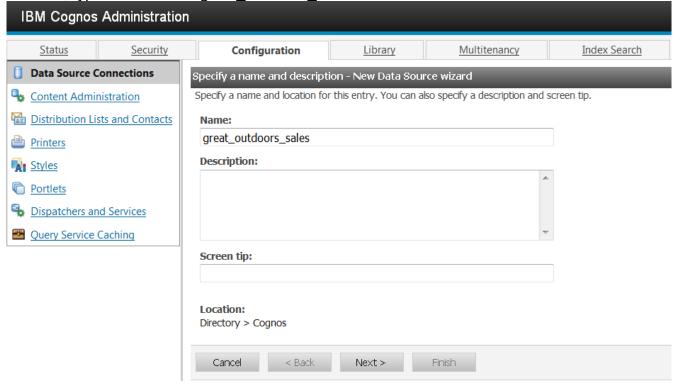
```
dbimport -ci gosales -d ce_remote
dbimport -ci gosalesdw -d ce remote
```

When finished , you can input command : dbaccess and select database. You can see the two database.

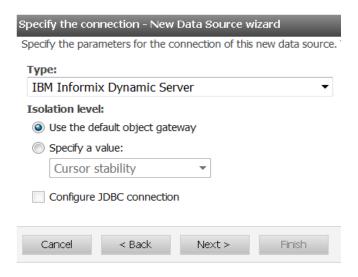


3. Add new data source connection for Cognos.

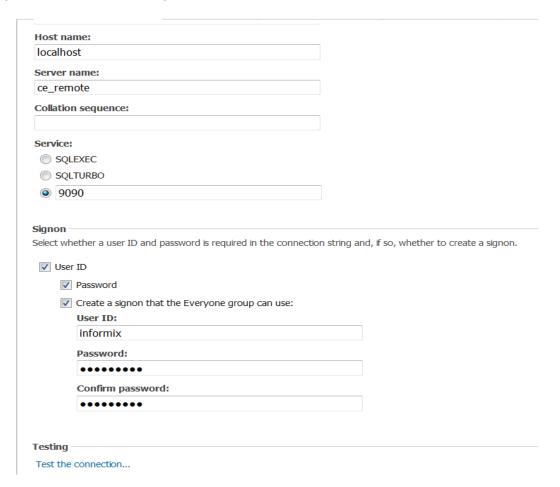
1) In IBM Cognos Administration, select Configuration table, click add new data source icon, type the name as great outdoors sales.



2) Select type as IBM Informix Dynamic Server



3) Input Informix database parameters as below:



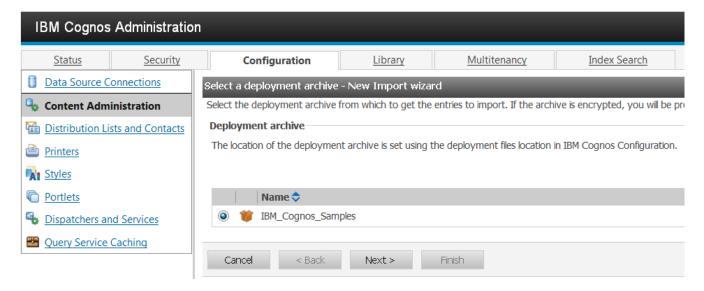
4) Click test the connection



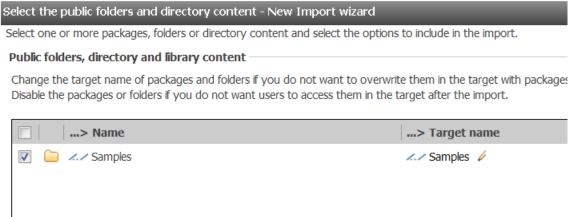
5) Do the same process add new great_outdoors_warehouse connection with informix

database gosalesdw.

- 4. Import sample package
 - 1) Copy the IBM_Cognos_Samples.zip file from the c10_location/webcontent/samples/content directory to the c10_location/deployment directory.
 - 2) On the Welcome page, click Administer IBM Cognos Content. On the Configuration tab, click Content Administration. On the toolbar, click New Import.



- 3) Click next ,type a unique name and an optional description and screen tip for the deployment archive, select the folder where you want to save it, and then click Next.
- 4) In the Public Folders Content pane, select the folders that you want to import.



- 5) Click next, Review the summary information and click Next. To run once now or later, click Save and run once. Click Finish.
- 6) Select run options, and click run.