



WORKFORCE PLANNING BLUEPRINT WORKFORCE PLANNING SETUP GUIDE A WEB-BASED PERFORMANCE MANAGEMENT SOLUTION



Table of Contents

Blueprint Overview	3
Making Content Files Available for Each Application	4
2.1 Unzipping the 'Workforce Planning Blueprint Content'	4
2.2 Copying the Necessary Files	4
IBM Cognos TM1 Content	5
3.1 Configure a new IBM Cognos TM1 Server instance	5
3.1.1 Copy the tm1s.lic File	5
3.1.2 Modify the Tm1s.cfg server configuration file	5
3.1.3 Modify/Create the Server Shortcut	6
3.2 Testing the new IBM Cognos TM1 Server instance	7
3.3 Setting Up the Contributor Application	9
IBM Cognos 8 BI Content	14
4.1 Create the BI data source	14
4.2 Import BI Deployment Package	19
4.3 Testing IBM Cognos Dashboard Content	23



Blueprint Overview

This document explains the content and provides installations steps for a web-based solution reporting for the Workforce Planning Blueprint.

IBM Cognos Blueprints are pre-defined data, process, and policy software models developed in partnership with leading academic institutions to address specific business process problems. They are essentially “quick-start” data models that IBM Cognos customers can download and implement at no extra cost.

Using the Blueprint with your IBM Cognos performance management system will enable users to clearly identify strategic performance and track it in a consistent, logical manner. It also provides a simple yet powerful way to monitor different Metrics and KPIs to better evaluate and take actionable items to increase performance.

Blueprint Contents:

1. **Workforce Planning Blueprint Content.zip**
This is the entire file structure for the BI deployment, Framework Manager Model, TM1 model and graphics with a categorized folder structure to house the extracted files.
2. **WorkforcePlanning V2 TM1 Application.zip**
This file contains the TM1 Workforce Planning Application files. The TM1 Application will must be configured to point at your existing TM1 9.5 Environment.
3. **Workforce Planning BI Deployment.zip**
This is the BI Deployment file consisting of reports and portal pages specific to this Blueprint.
4. **Workforce Planning Blueprint Setup Guide.pdf**
Description of the necessary files and steps needed to setup both environments for the Planning and BI portions of the Blueprint.
5. **Workforce Planning Images.zip**
Images required when rendering dashboards and reports (for this blueprint there are no images).
6. **Workforce Planning V2.zip**
This file is the Contributor Deployment file which will be imported through the TM1 Administration user interface.
7. **Workforce Planning.Ink**
This is a shortcut which can be modified to launch the Workforce Planning Blueprint TM1 Application.



Making Content Files Available for Each Application

2.1 Unzipping the 'Workforce Planning Blueprint Content'

Unzipping the '**Workforce Planning Blueprint Content**' file will create the following directories:

Name ▲	Size	Type	Date Modified
Deployment File - Reports		File Folder	12/22/2009 1:08 AM
Documentation		File Folder	12/22/2009 12:26 AM
Framework Manager Model		File Folder	12/22/2009 12:44 AM
Graphics, Files, etc		File Folder	12/22/2009 12:26 AM
TM1 Application		File Folder	12/22/2009 12:48 AM
TM1 Application Shortcut and Deployment		File Folder	12/22/2009 12:49 AM

* We will reference these directories, which store the pertinent files.

2.2 Copying the Necessary Files

1. Copy the "**Workforce Planning BI Deployment.zip**" file from the '**Deployment File – Reports**' folder to the **<IBM Cognos 8 install location>\deployment** folder.

Note: Depending upon the BI environment configuration the location of the deployment folder may be setup to a different server, confirm the location with the BI administrator.

2. Copy the contents from the '**Graphics, Files, etc**' folder to the **<IBM Cognos 8 install location>/webcontent/samples/images** folder.
(For the Workforce Planning Blueprint there are no images)

Note: For multi-server installation the images would need to be copied over the Gateway servers. Verify with the BI Administrator the architecture of the BI environment before copying the files

3. Copy the contents of the 'TM1 Application' folder and both files located in the TM1 Application Shortcut and Deployment folder to a directory of your choice, for example purposes we will use
C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint



IBM Cognos TM1 Content

The following steps will navigate through the steps required to create a new IBM Cognos TM1 Server instance and configure the objects needed for the IBM Cognos TM1 content to work properly.

3.1 Configure a new IBM Cognos TM1 Server instance

The following steps provide a quick guideline on how to get a new IBM Cognos TM1 server instance, however a more detailed explanation can be found in the IBM Cognos TM1 Server Administration document.

To configure a new IBM Cognos TM1 Server instance the following files are required:

1. Tm1s.cfg
2. Tm1s.lic
3. A shortcut to execute tm1s.exe using the Blueprint content as the working directory.

3.1.1 Copy the tm1s.lic File

The **tm1s.lic** file is included in your IBM Cognos TM1 installation. This file can be copied from <YourIBMCognosTM1_DirectoryInstall>/bin folder. The content of this file is similar to:

```
DATABASE_TYPE=TM1 PROPRIETARY
CLASS=505
LICENSE=<YourLicense>
MAX_USERS=99999
MAX_READONLY_USERS=99999
EXPIRE_DT=<YourExpiryDate>
LOCATION=
ORGANIZATION=<YourCompany>
LICENSOR=16699
INSTALL_ID=13108
PRODUCT=TM1Server8
.....
```

Copy the **tm1s.lic** file to 'C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint' to create a new server instance.

3.1.2 Modify the Tm1s.cfg server configuration file

From the 'C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint' folder, modify the 'tm1s.cfg' file.



This file needs to be modified to **point to the IBM Cognos TM1 Admin Server on your environment.**

The file is provided as:

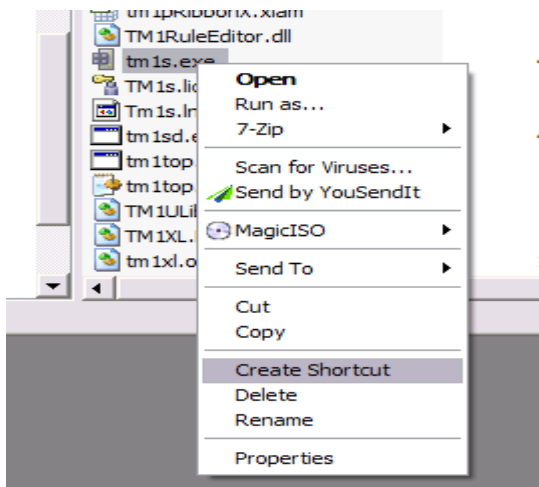
```
[TM1S]
ServerLogging=F
SecurityPackageName=Kerberos
IntegratedSecurityMode=1
UseSSL=T
ServerName=Financial Analytics
DataBaseDirectory=C:\IBM\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint
AdminHost=localhost
PortNumber=11111
ClientMessagePortNumber=12346
Language=ENG
SaveTime=
DownTime=
ProgressMessage=True
AuditLogOn=F
AuditLogMaxFileSize=100 MB
AuditLogUpdateInterval=60
DefaultMeasuresDimension=T
```

The parameters highlighted in **red** need to be reviewed and modified accordingly for your company's environment. If there is certainty that the default TCP ports above are not being used, they can be left unchanged.

The "AdminHost" parameter would need to be changed to reflect the IBM Cognos TM1 Admin Sever host setting in your environment.

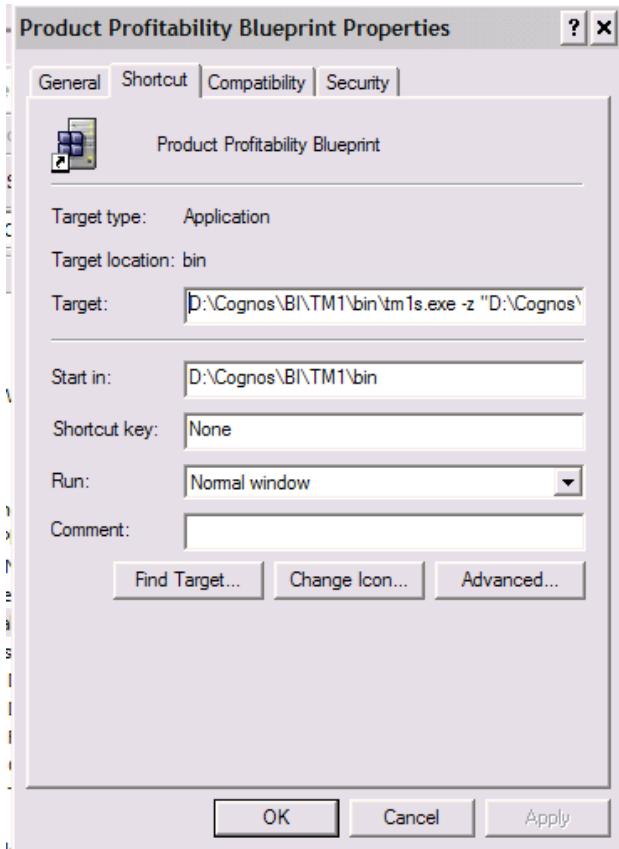
3.1.3 Modify/Create the Server Shortcut

Navigate to '<YourIBMCognosTM1_DirectoryInstall>/bin' folder; **create a shortcut** to tm1s.exe.





1. **Copy the shortcut** created to '**C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint**'
2. **Rename the shortcut** to be "Workforce Planning Blueprint"
3. **Edit the Shortcut Properties**



The **"Target"** property of the shortcut needs to be changed to read:

<YourIBMCognosTM1InstallFolder>\bin\tmls.exe -z 'C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint'

Notice that the last portion of the command is the folder where the IBM Cognos TM1 content was extracted to.

Click onto **OK** to save the changes.

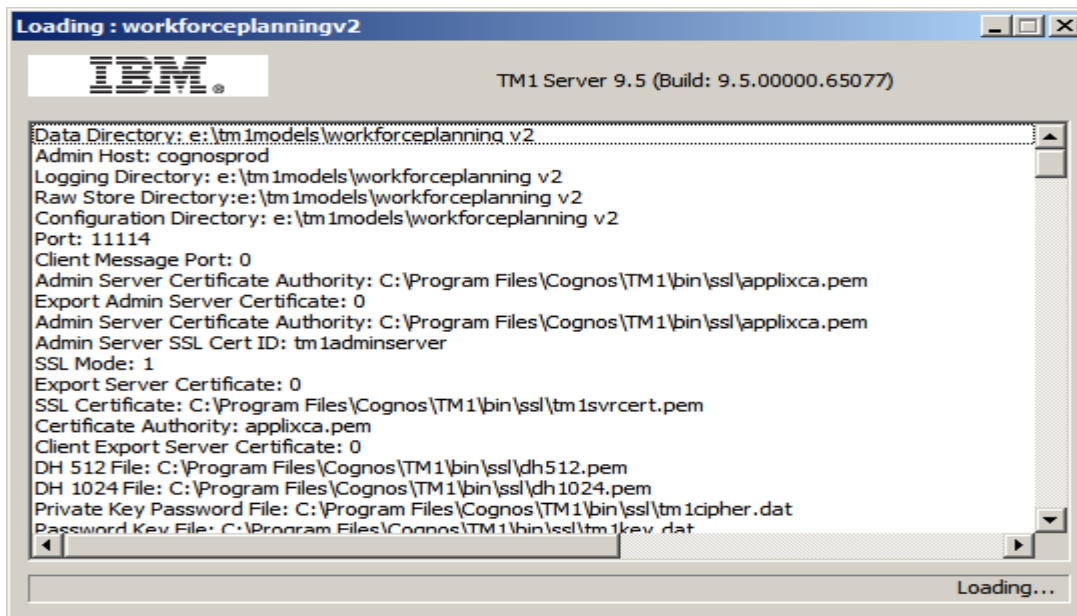
An example of the Workforce Planning Blueprint shortcut has been included in the TM1 Application Shortcut and Deployment Folder

3.2 Testing the new IBM Cognos TM1 Server instance

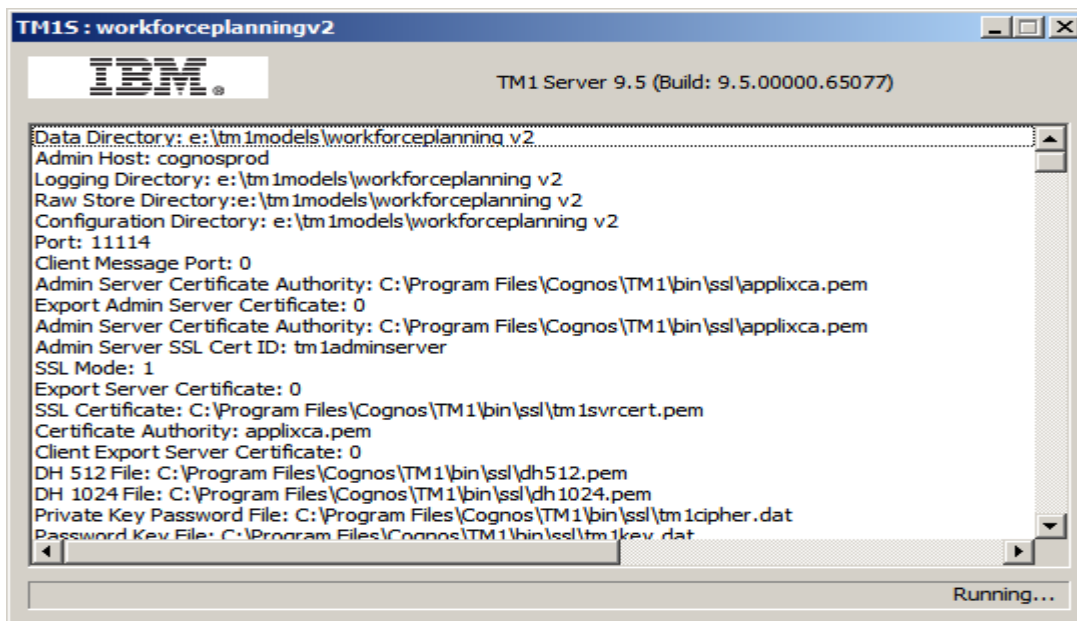
From the '**C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint**' folder, double click the 'Workforce Planning Blueprint' shortcut.



The following dialog will appear:



After all cubes have been loaded, the lower right corner of the dialog will display **Running...**:



Once the newly created IBM Cognos TM1 Server instance is up and running, Architect and/or IBM Cognos TM1Web can be used to navigate through the content.

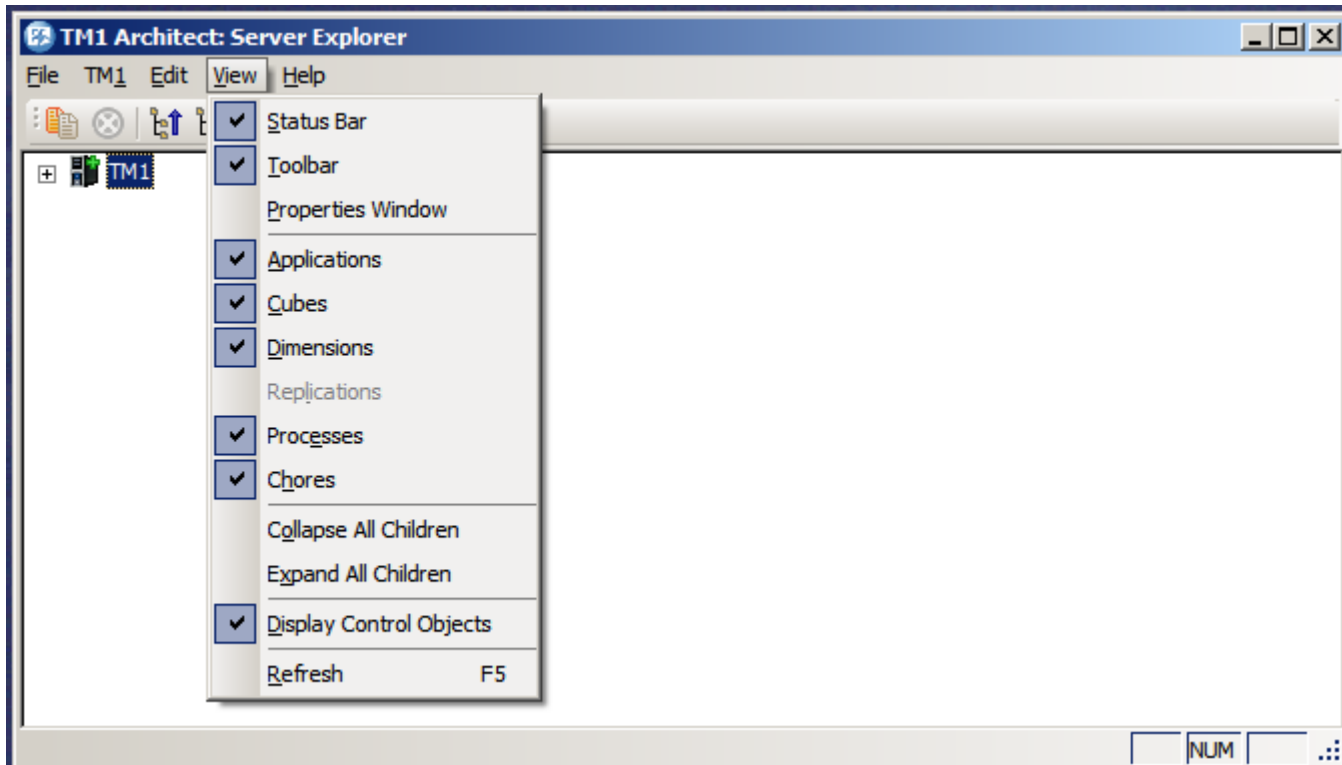


3.3 Setting Up the Contributor Application

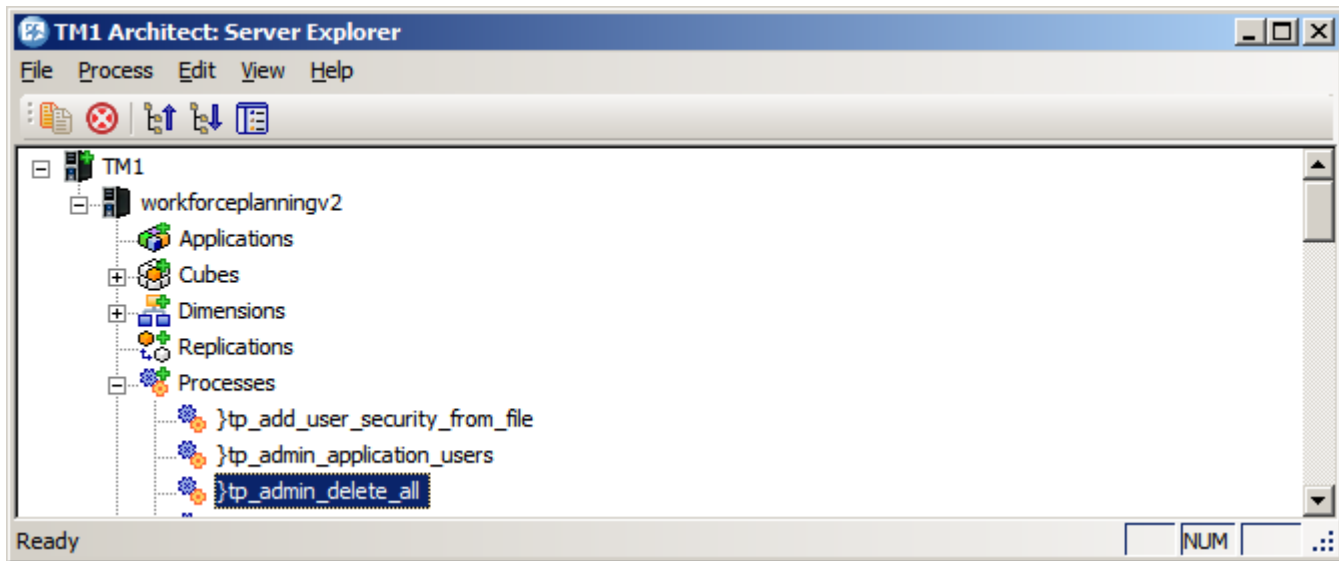
3.3.1 Open TM1 Architect

3.3.2 Double click the **workforceplanningv2** application and **Login** as User: **admin** and Password: **apple**

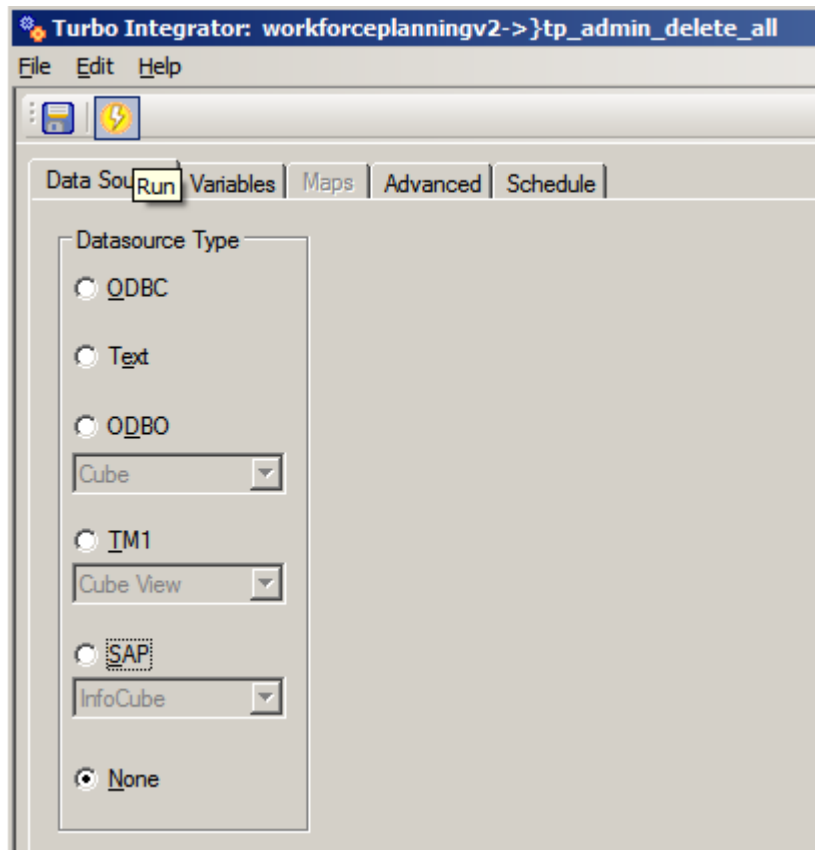
3.3.3 Click on the Menu Item – **View** and validate **Display Control Objects** is **checked**



3.3.4 Expand **Processes** node and double click **}tp_admin_delete_all**



3.3.5 Click run

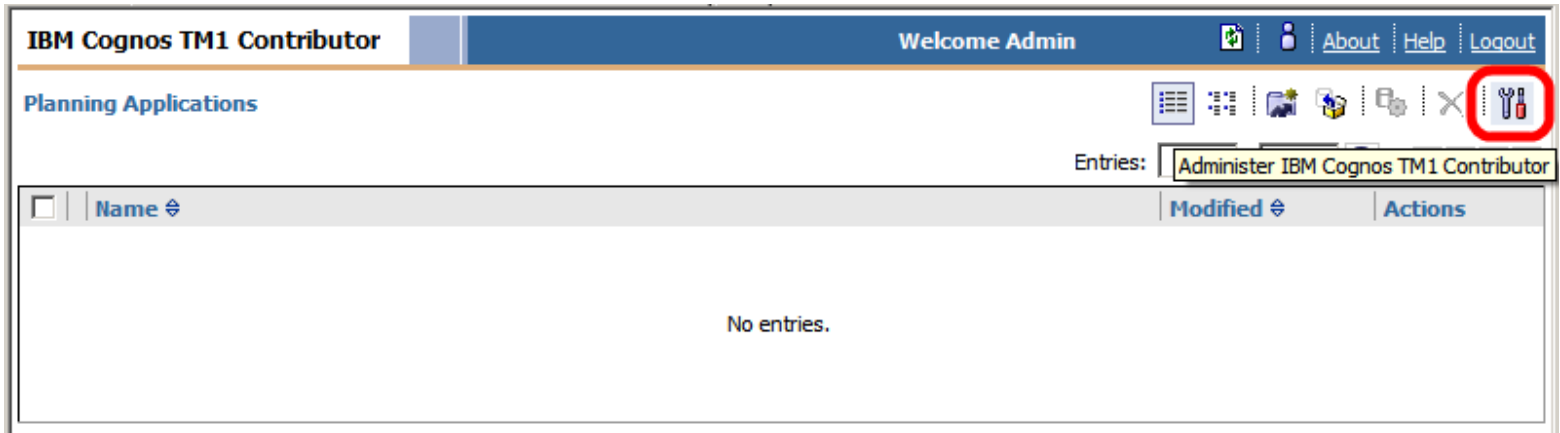


3.3.6 Copy the "Workforce Planning V2.zip" file into C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint



3.3.7 Launch your TM1 Contributor environment, for example, http://yourTM1_Server/pmpsvc/ and **Login** as User: **admin** and Password: **apple**

3.3.8 Click Administer IBM Cognos TM1 Contributor



3.3.9 Click Add... under the Server Names: section

3.3.10 Enter your TM1 Admin Host and click the **Refresh** icon

3.3.11 For the Server Name: select **workforceplanningv2** and **OK**

Add Server

Admin Host:

Your_TM1_Server_Name

Server Name:

blueprint_name

OK

Cancel

3.3.12 Click OK

3.3.13 Click OK

3.3.14 Click the Import Application icon



IBM Cognos TM1 Contributor

Welcome Admin

About Help Logout

Planning Applications

Entries: - Import Application

<input type="checkbox"/>	Name	Modified	Actions
No entries.			

- 3.3.15 Choose ***yourTM1ServerName:workforceplanningV2*** for the TM1 Server
- 3.3.16 Browse to **C:\Cognos Innovation Center\Blueprints\Workforce Planning Blueprint** and select the **"Workforce Planning V2.zip"**



3.3.17 Uncheck Import application security and Click Import

Application Import Help ×

Specify your import file and import settings.

TM1 Server:
 TM1Server:BlueprintName

Application file:
 E:\TM1Models\Workforce Planning V2.zip Browse...

☐ Import application security
☒ Import application properties


Import Cancel

3.3.18 Click the Activate Application icon

IBM Cognos TM1 Contributor Welcome Admin About Help Logout

Planning Applications

Entries: 1 - 1

Name	Modified	Actions
Blueprint Name	December 21, 2009 1:12:30 PM PST	

Activate Application - Blueprint Name

3.3.19 Click the Workforce Application link to test, if installed correctly it should resemble the following

IBM Cognos TM1 Contributor Welcome Admin About Help Logout

You are a reviewer or contributor for:

Name	State	Ownership	Reviewer	Last Data Commit
Australia Procurement	Not Started	None	None	Never committed
Australia Manufacturing Control	Not Started	None	None	Never committed
Australia QC/QA	Not Started	None	None	Never committed
Australia Production	Not Started	None	None	Never committed
Japan Procurement	Not Started	None	None	Never committed

User Instructions

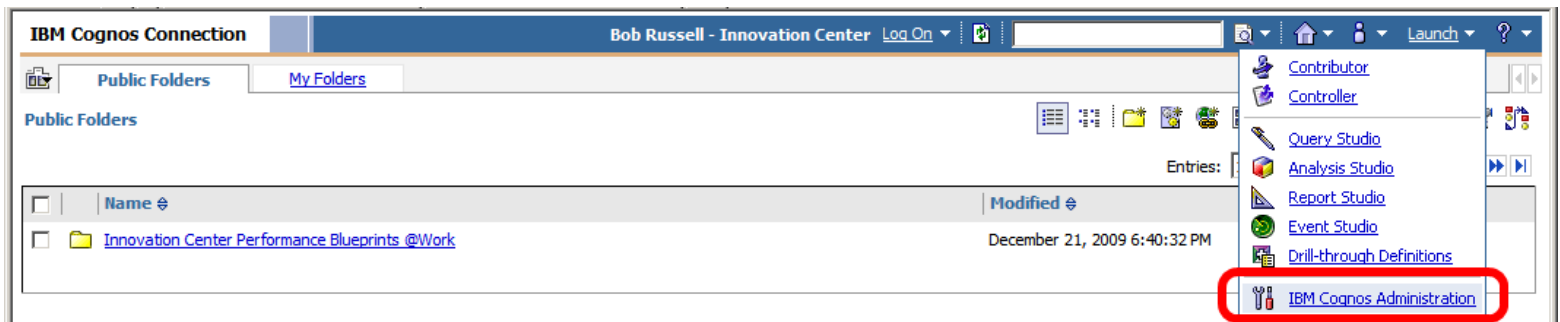


IBM Cognos 8 BI Content

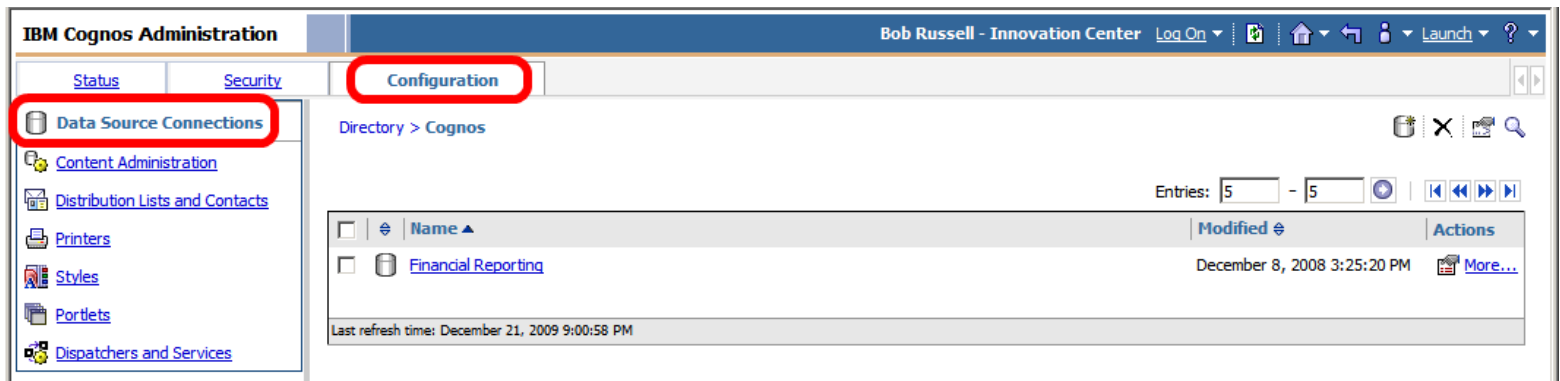
The following steps will navigate through the steps required to configure the objects needed for the IBM Cognos BI content to work properly.

4.1 Create the BI data source

- 4.1.1 Open a browser window and go to your **IBM Cognos Connection** homepage. If Authentication is setup, login with a directory **Administrator** user
- 4.1.2 Click **Launch** and select **IBM Cognos Administration**



- 4.1.3 Click on the **Configuration** tab; make sure 'Data Source Connections' is selected





4.1.4 Click the New Data Source icon

The screenshot shows the IBM Cognos Administration console. The left sidebar contains a tree view with 'Data Source Connections' selected. The main area displays 'Directory > Cognos' with a table of data sources. A red circle highlights the 'New Data Source' icon (a cylinder with a plus sign) in the top right corner. A tooltip 'New Data Source' is visible over this icon. The table lists one entry: 'Financial Reporting' with a modified date of 'December 8, 2008 3:25:20 PM'. The bottom of the table shows 'Last refresh time: December 21, 2009 6:46:28 PM'.

4.1.5 Name the Data Source exactly as: "WorkforcePlanningTM1_BI" then click **Next >**

The screenshot shows the 'Specify a name and description - New Data Source wizard' in the IBM Cognos Administration console. The wizard has fields for 'Name', 'Description', 'Screen tip', and 'Location'. The 'Name' field contains 'Blueprint Name Data Source'. The 'Location' field shows 'Directory > Cognos'. At the bottom, there are four buttons: 'Cancel', '< Back', 'Next >', and 'Finish'. The 'Next >' button is highlighted with a red circle.



4.1.6 Select the 'TM1' option; then click **Next >**

A screenshot of the IBM Cognos Administration web interface. The top navigation bar shows 'IBM Cognos Administration' on the left and 'Bob Russell - Innovation Center' with a 'Log On' dropdown on the right. Below the navigation bar are tabs for 'Status', 'Security', and 'Configuration'. The left sidebar contains a tree view with 'Data Source Connections' selected, and sub-items like 'Content Administration', 'Distribution Lists and Contacts', 'Printers', 'Styles', 'Portlets', and 'Dispatchers and Services'. The main content area is titled 'Specify the connection - New Data Source wizard'. It contains a text box for 'Type' with 'TM1' selected, and an 'Isolation level' section with two radio buttons: 'Use the default object gateway' (selected) and 'Specify a value:'. Below the second radio button is a dropdown menu showing 'Cursor stability'. At the bottom of the wizard are four buttons: 'Cancel', '< Back', 'Next >' (which is highlighted with a red rectangle), and 'Finish'.



4.1.7 Fill in the parameters for the TM1 connection then click Test the connection...

IBM Cognos Administration | Bob Russell - Innovation Center | Log On | Home | Launch | ?

Configuration

Data Source Connections

- Content Administration
- Distribution Lists and Contacts
- Printers
- Styles
- Portlets
- Dispatchers and Services

Specify the TM1 connection string - New Data Source wizard

Edit the parameters to build a TM1 connection string.

Administration Host:
your TM1 Admin Host Server

Server Name:
Blueprint Name (EXACTLY as it appears in TM1 Architect)

Signon
Select the type of authentication to use, whether a password is required and whether to create a signon.

☐ No authentication

☐ An external namespace:
LDAP (Active)

☒ Signons

☒ Password

☒ Create a signon that the Everyone group can use:

User ID:
admin

Password:
•••••

Confirm password:
•••••

Testing
Test the connection...

Cancel < Back Next > Finish

4.1.8 Click **Test** to verify the connection is setup correctly

IBM Cognos Administration | Bob Russell - Innovation Center | Log On | Home | Launch | ?

Configuration

Data Source Connections

- Content Administration
- Distribution Lists and Contacts
- Printers
- Styles
- Portlets
- Dispatchers and Services

Test the connection - New Data Source wizard

Test the parameters that make up the database connection.

Connection string:
^User ID: ^?Password:;LOCAL;TM;TM1AdminHost=cognosprod;TM1ServerName=workforceplanningv2;UID=%s;PWD=%s

Test

Dispatcher:
http://cognosprod:9300/p2pd (Configuration)

Test the connection using:

User ID:
admin

Password:
••••••••

Close



4.1.9 The following screen should indicate **Succeeded** below the Status then click **Close**

IBM Cognos Administration | Bob Russell - Innovation Center | Log On | Home | Launch

Status | Security | Configuration

Data Source Connections

Content Administration

Distribution Lists and Contacts

Printers

Styles

Portlets

Dispatchers and Services

View the results - Test the connection

Name	Status	Message
http://cognosprod:9300/p2pd	Succeeded	

Close

4.1.10 Click **Close** again

IBM Cognos Administration | Bob Russell - Innovation Center | Log On | Home | Launch

Status | Security | Configuration

Data Source Connections

Content Administration

Distribution Lists and Contacts

Printers

Styles

Portlets

Dispatchers and Services

Test the connection - New Data Source wizard

Test the parameters that make up the database connection.

Connection string:
^User ID: ^?Password: ;LOCAL;TM;TM1AdminHost=cognosprod;TM1ServerName=workforceplanningv2;UID=%s;PWD=%s

Test

Dispatcher:
http://cognosprod:9300/p2pd (Configuration)

Test the connection using:

User ID:
admin

Password:
.....

Close

4.1.11 Click **Finish** to add the new data source

IBM Cognos Administration | Bob Russell - Innovation Center | Log On | Home | Launch

Status | Security | Configuration

Data Source Connections

Content Administration

Distribution Lists and Contacts

Printers

Styles

Portlets

Dispatchers and Services

Specify the TM1 connection string - New Data Source wizard

Edit the parameters to build a TM1 connection string.

Administration Host:
your TM1 Admin Host Server

Server Name:
Blueprint Name (EXACTLY as it appears in TM1 Architect)

Signon

Select the type of authentication to use, whether a password is required and whether to create a signon.

☐ No authentication

☐ An external namespace:
LDAP (Active)

☒ Signons

☒ Password

☒ Create a signon that the Everyone group can use:

User ID:
admin

Password:
.....

Confirm password:
.....

Testing

Test the connection...

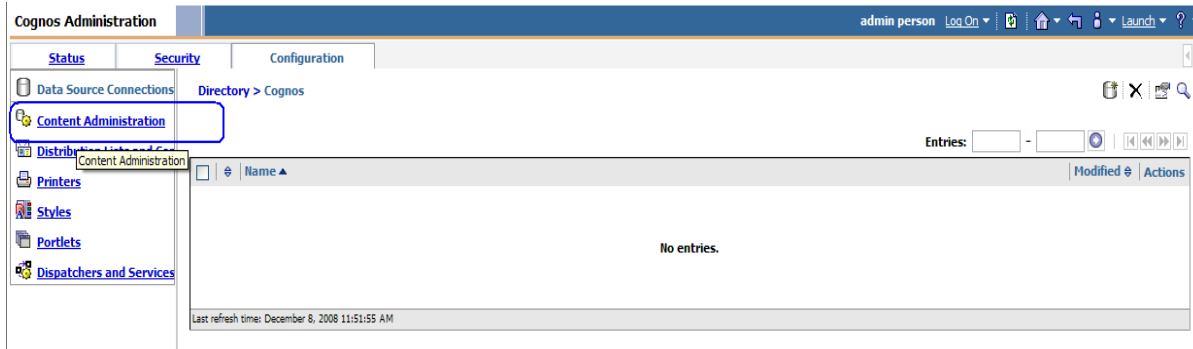
Cancel < Back Next > Finish



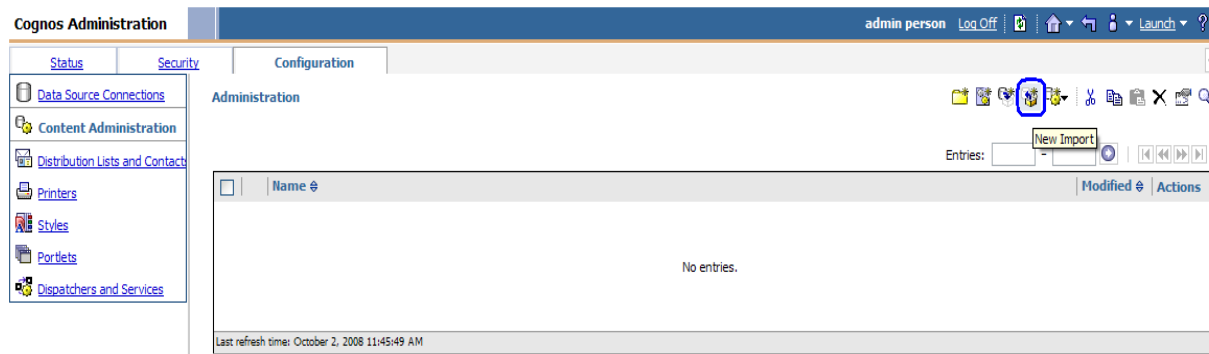
4.2 Import BI Deployment Package

4.2.1 Run the Import Wizard to bring in the BI Content into the IBM Cognos Connection portal

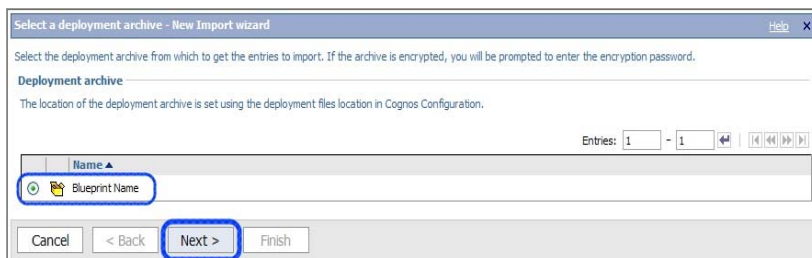
4.2.2 From the screen in the previous step, select **Content Administration**



4.2.3 Click the **New Import** icon 



4.2.4 Select the import package named '**Workforce Planning BI Deployment**' then click **Next >**





4.2.5 Verify the Name is 'Workforce Planning BI Deployment' then click **Next >**

Specify a name and description - New Import wizard

Specify a name and location for the deployment specification. You can also specify a description and screen tip.

Name:
Blueprint Name

Description:
[Empty text area]

Screen tip:
[Empty text area]

Location:
Administration
Select another location...

Cancel < Back **Next >** Finish

4.2.6 Specify the options and **DO NOT** check 'Disable after import' then click **Next >**

Select the public folders content - New Import wizard

Select one or more packages or folders and select the options to include in the import.

Public folders content

Change the target name of packages and folders if you do not want to overwrite them in the target with packages and folders from the deployment archive. Disable the packages and folders if you do not want users to access them in the target after the import.

<input checked="" type="checkbox"/>	Name	Target name	<input type="checkbox"/> Disable after import	In target content	Modified
<input checked="" type="checkbox"/>	Blueprint Name	Blueprint Name	<input type="checkbox"/>		

Options

☒ include report output versions

Conflict resolution:

☐ Keep existing entries

☒ Replace existing entries

☒ include run history

Conflict resolution:

☐ Keep existing entries

☒ Replace existing entries

☒ include schedules

Conflict resolution:

☐ Keep existing entries

☒ Replace existing entries

Cancel < Back **Next >** Finish

4.2.7 Specify the general options, select 'The user performing the import' and 'New entries only' then click **Next >**

Specify the general options - New Import wizard

Specify the options applicable to all the entries in the import.

Access permissions

☒ Include access permissions

☐ Apply to new entries only

☒ Apply to new and existing entries

External namespaces

☐ Include references to external namespaces

☒ Do not include references to external namespaces

Entry ownership

Set the owner to:

☐ The owner from the source

☒ The user performing the import

Apply to:

☒ New entries only

☐ New and existing entries

Cancel < Back **Next >** Finish



4.2.8 Review the summary options selected then click **Next >**

Review the summary - New Import wizard

The Import wizard is ready to import into the target environment.
If you want to change any settings, click Back.
If you are satisfied with the settings and want to select whether to run, schedule, or save only, click Next.

Deployment specification

Name: Blueprint Name Description:

Deployment archive

Name: Blueprint Name

Public folders content

Name	Target name	Disable after import	In target content	Modified
Blueprint Name	Blueprint Name			

Options:

Include report output versions
Replace existing entries
Include run history
Replace existing entries
Include schedules
Replace existing entries

Directory content

Cancel < Back **Next >** Finish

4.2.9 Choose 'Save and run once' then click **Finish**

Select an action - New Import wizard

Select whether you want to run, schedule, or save only, when the wizard does.

Action:

☒ Save and run once
☐ Save and schedule
☐ Save only

Cancel < Back Next > **Finish**

4.2.10 Specify the time to run the import select 'Now' and 'Keep the existing report specifications versions' then click **Run**

Run with options - Blueprint Name

Select when you want to run this import.

Time:

☒ Now
☐ Later:
 May 22, 2008
 2 : 48 PM

Content:

Name:

- ☒ Content store
- ☒ Directory
- ☒ Cognos namespace
- ☒ Public Folders
- ☒ Blueprint Name

Report specification upgrade

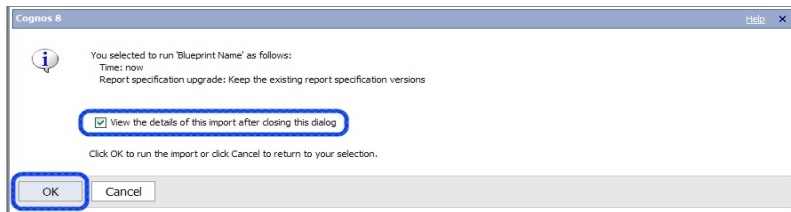
You may want to keep existing report specification versions for compatibility with existing applications.

☐ Upgrade all report specifications to the latest version
☒ Keep the existing report specification versions

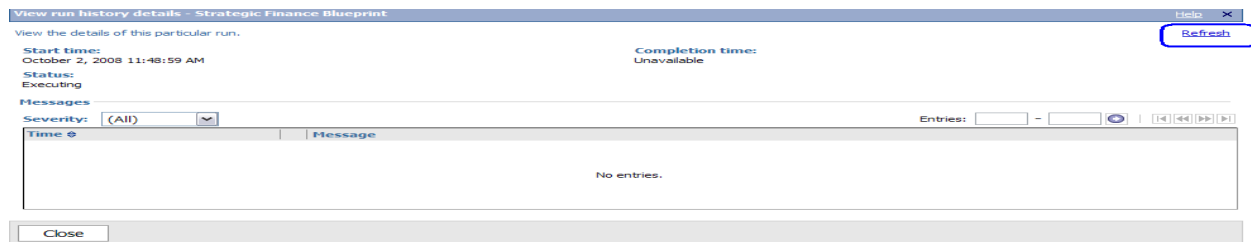
Run Cancel



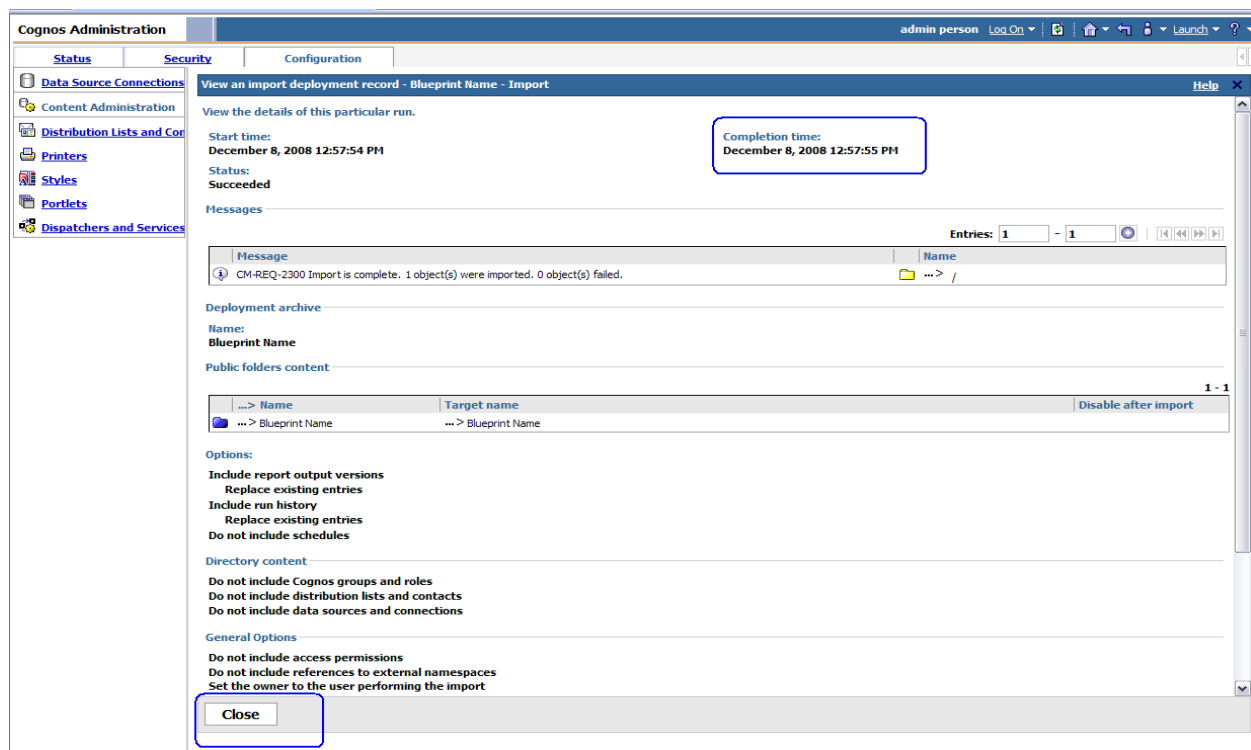
4.2.11 Check 'View the details of this import after closing this dialog' then click OK



4.2.12 Initial view of the import deployment record will be blank press the 'Refresh' hyperlink.



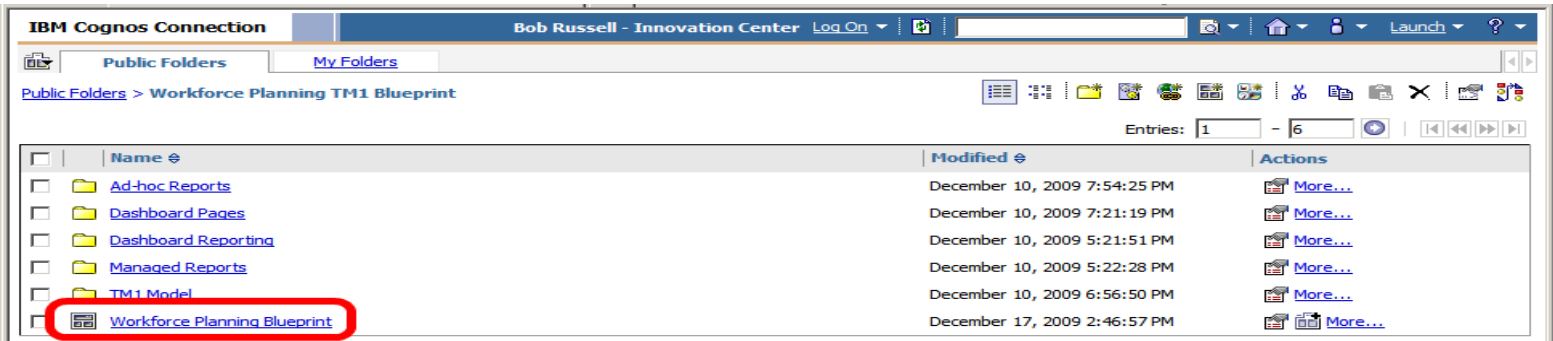
4.2.13 If the deployment import has not finished click on 'Refresh' again until it shows a completion time then click Close.





4.3 Testing IBM Cognos Dashboard Content

After the Import is performed a new folder will appear named **'Workforce Planning TM1 Blueprint'** in the IBM Cognos Connection portal. The content of this folder will display as:



To test the content is coming up correctly, click the 'Workforce Planning Blueprint' link as highlighted above:



Testing can then be performed on each of the dashboard pages to obtain the dashboards displaying your organization's data.