

# Creating Custom SCCM 2012 Reports



Microsoft®  
System Center  
Configuration Manager 2012

## Abstract:

This document is a quick explanation of how to create custom reports in SCCM 2012 (Microsoft System Center Configuration Manger 2012).

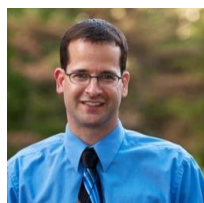
## Document Revision and History:

version	date	description
1.0	7/5/2014	initial publication

## Freeware License and Disclaimer:

This document is freeware, done in the spirit of open-source. You may distribute unchanged copies of this document freely to anyone at any time. Care has been taken to cite contributing sources and individuals, please do the same. If you find errors in anything contained herein, please comment on them and/or contact me so that we may all help the community.

## About the Author:



### Daniel L. Benway

Systems & Network Administrator / Engineer  
BS/CS, MCSE (NT4, 2000), MCTS (SCCM 2012), CCNA (2.0), Network+, CLP (AD R4)



<http://www.Linkedin.com/in/DaniellBenway>



<http://www.DaniellBenway.net>



@Daniel\_L\_Benway

## Legend:

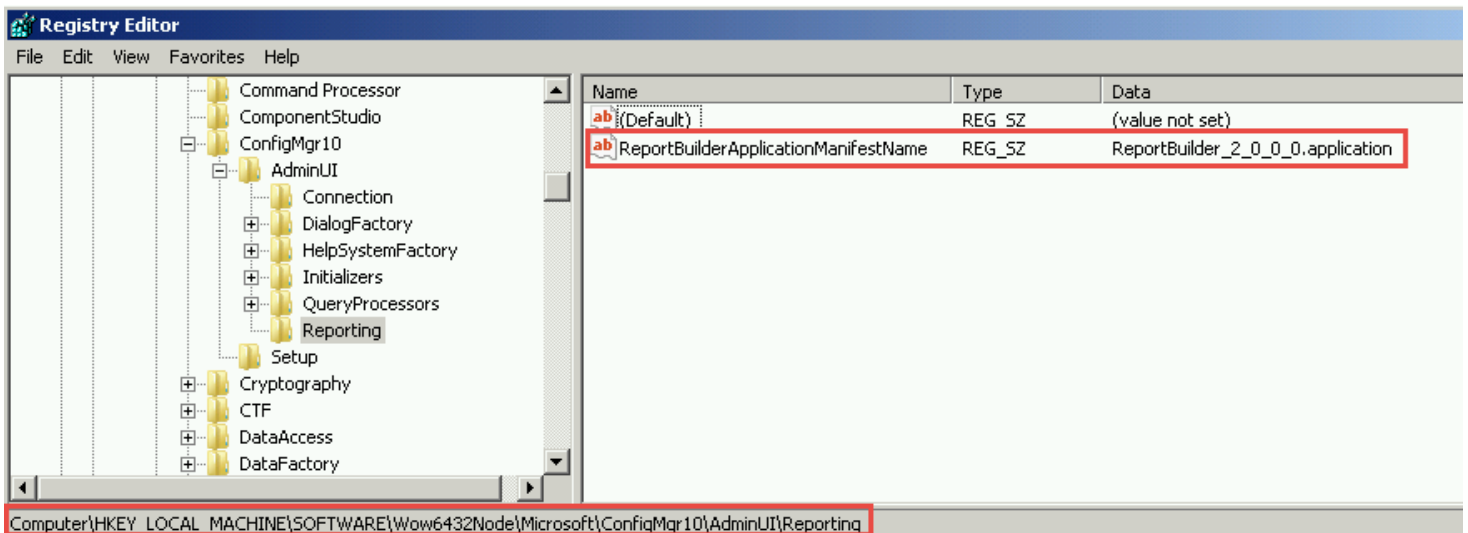
LC = left click  
LCC = left click click  
LD = left drag  
RC, RCC, RD similar

## Configure Report Builder 3.0:

If you are using [SQL 2008 R2](#) with [SCCM 2012 RC](#), you'll probably receive this error:  
"Report Builder 2.0 is not installed as a click-once application on report server"

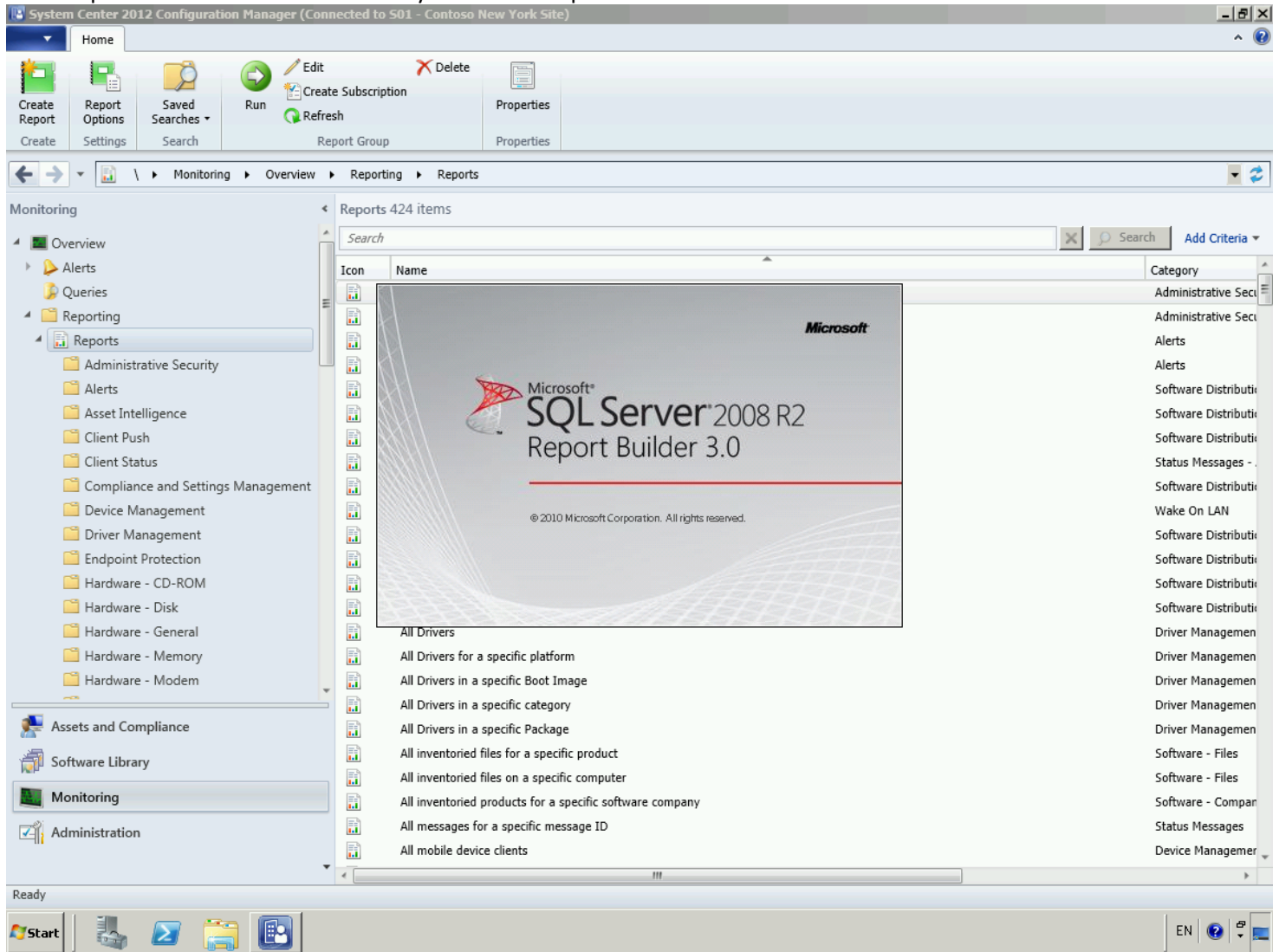
ConfigMgr 2012 is designed to work out of the box with Report Builder 2.0. You'll need to set a registry key to name the Report Builder 3.0 application manifest. The key in question is:

"HKLM\Software\Wow6432Node\Microsoft\ConfigMgr10\AdminUI\Reporting\ReportBuilderApplicationManifestName".



Change its value from "ReportBuilder\_2\_0\_0\_0.application" to "ReportBuilder\_3\_0\_0\_0.application" on any machine from which you want to launch Report Builder 3.0.

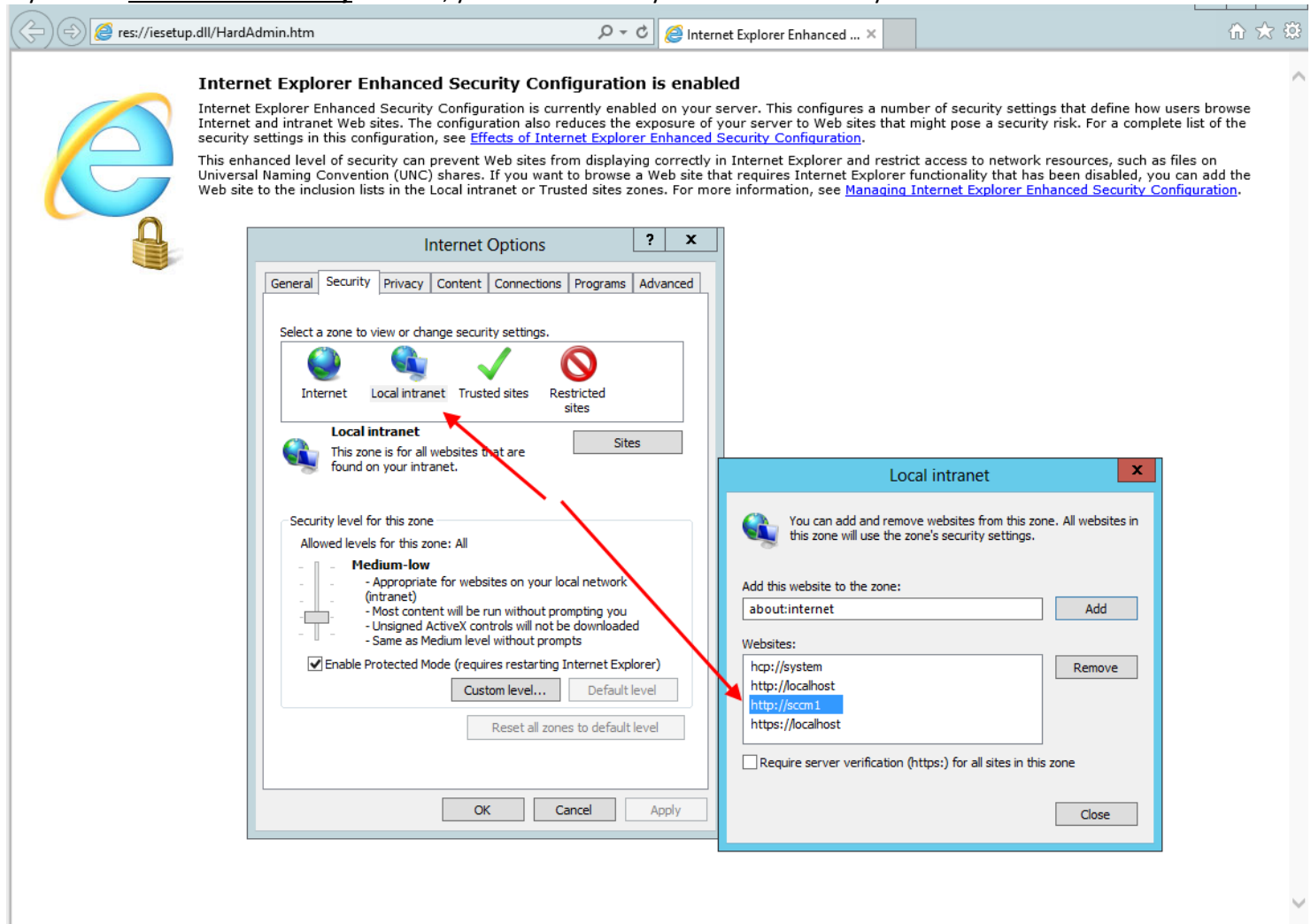
Then Report Builder 3.0 will start when you create a report:



From <<http://www.windows-noob.com/forums/index.php?/topic/5743-report-builder-20-is-not-installed-as-a-click-once-application-on-report-server/>>

If you're using SQL 2012 SP1 with SCCM 2012 SP1 you don't need to do anything, you already have Report Builder 3.0 configured.

If you have **IE Enhanced Security** enabled, you'll need to add your SCCM server to your IE's local intranet:



**Internet Explorer Enhanced Security Configuration is enabled**

Internet Explorer Enhanced Security Configuration is currently enabled on your server. This configures a number of security settings that define how users browse Internet and intranet Web sites. The configuration also reduces the exposure of your server to Web sites that might pose a security risk. For a complete list of the security settings in this configuration, see [Effects of Internet Explorer Enhanced Security Configuration](#).

This enhanced level of security can prevent Web sites from displaying correctly in Internet Explorer and restrict access to network resources, such as files on Universal Naming Convention (UNC) shares. If you want to browse a Web site that requires Internet Explorer functionality that has been disabled, you can add the Web site to the inclusion lists in the Local intranet or Trusted sites zones. For more information, see [Managing Internet Explorer Enhanced Security Configuration](#).

**Internet Options**

General Security Privacy Content Connections Programs Advanced

Select a zone to view or change security settings.

Internet Local intranet Trusted sites Restricted sites

**Local intranet**

This zone is for all websites that are found on your intranet.

Security level for this zone

Allowed levels for this zone: All

**Medium-low**

- Appropriate for websites on your local network (intranet)
- Most content will be run without prompting you
- Unsigned ActiveX controls will not be downloaded
- Same as Medium level without prompts

Enable Protected Mode (requires restarting Internet Explorer)

Custom level... Default level

Reset all zones to default level

OK Cancel Apply

**Local intranet**

You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.

Add this website to the zone:

about:internet Add

Websites:

- hcp://system Remove
- http://localhost
- http://sccm1**
- https://localhost

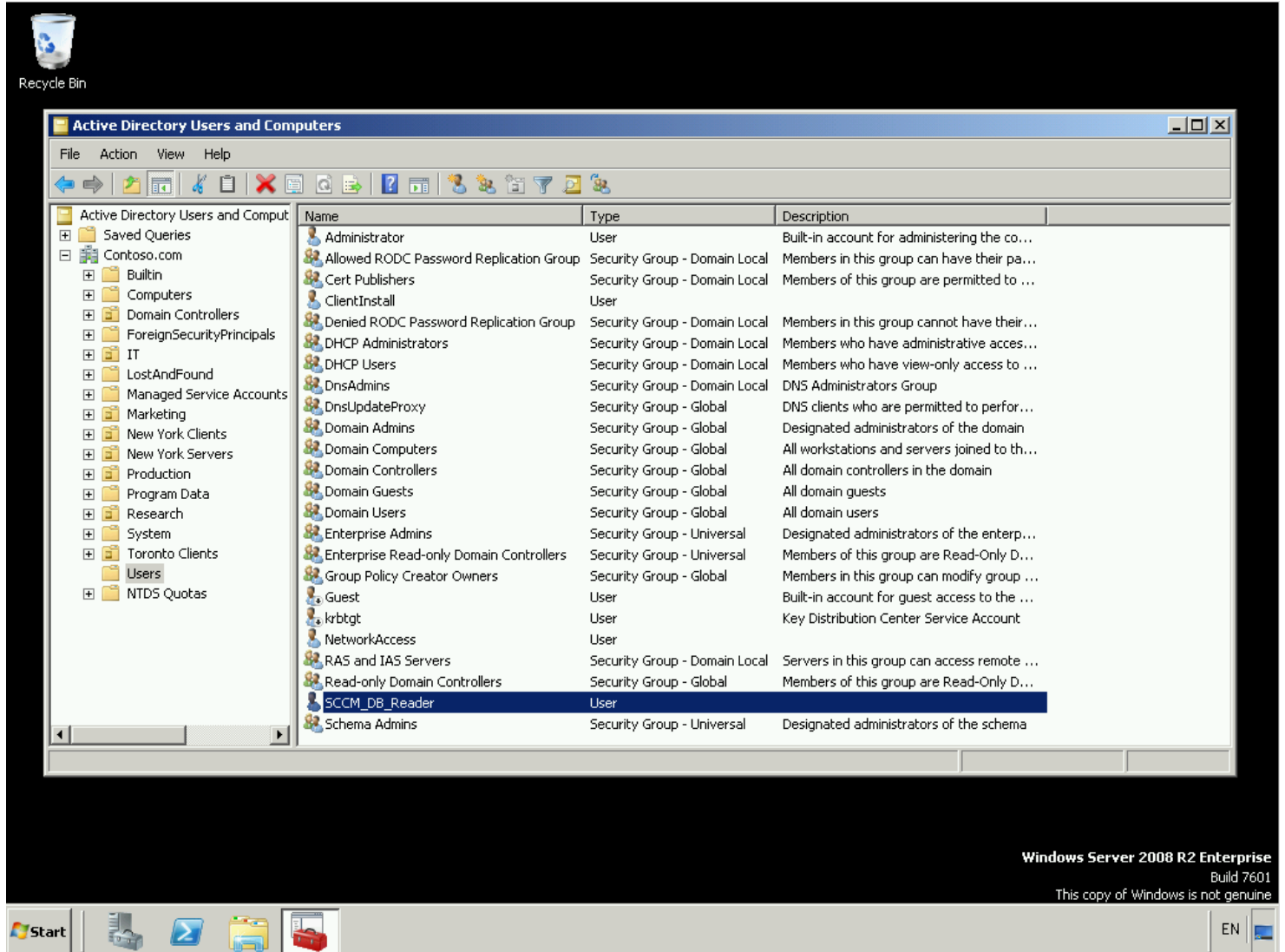
Require server verification (https:) for all sites in this zone

Close

# Create DB Read Account:

First, create a read-only account (let's call it SCCM\_DB\_Reader) that your custom reports will use to access the SCCM database:

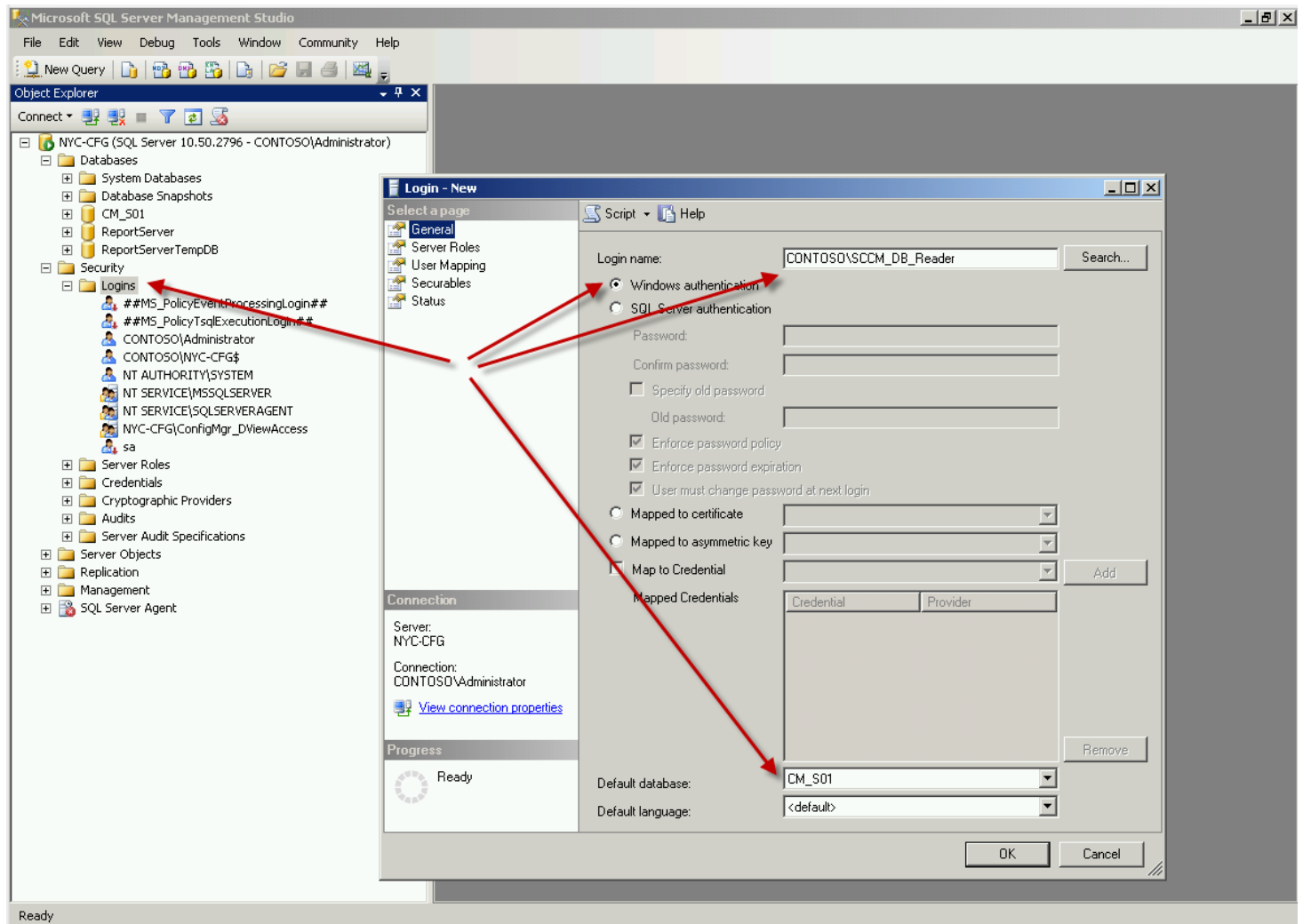
Create the AD user:



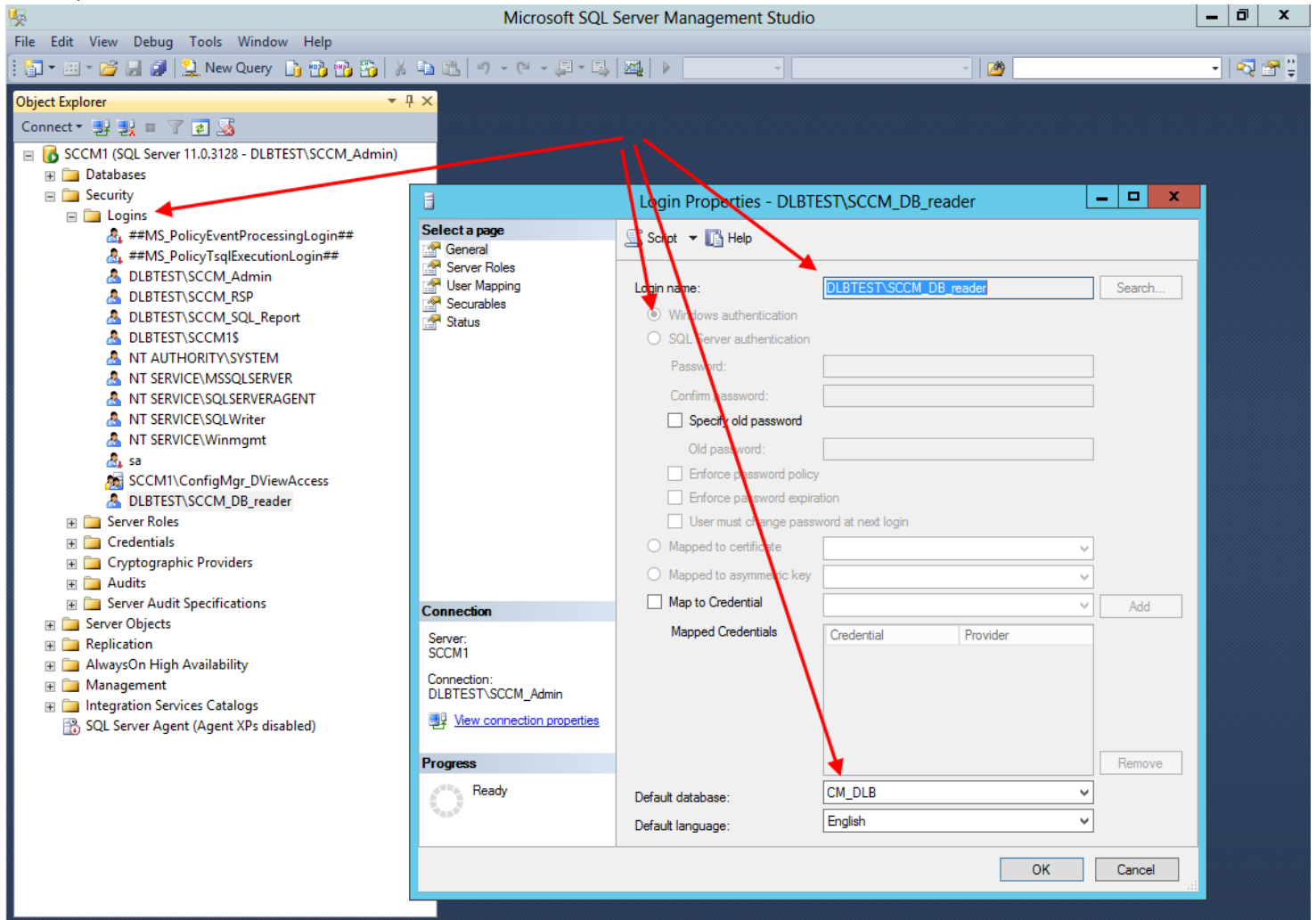
Next create the SQL login for the SCCM\_DB\_Reader account:

<http://www.youtube.com/watch?v=Uh5USR7pymE>

...in SQL 2008:



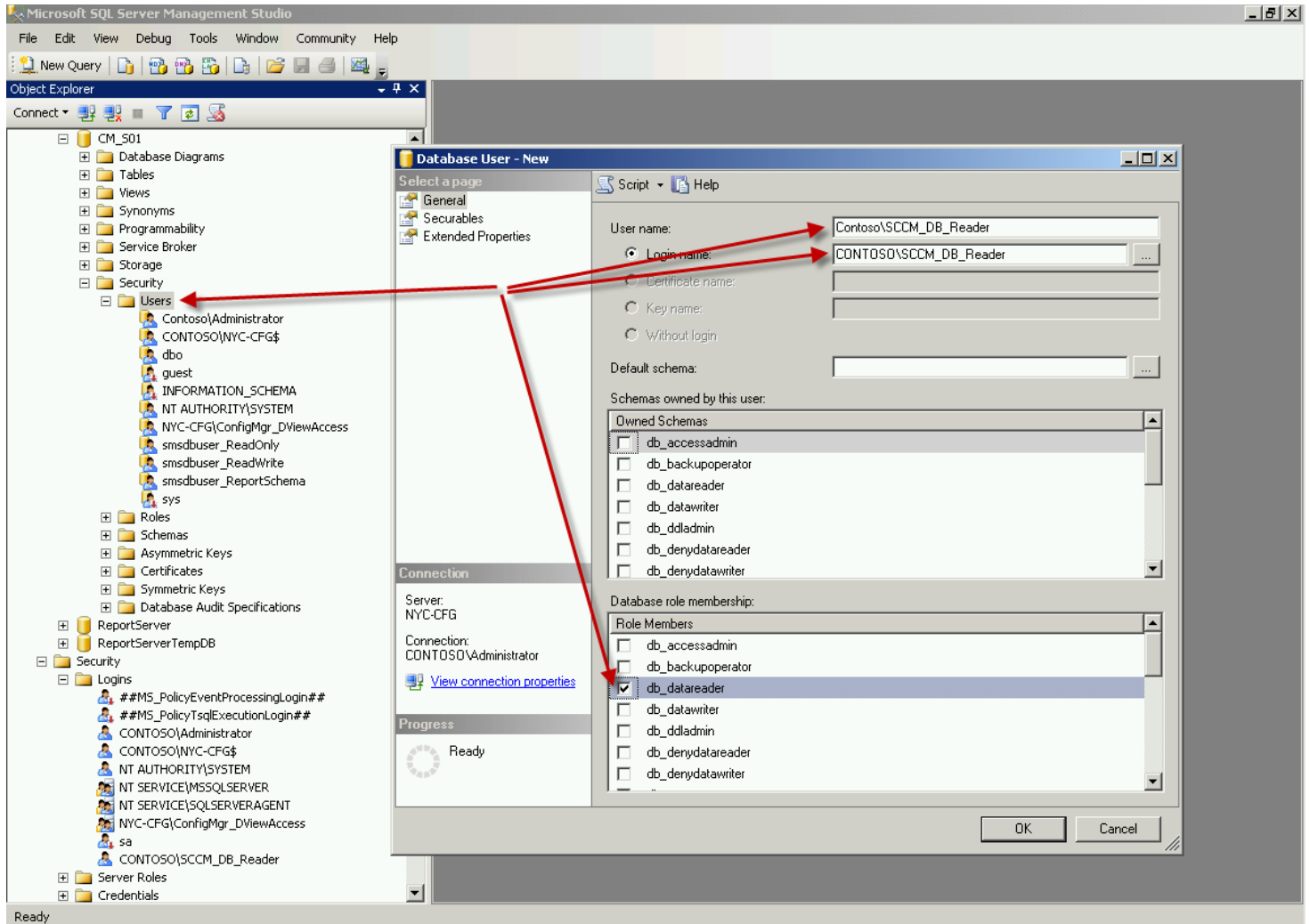
...in SQL 2012:



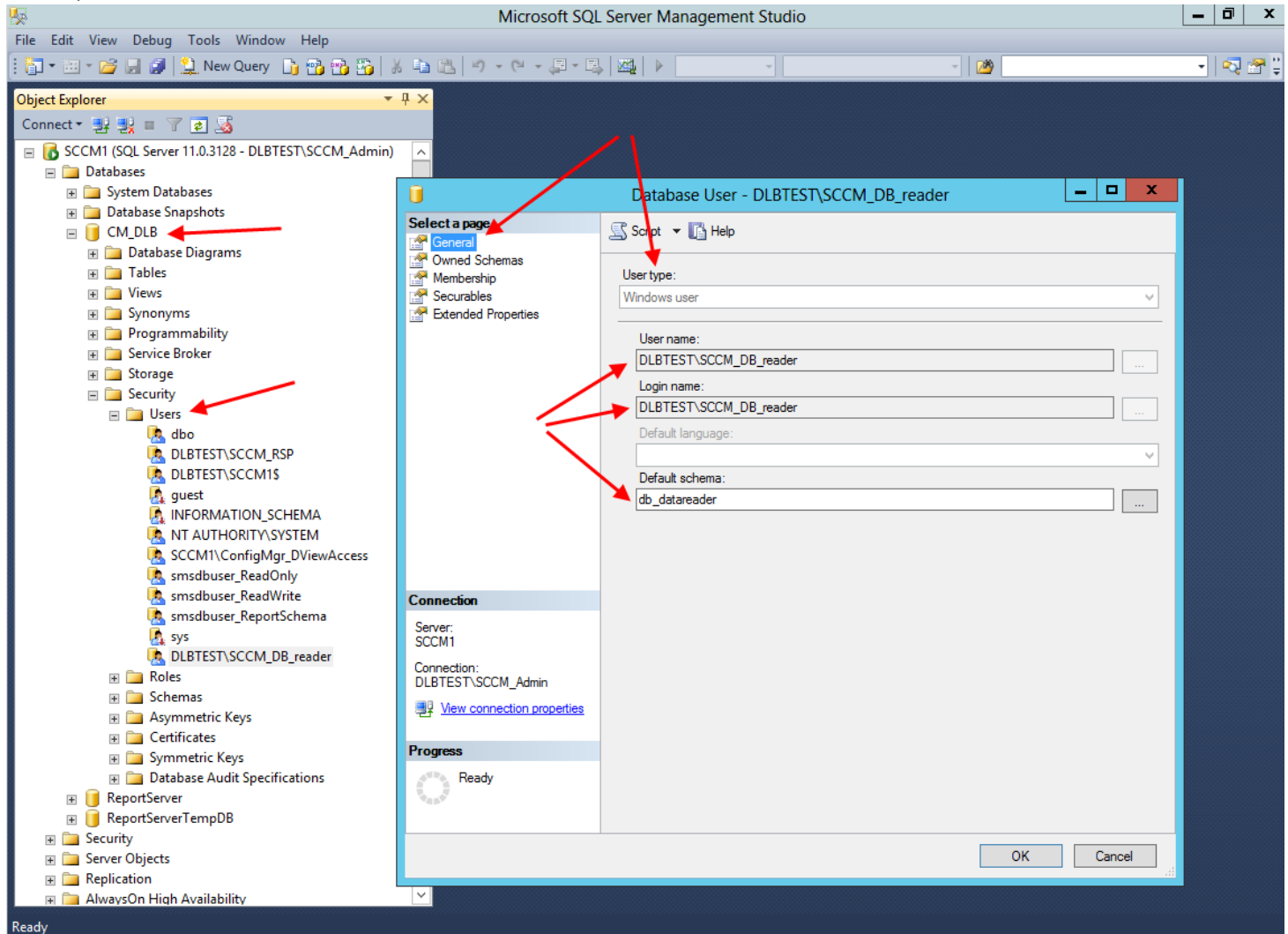


Lastly, create the SQL user for the SCCM\_DB\_Reader account:

...in SQL 2008:

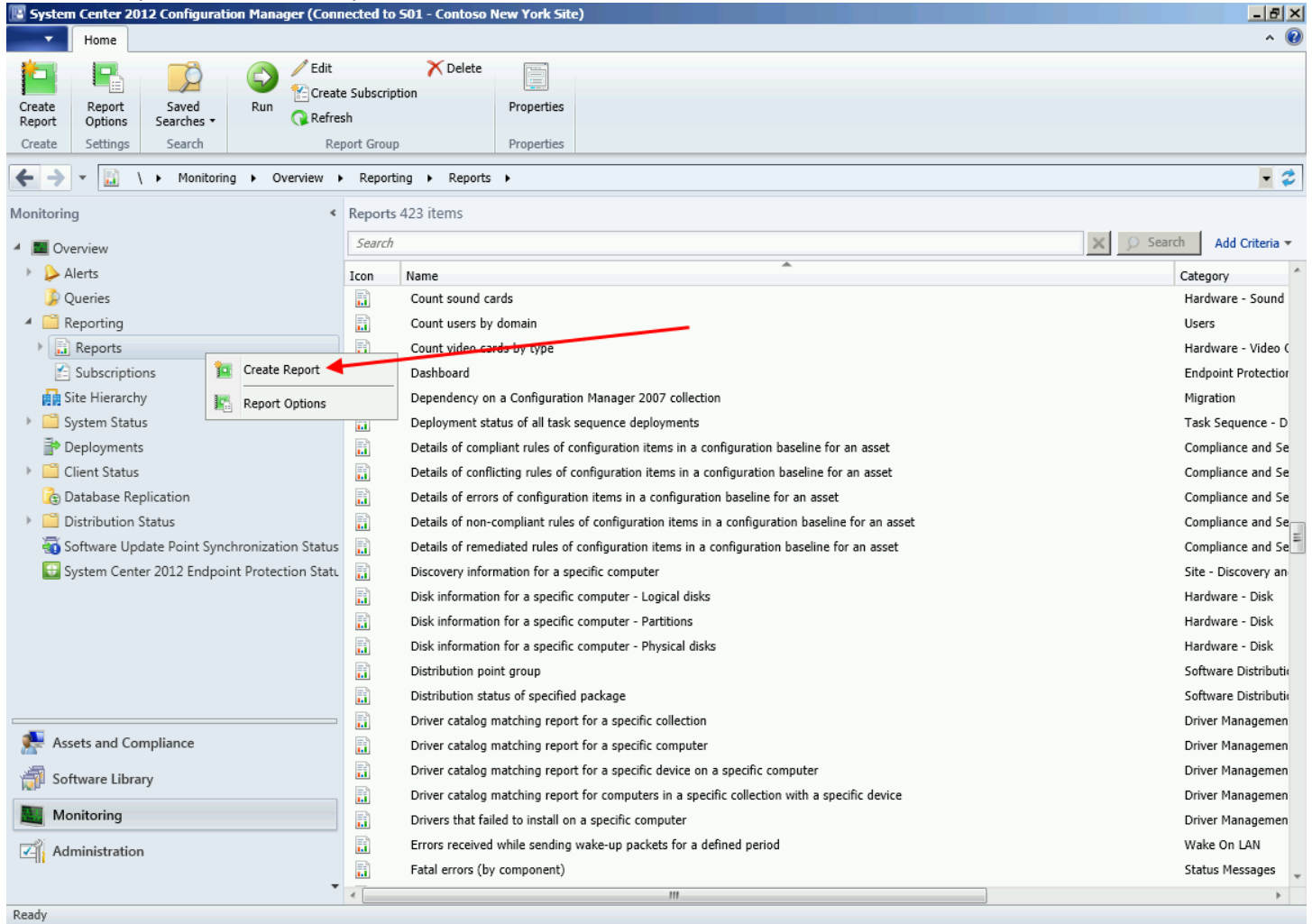


...in SQL 2012:

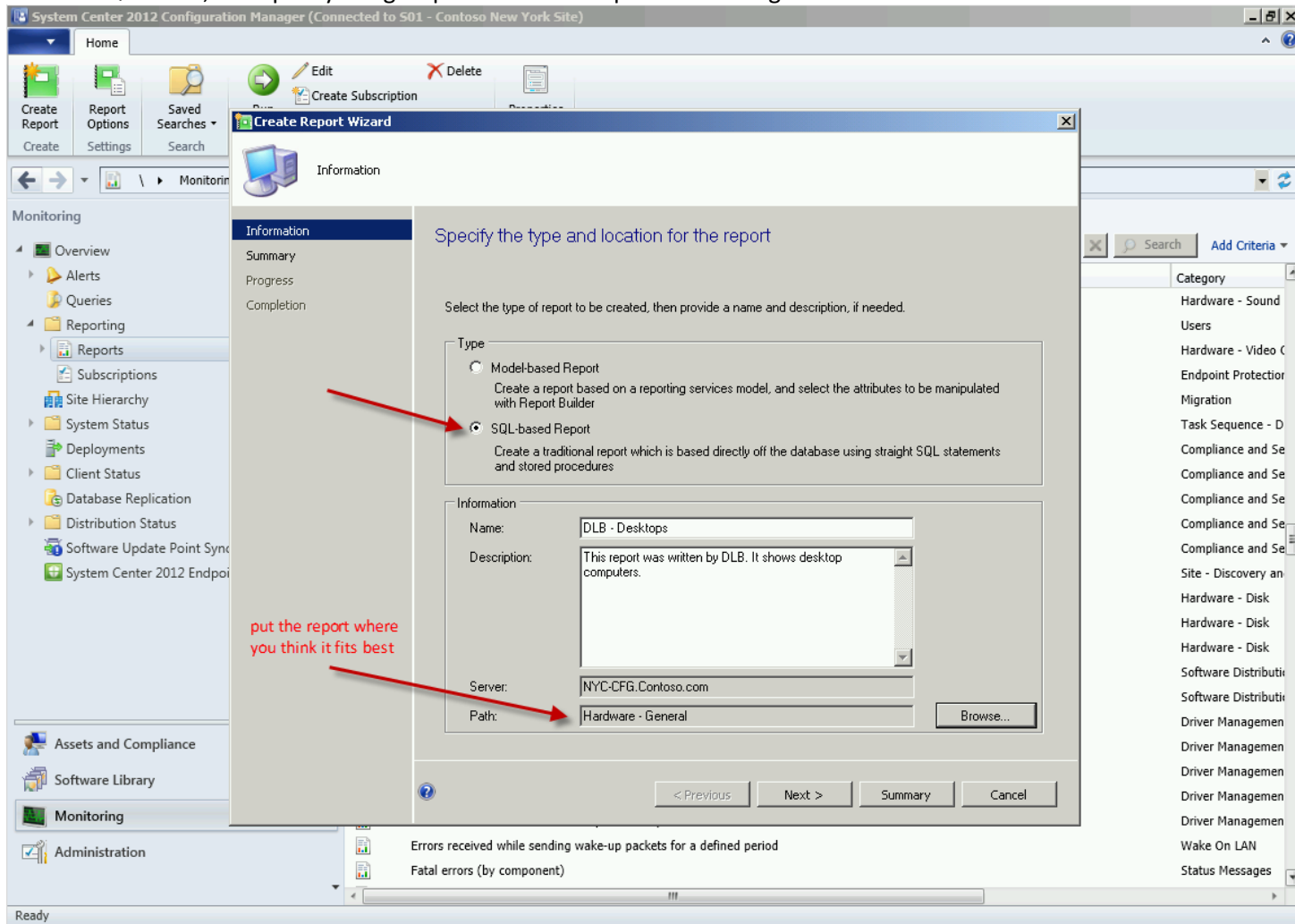


# Create a New Report Manually:

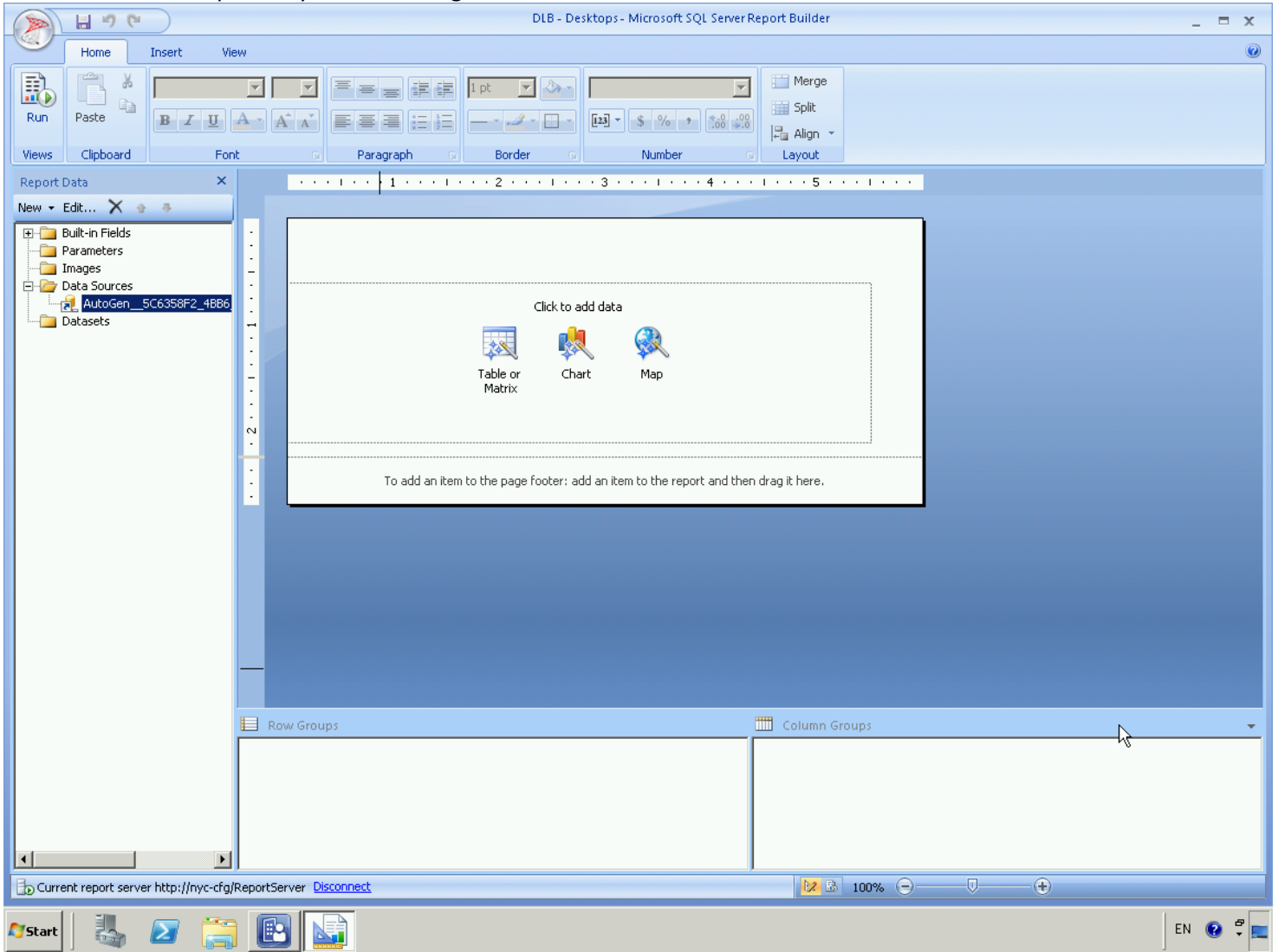
Now create your new custom report:



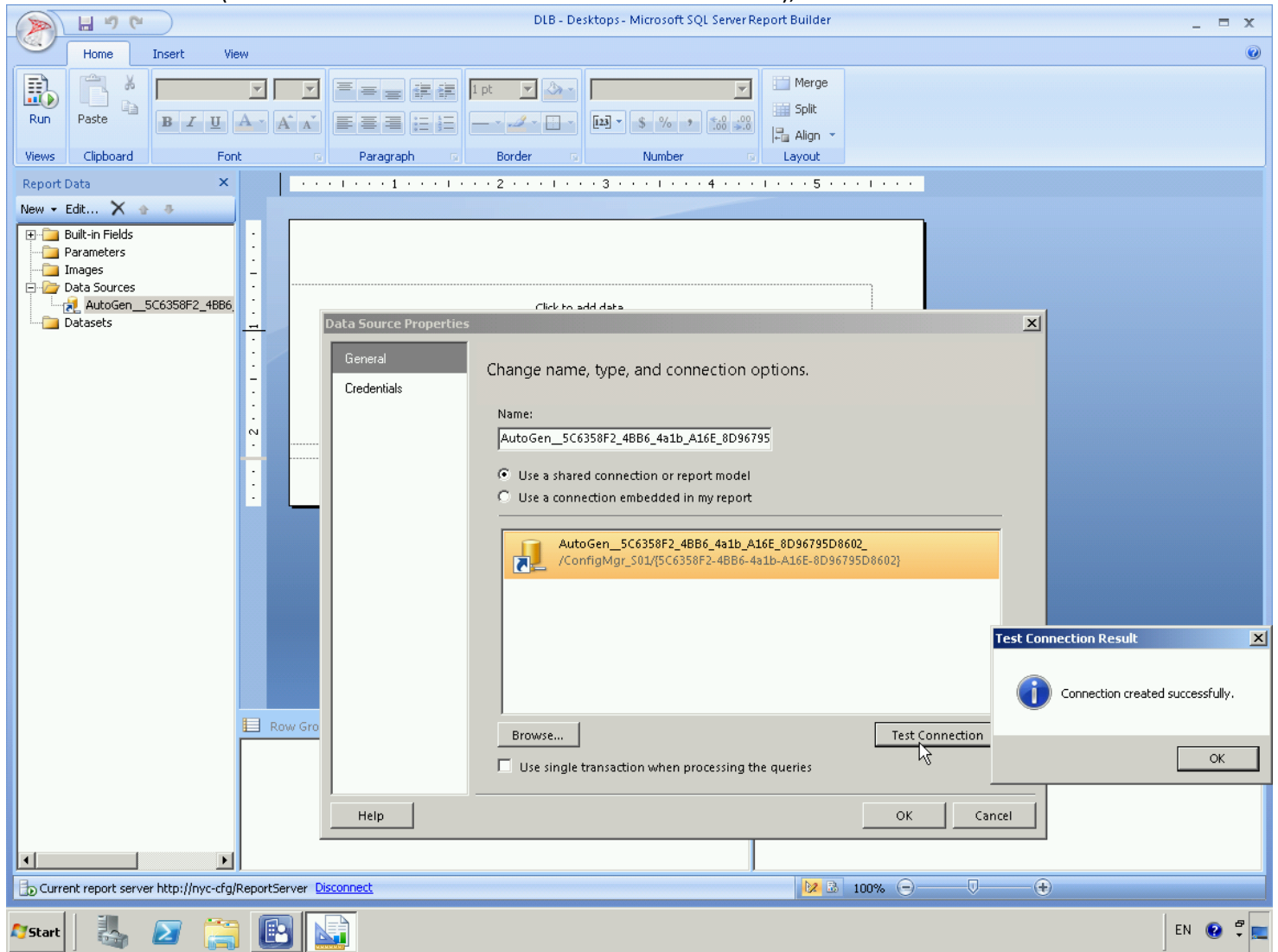
Choose SQL-based, and specify the group to which the report will belong:



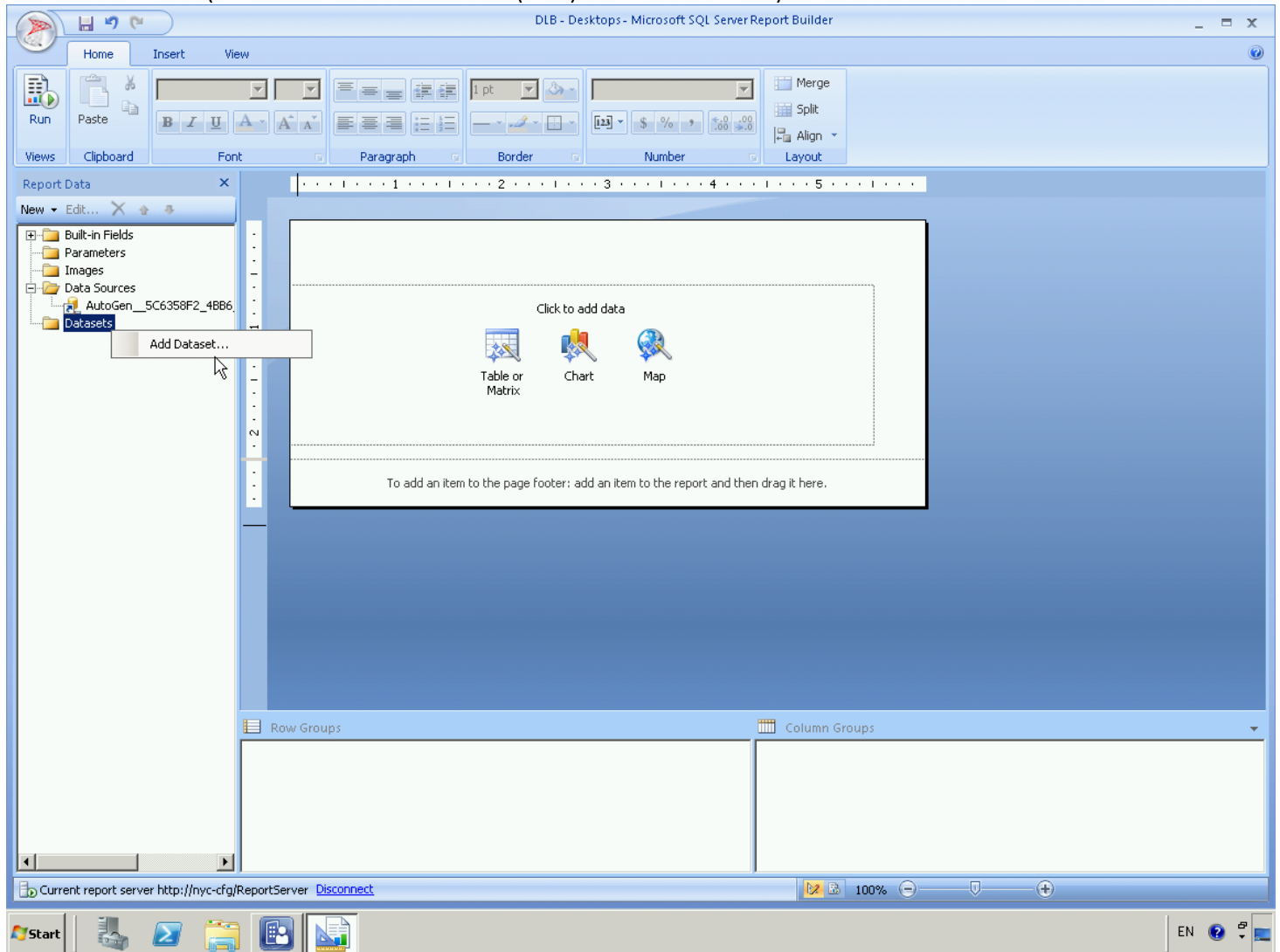
This is what comes up when you click through all of the 'OK's and 'Next's:



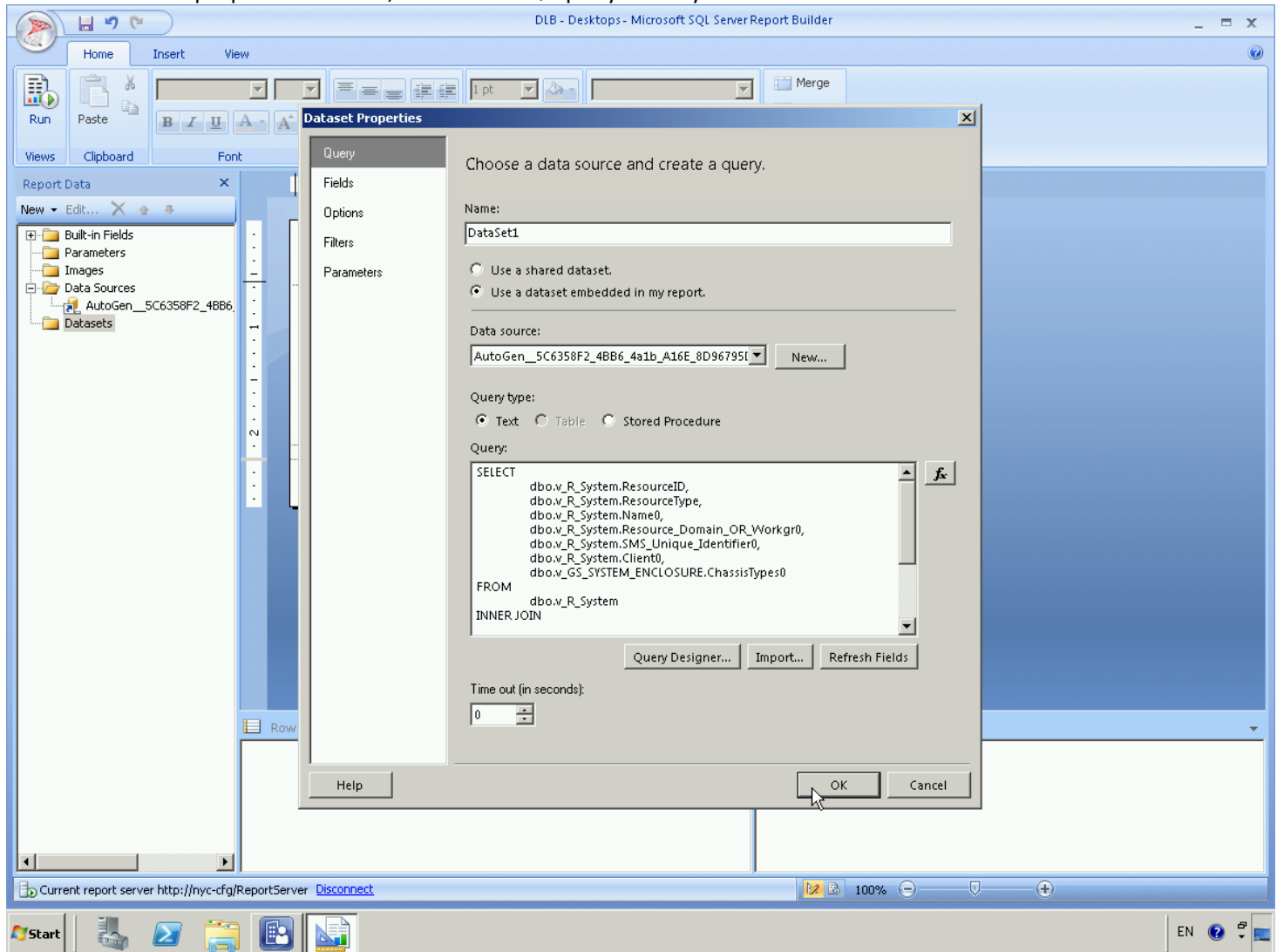
LCC the Data Source (which is the database from which the dataset is taken), and test the connection:



Add a new dataset (which are the actual records (data) from the database):



Make the dataset properties like this, where the SQL query is one you've written:



As an example, use this SQL query which finds desktop computers:

<http://scmgeekdiary.wordpress.com/2012/09/06/sccm-2012-reporting-for-dummies-how-to-use-sql-management-studio-to-build-your-sccm-queries>

```
SELECT
    dbo.v_R_System.ResourceID,
    dbo.v_R_System.ResourceType,
    dbo.v_R_System.Name0,
    dbo.v_R_System.Resource_Domain_OR_Workgr0,
    dbo.v_R_System.SMS_Unique_Identifier0,
    dbo.v_R_System.Client0,
    dbo.v_GS_SYSTEM_ENCLOSURE.ChassisTypes0
FROM
    dbo.v_R_System
INNER JOIN
    dbo.v_GS_SYSTEM_ENCLOSURE
ON
    dbo.v_R_System.ResourceID =
    dbo.v_GS_SYSTEM_ENCLOSURE.ResourceID
WHERE
    dbo.v_GS_SYSTEM_ENCLOSURE.ChassisTypes0 = N'3'
```



Note: sometimes it's hard to write the SQL query because you don't know all of the tables and views you need, so you can build an SCCM query, then convert the WQL query code to SQL code as follows:

<http://brothertu.blogspot.com/2010/06/how-to-convert-wql-to-sql-for-sccm-or.html>

2010-06-25

## how to convert WQL to SQL for a SCCM or sms query

smsprov.log - records WMI provider access to the site database

this is a server log and can be found from the site server:

sms\logs


open smsprov.log

excute your query

you should be able to see the query execution logged in the smsprov.log. Once this has happened, pause the log file so it does not scroll away on you.

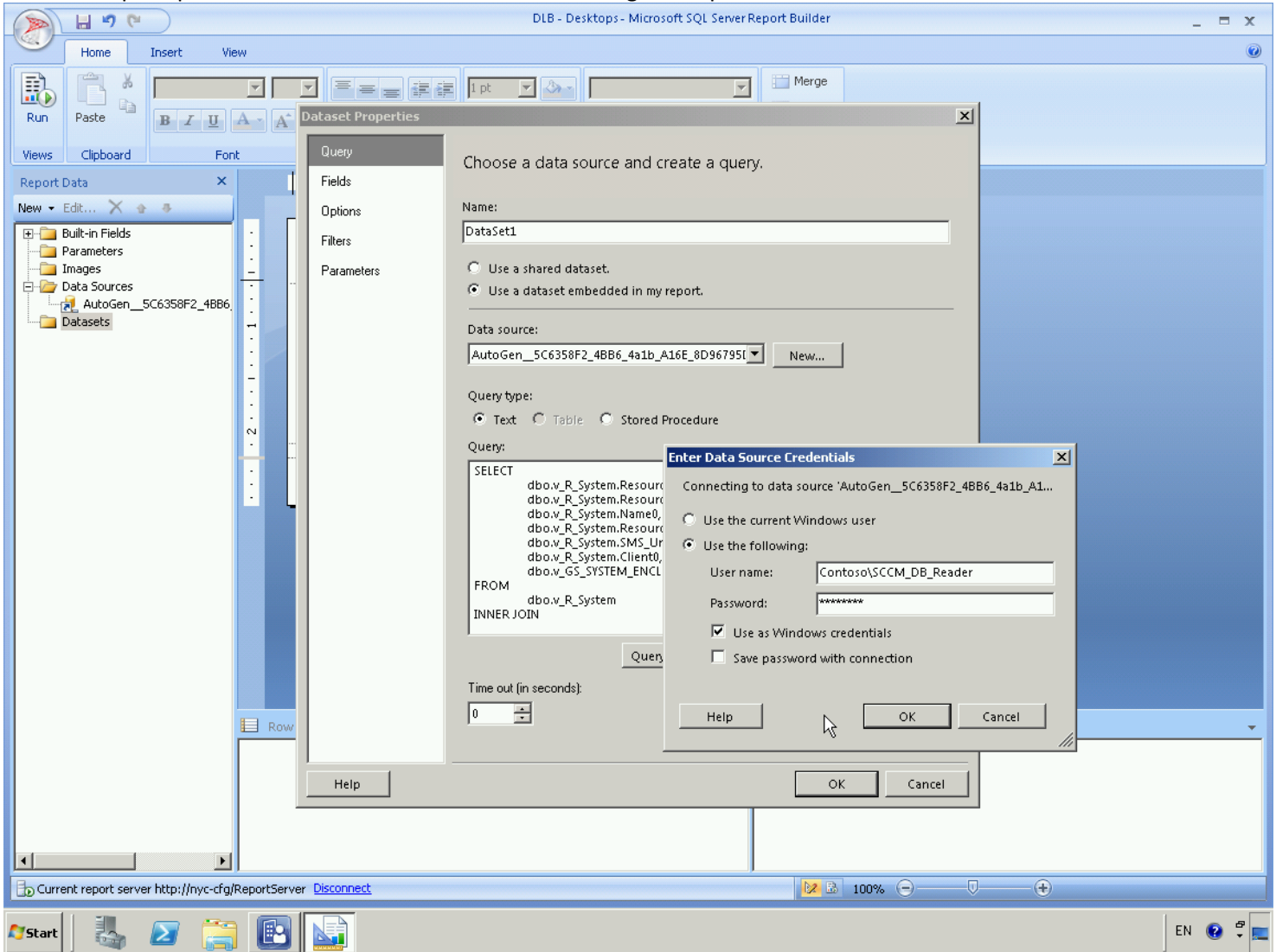
look for the two lines starting with execute wql= and execute sql=,

copy the text out of the bottom pane of the log viewer and paste it into your web report.

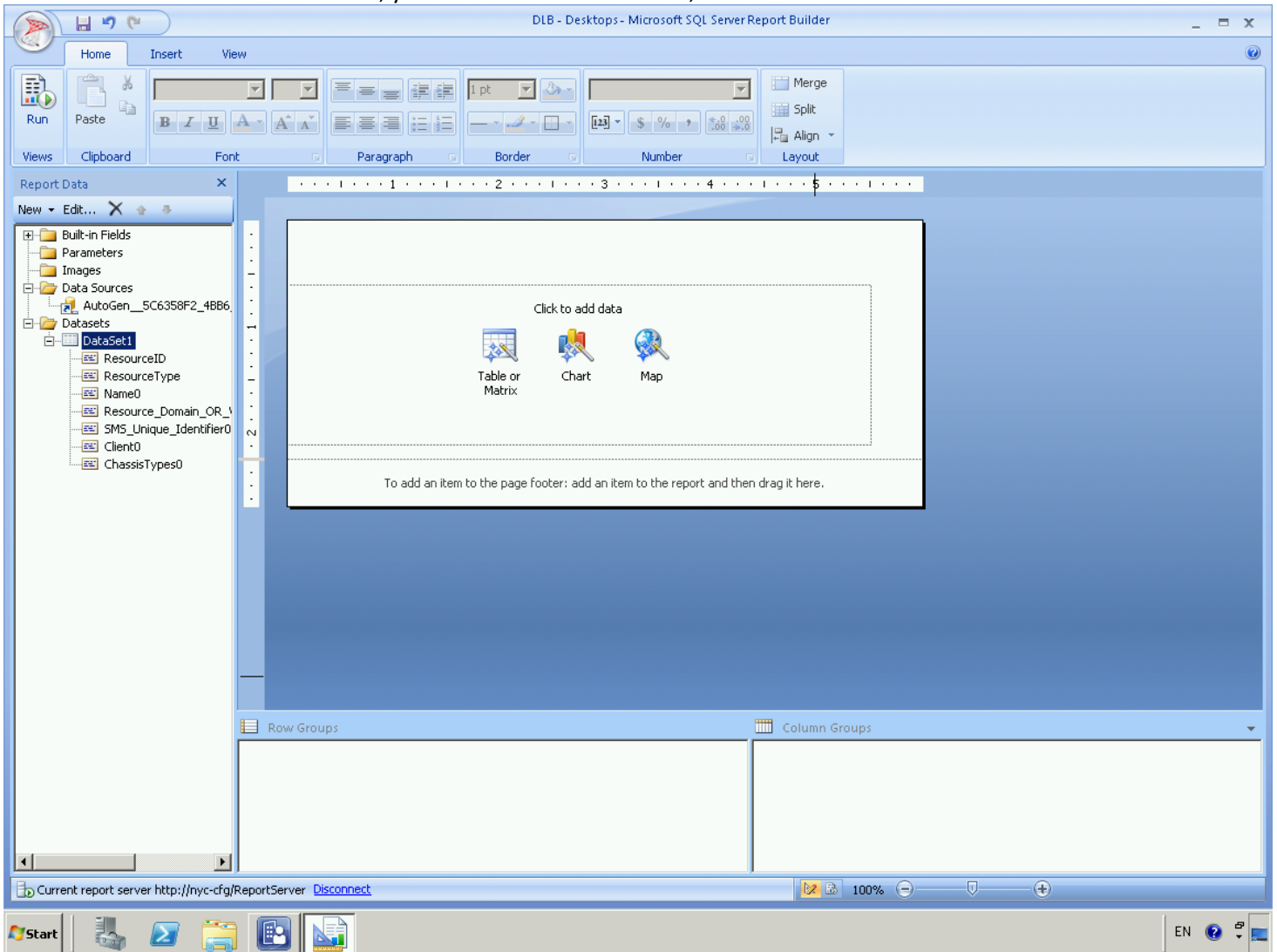
Posted by [Brothertu](#) at 1:38:00 am 

Labels: [SCCM 2007](#) and [SMS](#)

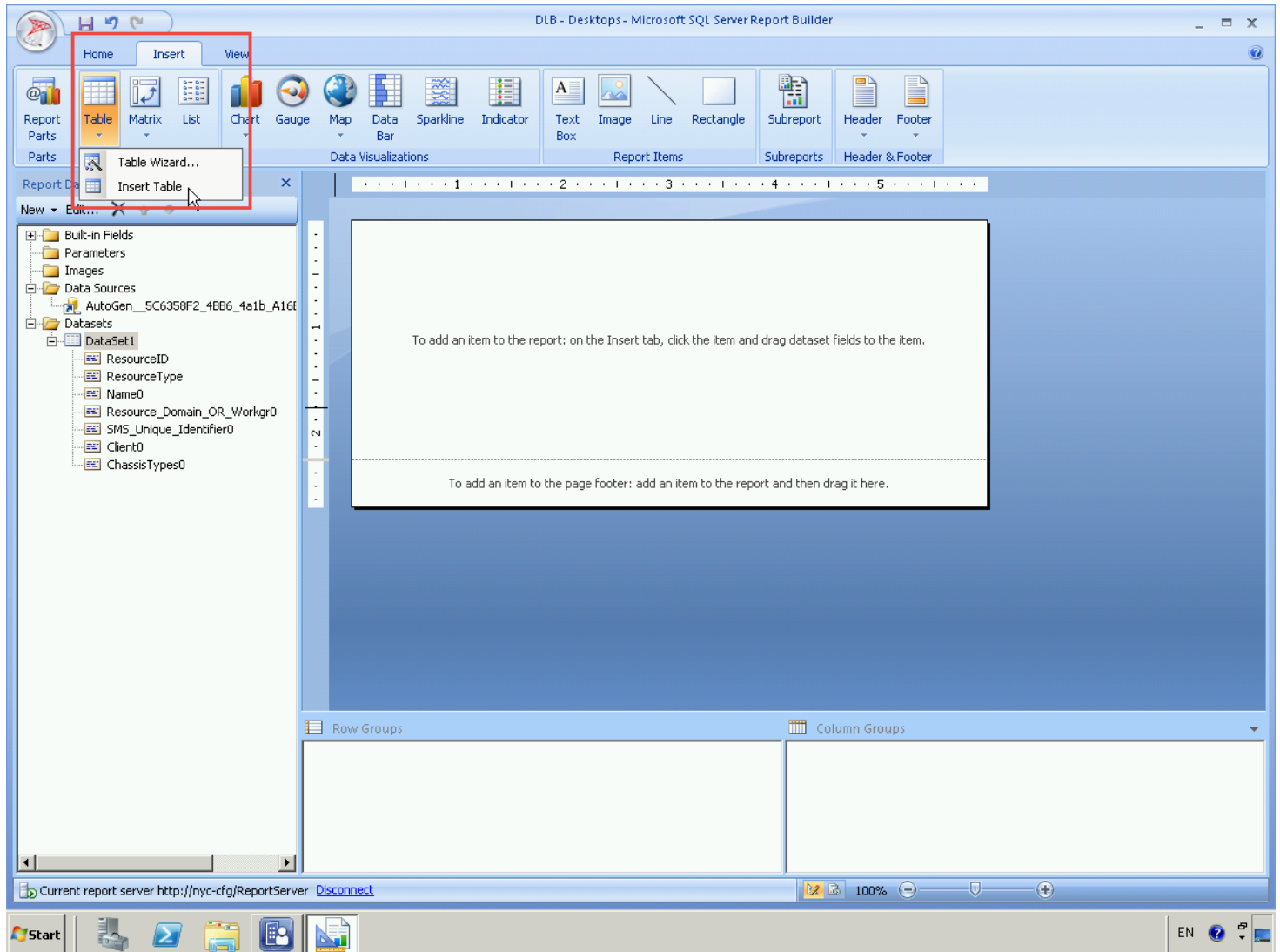
You will be prompted for the credentials to use when running this report:



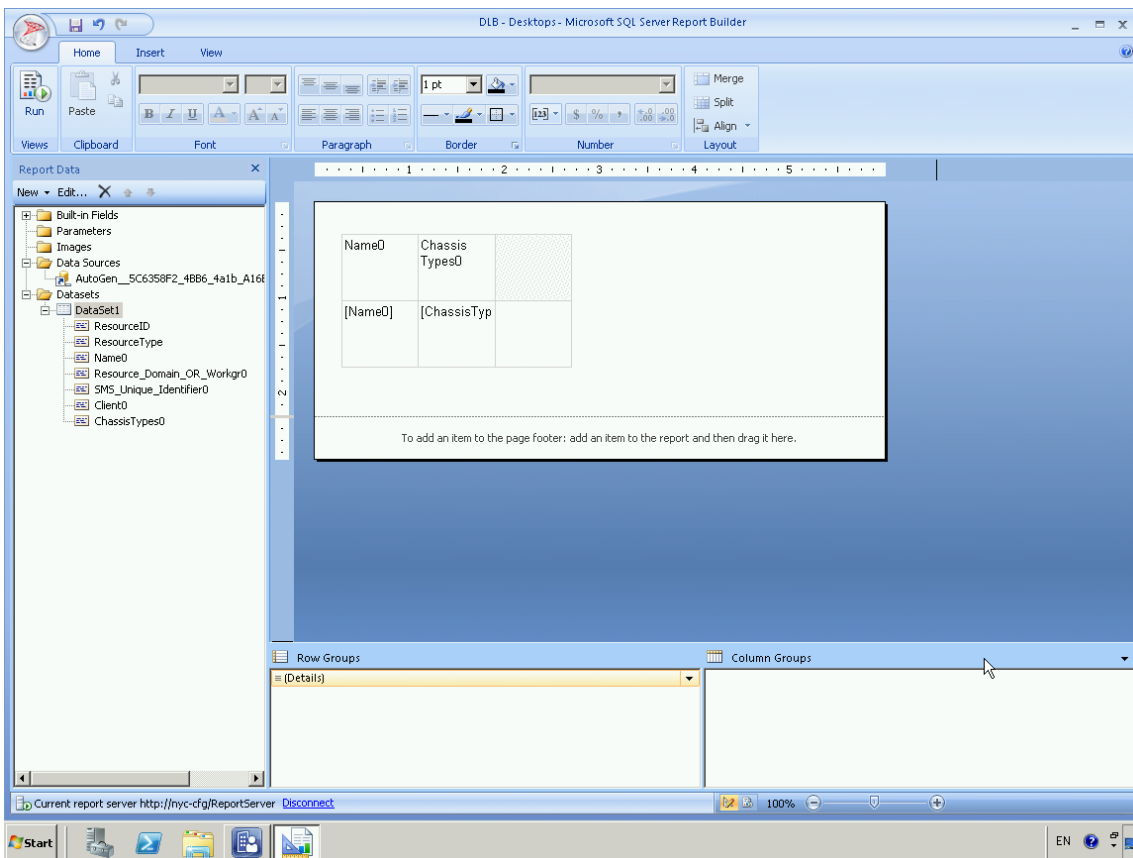
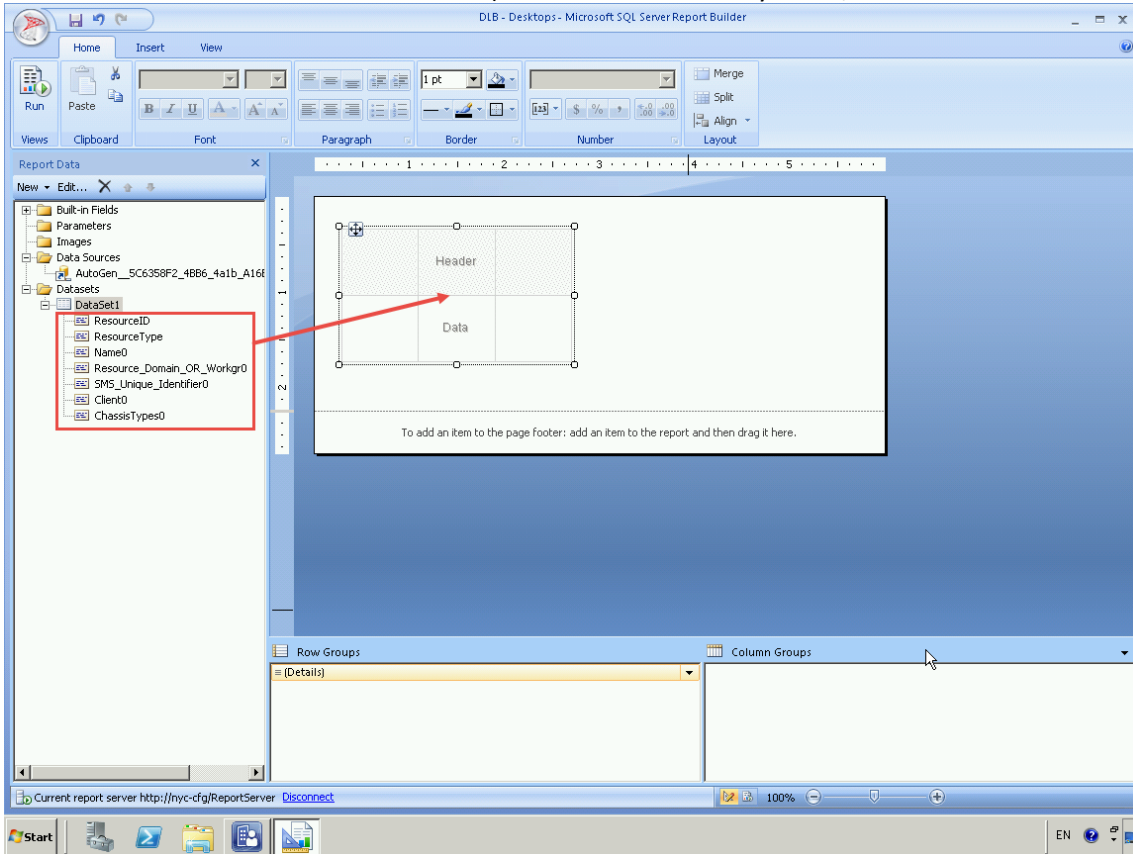
If the Username and Password work, you'll be taken to this screen, where the dataset is visible on the left:



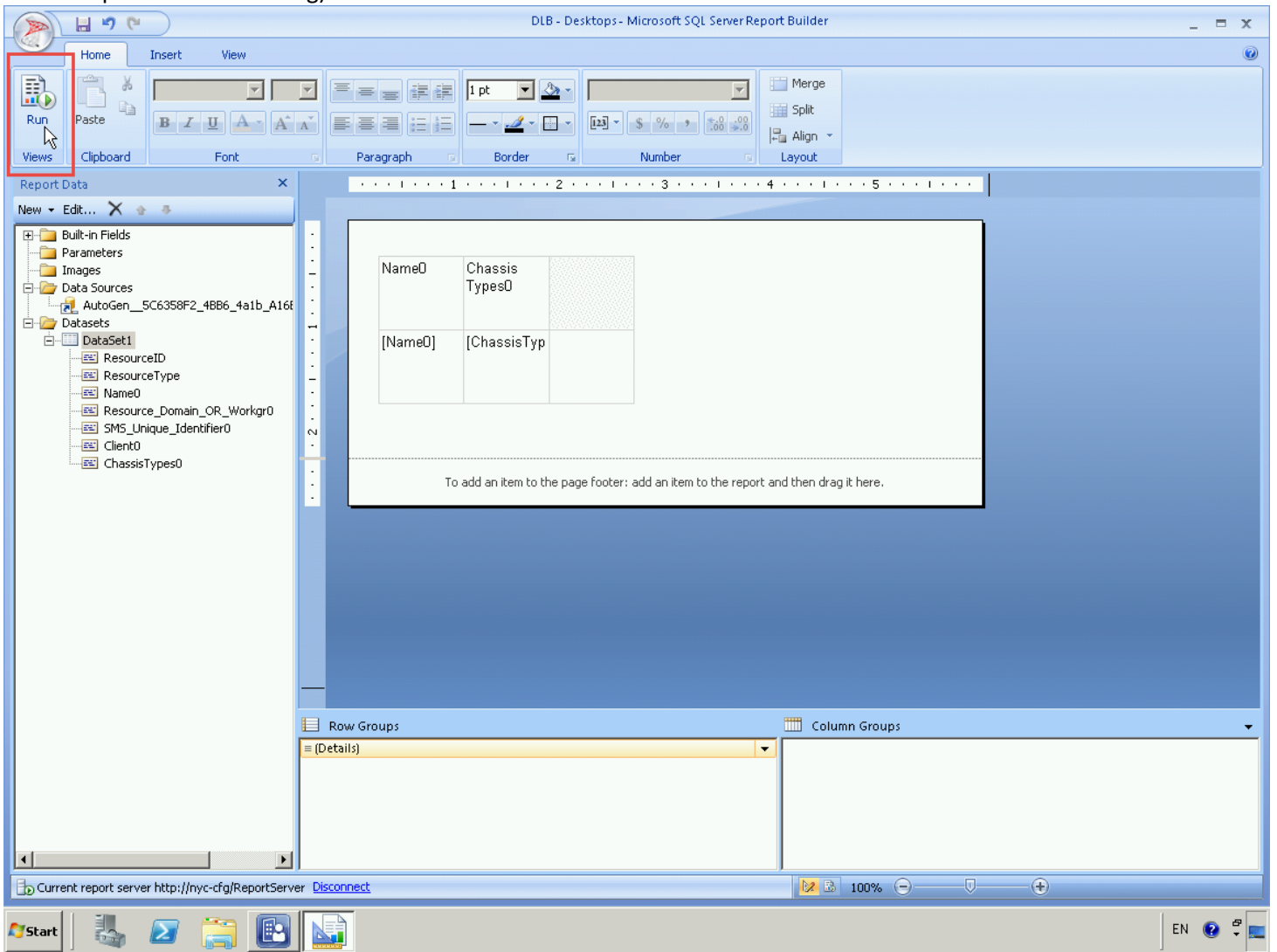
## Insert a table:



LD items from the dataset into the table (bracketed items are dynamic, non-bracketed items are static text):



Run the report to see how it looks (be patient, it sometimes takes 10 seconds for ANYTHING to happen, and 30 seconds for the report to finish loading):



Go back into design mode:

DLB - Desktops - Microsoft SQL Server Report Builder

Run

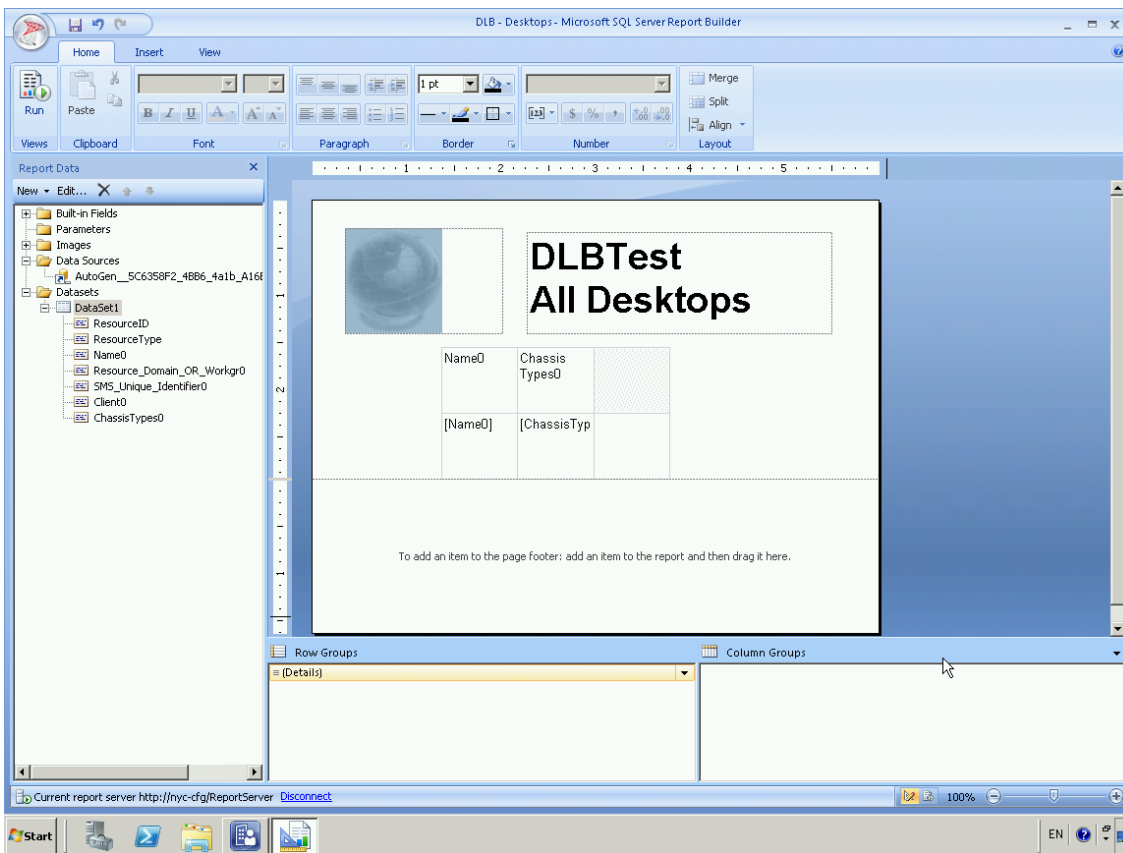
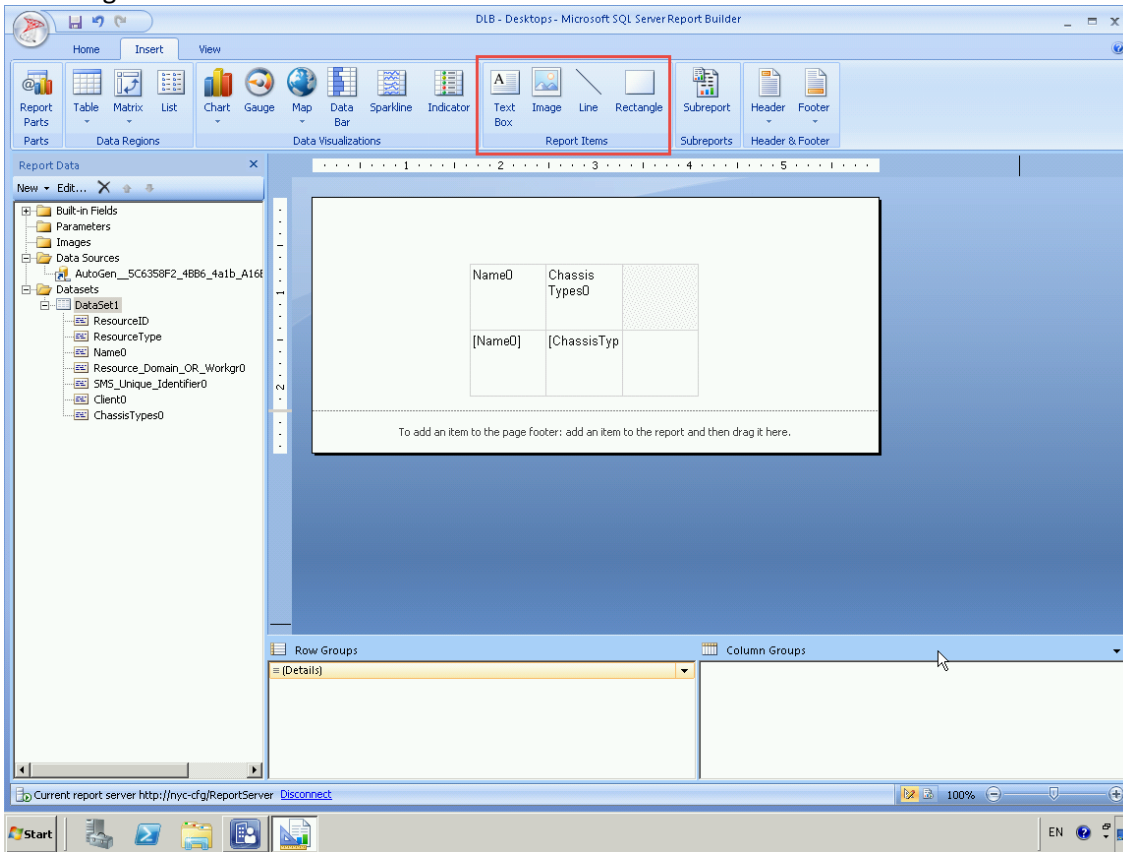
Design Zoom First Previous of 1 Next Last Refresh Stop Back

Print Page Setup Print Layout Export Parameters Document Map Find

Name0	Chassis Types0
NYC-CFG	3
NYC-CL1	3

Current report server http://nyc-cfg/ReportServer 100%

Add images and text boxes above the table:



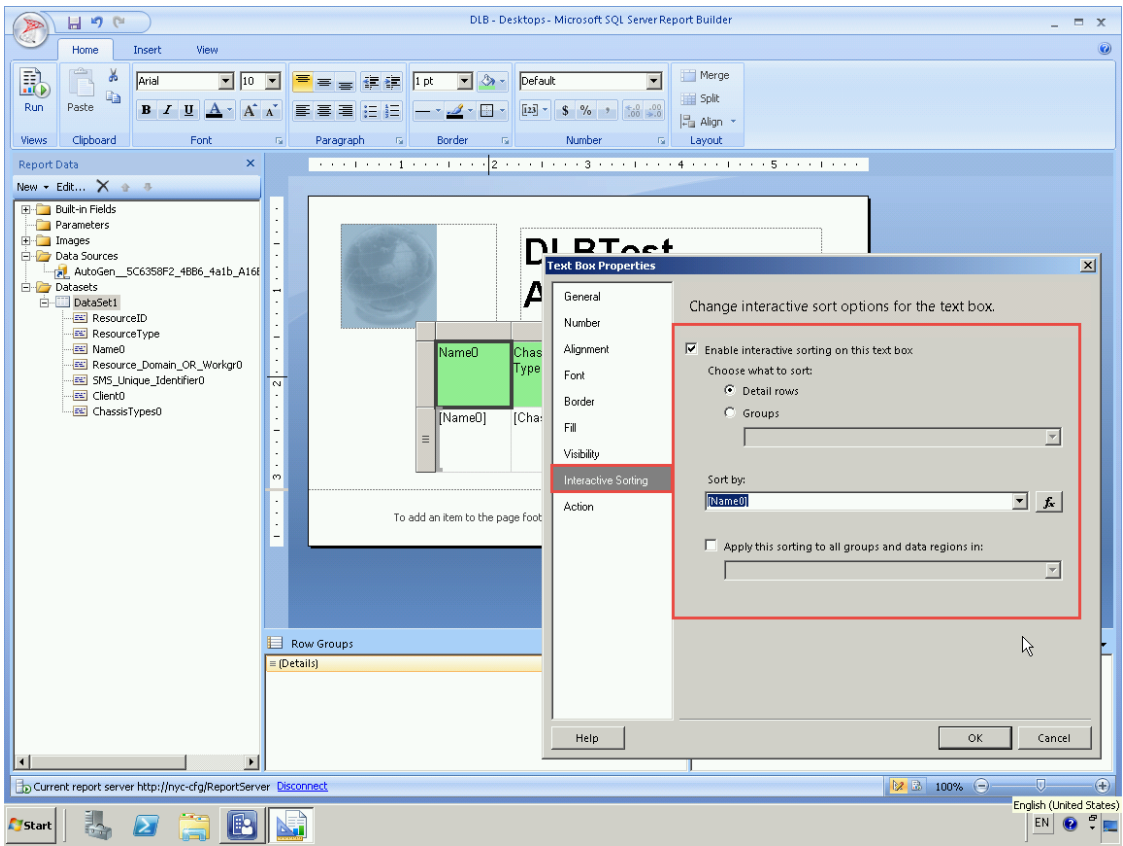
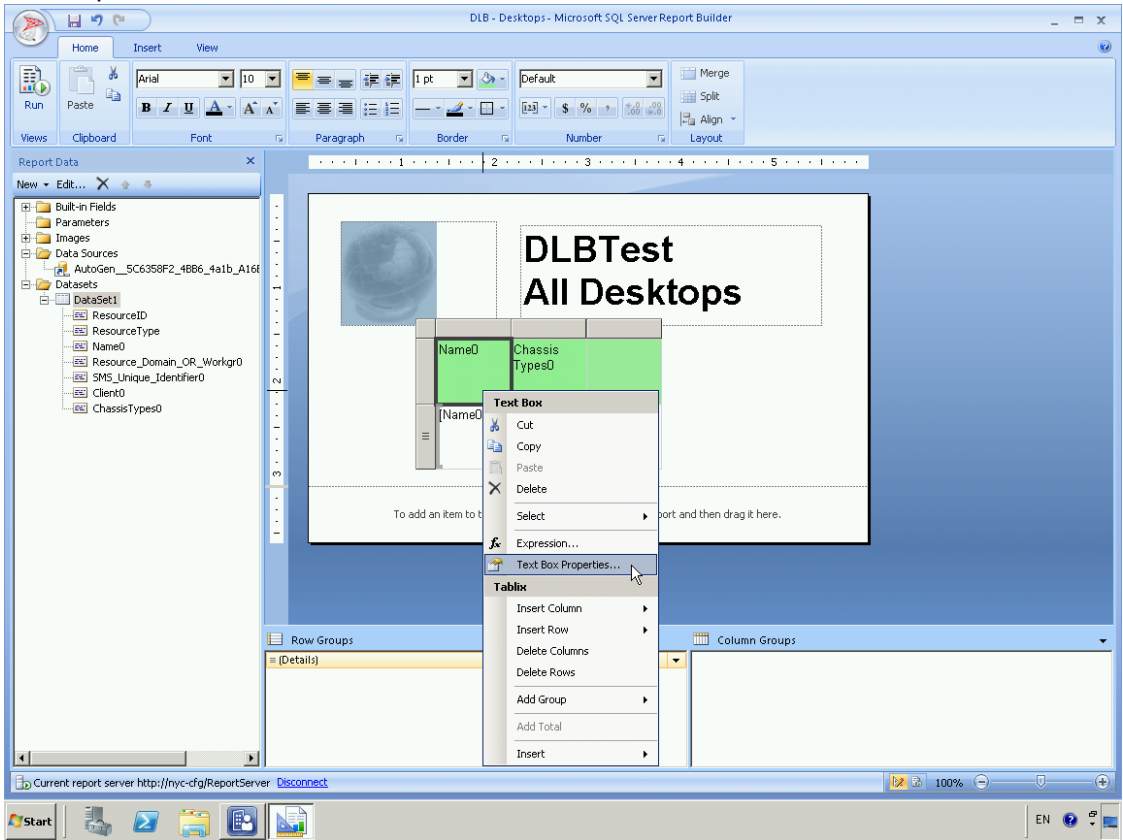


Add color to the header row:

The screenshot shows the Microsoft SQL Server Report Builder interface. The main window displays a report design with a table and a color palette. The table has two columns: 'Name0' and 'Chassis Types0'. The header row is highlighted, and a color palette is open over it, showing various color options. The palette includes a 'No Color' option and a 'More colors...' link. The report design also includes a large image of a globe and the text 'All Desktops'. The 'Report Data' pane on the left shows a tree view of the report's data sources and datasets. The 'Row Groups' and 'Column Groups' panes at the bottom show the report's structure. The status bar at the bottom indicates the current report server is 'http://nyc-cfg/ReportServer' and is 'Disconnect'.

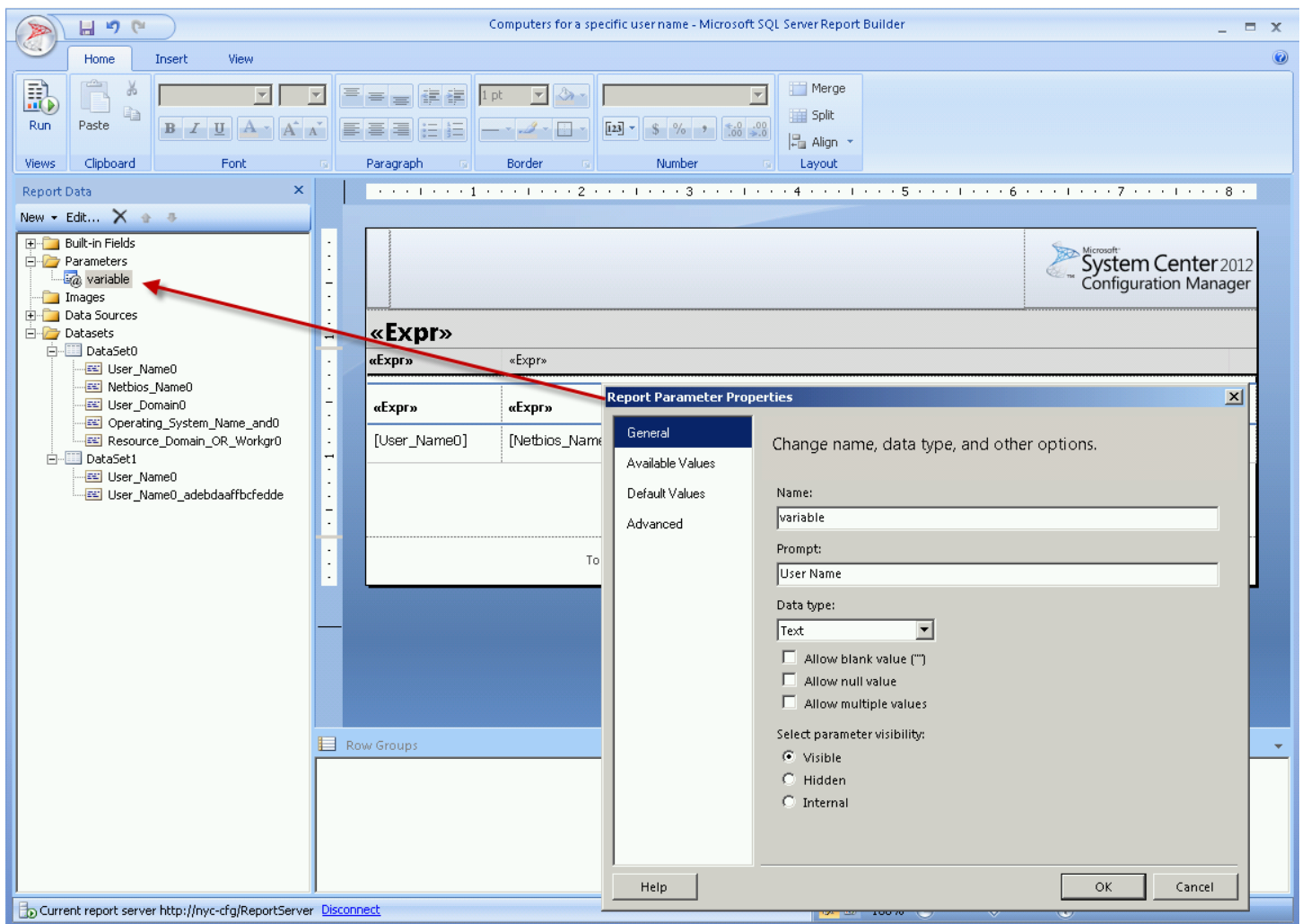
Name0	Chassis Types0
[Name0]	[ChassisTyp

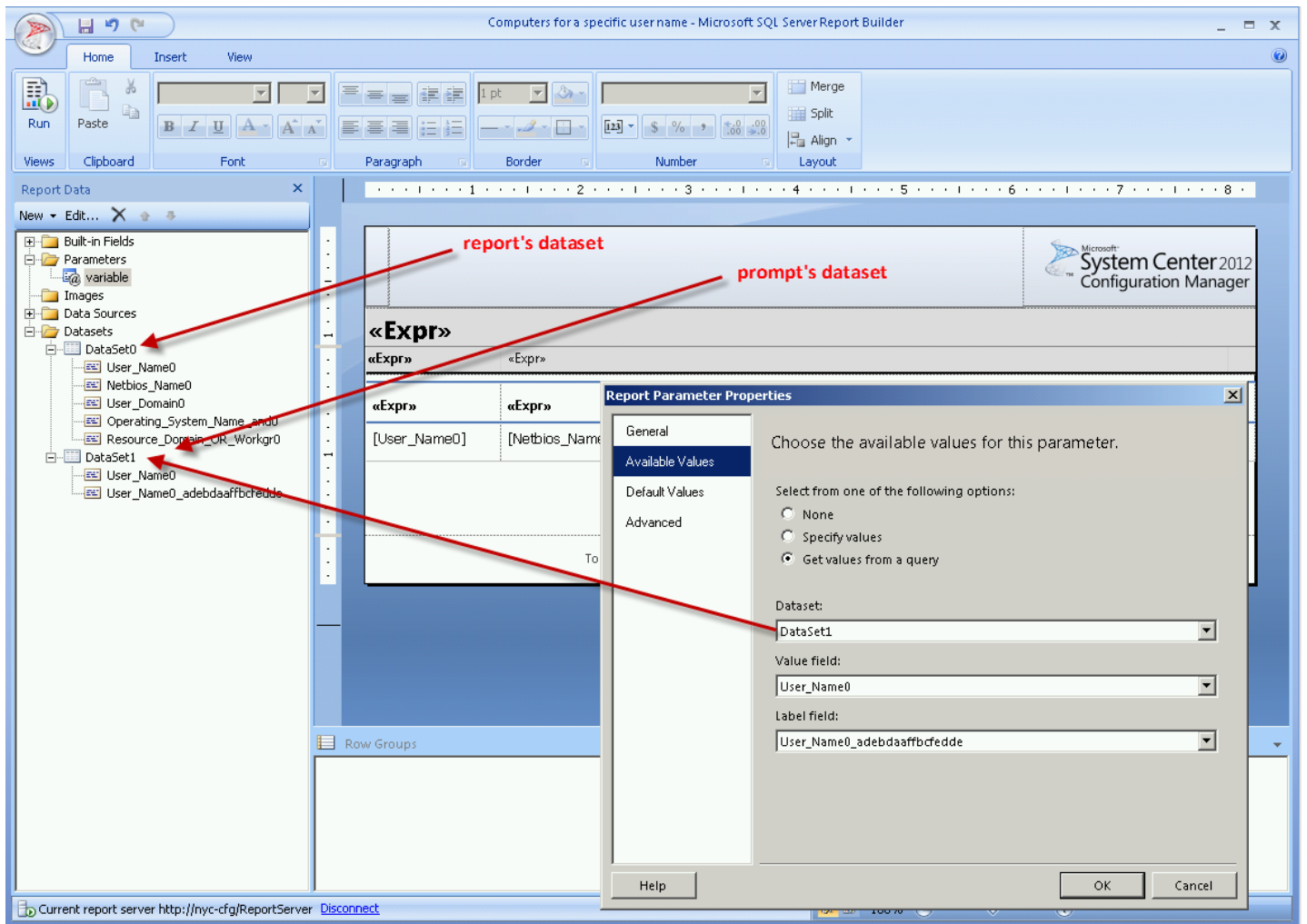
Add sorting to your report table (LC the header of the column so it has a heavy border, then RC that header cell, LC 'Text Box Properties':



# Adding a Prompt to your Report:

<http://asithadesilva.wordpress.com/2013/04/01/how-to-prompt-collection-to-a-report-in-sccm-2012/>





The above two screenshots were taken from the canned 'Computers for a specific user name' report, which has:

#### Report's dataset (dataset0):

```
SELECT SYS.User_Name0, SYS.Netbios_Name0, SYS.User_Domain0,
       Operating_System_Name_and0, SYS.Resource_Domain_OR_Workgr0
FROM v_R_System SYS
WHERE User_Name0 LIKE @variable
ORDER BY SYS.User_Name0, SYS.Netbios_Name0
```

#### Prompt's dataset (dataset1)

```
begin
if (@filterwildcard = '')
SELECT DISTINCT SYS.User_Name0 from v_R_System SYS Order by
SYS.User_Name0
else
SELECT DISTINCT SYS.User_Name0 from v_R_System SYS
WHERE SYS.User_Name0 like @filterwildcard
Order by SYS.User_Name0
end
```