Microsoft Business Intelligence 2012

Single Server Install Guide

Howard Morgenstern
Business Intelligence Expert
Microsoft Canada
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This guide will walk you step by step, screen by screen, in how to install and configure a complete standalone Microsoft Business Intelligence Server. The order of the installation process is

- Install the SharePoint 2010 bits + SP1 but do not configure
- Install PowerPivot for SharePoint, with the SQL database instance. The SQL Server database engine will be installed (as a named instance) during this part of the setup. Note that there will be no “default” instance for the DB engine in this setup.
- Run the PowerPivot Configuration tool, which creates the SharePoint farm
- Install SQL Analysis Services Tabular Mode, SQL Reporting Services (including the SharePoint Add-in), and SQL Analysis Services Multidimensional Mode.
- Configure the SharePoint BI Service Applications; PerformancePoint, Excel Services, Reporting Services
- Create 2 SharePoint sites; BI site, powerpivot site
- Add BISM and Report Builder content types to the SharePoint sites

The installation process should take a couple of hours, mostly copying files over. We will run 3 separate installs of SQL Server in order to get all of the BI components installed. In the end we will be running 3 instances of SQL Analysis Services: PowerPivot for SharePoint, Tabular, Multidimensional. Client side components will still need to be installed including: SQL Server Data Tools (available on SQL disk), PowerPivot add-in for Excel, Report Builder and Dashboard Designer (both covered in this doc). Data Quality Client and Master Data add-in for Excel are also available. Data Mining add-in for Excel (new 64-bit version).
Windows Server 2008 R2 Install
1. Install Windows Server R2 + SP1 – minimum 8 GB RAM
   a. Be sure the machine has access to the internet
   b. Add the Machine to an Active Directory domain.
   c. Create/Aquire a domain user account (service account) to run all services under
   d. Add the Domain user account to the local administrators group

SharePoint 2010 Install
2. Run setup.exe installer from the SharePoint 2010 media
3. Click on Install Software prerequisites
4. Click Next button
5. Accept the License terms by clicking the checkbox then click Next button.
6. Installation will start

7. Once completed click Finish button.

8. Click Install SharePoint Server
9. Enter Product Key, once is validated press Continue button

10. Accept License Terms and click Continue
11. Click Server Farm option

12. Select Complete Option then Click Install Now button

13. Wait until installation is completed
Once the installation is completed, uncheck the option “Run the SharePoint Products Configuration Wizard now”. **DO NOT RUN THE CONFIG WIZARD**

Install SharePoint 2010 SP1 (Double click on officeserver2010sp1-kb2460045-x64-fullfile-en-us application)

Accept the License Terms then click Continue button.

Once completed, press OK button.
PowerPivot Install


Click next
Enter product key. (enterprise version required)

Accept license terms. Click Next
Click Next if everything has passed.
Select powerpivot for SharePoint, and check the Relational database.
Click next
Accept the default instance name (powerpivot). Click next
Click next
Enter the domain service account user name and password. Click next
Add the domain service account. Click next
Click next
Ready to Install SQL Server 2012:

- **Editions**: Enterprise
- **Action**: Install (Product Update)

**Prerequisites**
- **Already installed**:
  - Windows PowerShell 2.0
  - Microsoft .NET Framework 3.5
- **To be installed from media**:
  - Microsoft .NET Framework 4.0 (may require reboot)
  - Microsoft Visual Studio 2010 Shell

**General Configuration**
- **Features**:
  - Database Engine Services
  - Analysis Services
  - Analysis Services SharePoint Integration
  - Documentation Components
  - Management Tools - Basic
  - Management Tools - Complete
  - Roles: SPSL5_NewForm
  - Instance Name: POWERSYOT
  - Instance ID: POWERSYOT

**Instance Configuration**
- Instance Name: POWERSYOT
- Instance ID: POWERSYOT

**Configuration file path**:
C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\log\20120430_090432\ConfigurationFile.ini

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**Complete**

Your SQL Server 2012 installation completed successfully with product updates.

**Information about the Setup operation or possible next steps**:

- **Features**
  - Management Tools - Complete
  - Management Tools - Basic
  - Database Engine Services
  - Analysis Services
  - Analysis Services SharePoint Integration
  - SQL Browser
  - Documentation Components
  - SQL Server

Please launch the PowerPivot Configuration Tool to configure the server.

**Details**

**Viewing Product Documentation for SQL Server**

Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see the Microsoft Books Online for SQL Server.

Summary log file has been moved to the following location:
C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\log\20120430_090432\Summary霭20120430_090432.log
15. Restart if prompted
16. Upon restart, Ensure the SQL Database is running

**PowerPivot Configuration**

17. Run PowerPivot configuration tool (from the start menu)

A New Screen appears
Click OK

On this screen, enter the domain service account user name and password. Also enter a passphrase. The passphrase can be any text or number string, just remember what it is in case you want to add a server to the SharePoint farm. Click Validate.

If good, proceed to Run
Click Run

Warning

All of the configuration settings that are flagged as valid in the tool will be applied to the SharePoint farm. Do you want to continue?

Click Yes
This will take a few minutes.

Success!

**SQL Server 2012 Tabular Analysis Services + Reporting Services Installation**

18. Re-Insert the SQL Server 2012 installation media and run setup
You want to a new SQL Server stand alone installation
Click OK
Click Next
You want a new instance of SQL Server.
Enter the product Key (enterprise edition)
Accept the licensing terms.
You want a SQL Server Feature install. Click next
Select Analysis Services and the 2 Reporting Services Features. This is the new Reporting Services Service Application for SharePoint. Both components are required in order to run Reporting Services in SharePoint integrated mode.
Enter the named instance. I suggest calling it TABULAR
Click Next
Enter the domain service account username and password.
Select Tabular Mode and add the domain service account user. You can also Add current user.
Click Install. This will take a few minutes.
We’re good. Click Close.

**SQL Server 2012 Multidimensional Analysis Services Installation**

19. Re-Insert the SQL Server 2012 installation media and run setup
Click on new SQL Server stand alone install.
Product Key

Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.

- Specify a free edition:
  - Evaluation

- Enter the product key:
  - 748R-R4T86-NBVPV-TUFF-FCHBN

[Next]
License Terms

To install SQL Server 2012, you must accept the Microsoft Software License Terms.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT SQL SERVER 2012 ENTERPRISE SERVER/CAL EDITION

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft:

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

I accept the license terms.

Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.

See the Microsoft SQL Server 2012 Privacy Statement for more information.
Click Next
We are creating a new instance.
Click Next
Select Analysis Services. Click Next
Enter the named instance name. I suggest calling it MULTI. Click Next
Disk Space Requirements

Review the disk space summary for the SQL Server features you selected.

Disk Usage Summary:
- Drive C: 805 MB required, 89254 MB available
  - System Drive (C:) 400 MB required
  - Shared Install Directory (C:\Program Files\Microsoft SQL Server\): 0 MB required
  - Instance Directory (C:\Program Files\Microsoft SQL Server\): 366 MB required
Enter the domain service account username and password. Click next.
Select Multidimensional and Data Mining Mode. Add the domain service account user name. You can also Add the current user. Click Next.
Click Install. This will take a few minutes.
We’re good. Click Close. The SQL Server portion of the install is complete.

**SharePoint 2010 Configuration**

20. Run SharePoint 2010 Central Administration. From the Start Menu.
A Web browser will open and you should see the screen below.
We will create the Reporting Service Service Application. Under Application Management, Click on “Manage Service Applications”
Click on the New Button, and select SQL Server Reporting Services Service Application.
Enter a name, Create a new Application Pool and give it a name. also click the web application association option near the bottom of the screen. Ensure the other information is correct. Click ok.
Good. Click OK.
Click on Configuration Wizards, and Launch the Farm Config Wizard.
Click on Start the wizard.
Take the defaults. Use the existing managed account. Click Next at the bottom of the screen.
When it completes, you have the option to create a top level site. Add the title of the site, enter the desired URL and Select from the Enterprise templates a Business intelligence Center. Click OK.
Click Finish.
Under Application Management, Select Manage Service Applications. We will configure the Performance Point Service Application.
Click on the PerformancePoint Service Application.
Click on the Service Application Settings.
Enter the domain service account username and Password. Click OK.
Under Application Management, Manage Service Applications, click on the Secure Store Service
Click on the New Button.
Enter a Target Application ID and Name, email address and Select Group for the Application type. Click Next.
Leave Defaults. Click Next
Add the domain service account user and the administrator, you can add any other users and groups as members. Click OK.
Select the Excel Service App and click the Set Credentials button.
Enter the domain service account username and password. Click OK.
Now we want to create a site collection for PowerPivot. Click on Application Management, Under Site Collections, create a site collection.
Enter the desired site name, url and select from the collaboration template, powerpivot site, add a user name for primary and secondary Site Collection Administrator. Click OK.
Click on the link to the new site. Click ok.
Click on the PowerPivot Gallery link.
Click on install Silverlight and run through the install.
PowerPivot + PowerPivot Gallery
Share a document with the team by adding it to this document library.

Internet Explorer - Security Warning
Do you want to run this software?

Name: Microsoft Silverlight Installer
Publisher: Microsoft Corporation

More options Run Don't Run

While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?
Click Close. The Silverlight gallery will display.
Click on the library tab, and click the library settings button.

There are no items to show in this view of the document library. To create a new item, click “New” or “Upload” above.
Click on the Advanced Settings link.
Select “Yes” to allow management of content types. Click Ok at bottom of screen. If you anticipate to load large Powerpivot workbooks, you need to increase the Maximum Workbook Size. See how to increase the size at: [http://msdn.microsoft.com/en-us/library/ff487972.aspx](http://msdn.microsoft.com/en-us/library/ff487972.aspx)
Click Add the “Add from existing site content types” link.
Select BI Semantic Model Connections from the Available site content types and Add it. Click Ok.
Now go the BI site.
Click on Create Dashboards, Start using PerformancePoint Services.
Click on the run dashboard designer button.

**Application Run - Security Warning**

Do you want to run this application?

**Name:**
DashboardDesigner.exe(en-us)

**From (Hover over the string below to see the full domain):**
rc0

**Publisher:**
Microsoft Corporation

[Run] [Don't Run]

While applications from the Internet can be useful, they can potentially harm your computer. If you do not trust the source, do not run this software. [More Information...]

Click Run.
Dashboard Designer will appear. Go back to the BI Site and Click on the Libraries Link (on the left side).
Click on Documents.
Click on Advanced Settings.
Click on “Yes” to allow management of content types. Click OK at bottom of screen.
Add the Report Builder Report type. Click OK.
Click on the Documents Link at the top of the page.
Click the New button, and Select Report Builder Report. This will install the Report builder client.
Run through the install as below.
We are essentially done. A couple things to note. Check the Server Services and ensure the Claims to Windows Token service is running under a local system account.
Also ensure that all the SQL Server instances are running.