Bhaviks B.I. Babble

... on Microsoft Business Intelligence technology and more!

Setting Up a SharePoint 2013 BI Demo VM

I just built up a new demo environment for BI with Windows Server 2012, SQL 2012 SP1 and SharePoint 2013. This is primarily to take advantage of the new Power View enhancements that came out with SQL 2012 SP1 but I do step through getting all the other BI services up and running. What follows is a general guide, providing an overview of the main steps and links to other information where necessary. I am focusing on the SQL and SharePoint install here, so I assume you have a Windows Server installation ready and have setup a domain and DNS services. I used Windows Server 2012 for my VM.

Pre-requisites

- If you don't have an internet connection from your VM, make sure you have downloaded the Sharepoint 2013 pre-requisites. An <u>in-depth guide exists on TechNet</u> (<u>http://social.technet.microsoft.com/wiki/contents/articles/14582.install-sharepoint-2013-prerequisites-offline-or-manually-on-windows-server-2012-a-comprehensive-guide.aspx</u>) which discusses options on obtaining the pre-requisites, and then <u>this guide will help you</u> (<u>http://www.dontpapanic.com/blog/?p=241</u>) install them quickly.
- 2. Then you will also need the following
- °0 Windows Server 2012
- °O Microsoft Office 2013 (Excel and PowerPoint)
- o SharePoint 2013
- •• <u>SQL Server 2012 Samples (http://msftdbprodsamples.codeplex.com/releases/view/55330)</u>. It's a good idea to deploy all these to test all your features are working as expected.
- <u>Visual Studio 2010 Tools for Office Runtime</u> (<u>http://www.microsoft.com/download/en/details.aspx?id=20479</u>). The MDS Client for Excel and PowerPivot 2012 will need this. You can get these clients and other goodies in the <u>SQL Server</u> <u>2012 Feature Pack (http://www.microsoft.com/download/en/details.aspx?id=29065)</u>
- 90 SQL Server 2012 Data Mining Addins (http://www.microsoft.com/download/en/details.aspx? id=29061)

Installing SQL Server 2012

- 1. Ensure Windows has the Active Directory Domain Services role instealled. **This is important so we can use a proper domain account for services**. Ive seen problems when using built in service accounts. It will suggest you add in the DNS Server role a well. I did so. In my virtual machine I setup 2 network adapters one with a fixed IP on an internal virtual LAN Segment, the other bridged so it could access my host's internet connection.
- 2. Install a DEFAULT instance of SQL Server 2012. I used slipstreamed media which has SP1 built in. Things to note:

http://bhavikmerchant.wordpress.com/2012/12/08/setting-up-a-sharepoint-2013-bi-demo-vm/

°O I used the domain Administrator account to run all services except for the Browser, Agent and Full Text Filter.

°O

Remember to add the domain Administrator account as an admin to the relevant services as you configure them in the install Wizard. You don't want to be locked out later

These are the features I selected (pretty much all)..

•	S	QL Server 2012 Setup	- O X
Feature Selection Select the Enterprise features to	o install.		
Select the Enterprise features to Setup Support Rules Setup Role Feature Selection Installation Rules Installation Rules Installation Configuration Database Engine Configuration Analysis Services Configuration Distributed Replay Controller Distributed Replay Controller	Instance Features Instance Features Sold Server Replication	n c Extractions for Search R ePoint + for ShacePoint Products ompatibility ents c Complete iller DK	Feature description: Includes Analysis Services and tools used to support online analysis Services can be clustered. Prerequisities for selected features: Meady installed: Meady installed: Monosoft NET Framework 4.0 Windows PowerShell 2.0 To be installed: Microsoft Visual Studio Tools for Applications Windows Rester Visual Studio Tools for Applications Windows Rester Visual Studio Tools for Applications Vindows RT Framework 3.5 < Its and the study of the study
	Shared feature directory:	C:\Program Files\Microsoft SQL Server\ C\Program Files (u86)\Microsoft SQL Server	

... Noting that when I configured the services, I picked Multidimensional and Data Mining Mode:

	SQL Server 2012 Setup	×
Analysis Services Confi Specify Analysis Services server	guration modes, administrators, and data directories.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data Directories Server Mode: Multidimensional and Data Mining Mode Tabular Mode Specify which users have administrative permissions for Analysis DOMAIN/Administrator (Administrator)	Services. Analysis Services administrators have unrestricted access to Analysis Services.

- 1. I then ran the Reporting Services Configuration tool to setup the Native SSRS instance.
- 2. I wanted a Tabular version of SSAS, so I ran the installer again and chose to install a NAMED instance of SQL Server 2012, which I called TABULAR. This time the only feature I selected was Analysis Services, but when asked to choose the mode I selected Tabular.

SQL Server 2012 Help

For some reason Microsoft decided not to include local help files on the SQL install media so you need to <u>get it yourself (http://www.microsoft.com/en-us/download/details.aspx?id=347)</u> and manually install it. It can be a bit tricky so pay attention to the instructions that follow the download:



Developer Tools

At this point I would recommend installing the following:

- SQL Server Data tools (http://msdn.microsoft.com/en-us/data/tools.aspx) (i.e. SSDT highly recommended)
- ⁹⁰ <u>SSDT Power Tools (http://visualstudiogallery.msdn.microsoft.com/9b0228c6-15d1-44de-9279-66dde12bf861)</u> (the official mechanism to update SSDT)
- vo Visual Studio 2010 with SP1 (if you want need complete .Net programmability)

Installing Sharepoint 2013

 Start the SharePoint 2013 installer (autorun from the dvd/mounted ISO, or manually run default.hta). *If you havent already* installed the pre-requisites then do so using the option shown below:



2. After pre-requisites are installed, from the install launcher shown above select the "Install SharePoint Server" option. When the SharePoint install has completed, De-select the option to run the configuration wizard.

Installing PowerPivot for SharePoint

1. You will need to get back to the SQL Server 2012 installation media and run the SQL installer. Step through the usual installer screens and select the PowerPivot option when you are asked to choose the Role as shown below. Be sure to de-select the option to install the relational database (we will use the default instance we set up earlier to host SharePoint databases)

8	SQL Server 2012 Setup	•	×
Setup Role Click the SQL Server Feature In feature role to install a specific Setup Support Rules	nstallation option to individually select which feature components to install, or click a configuration.		
Installation Type Product Key License Terms Setup Role Installation Rules Instance Configuration Disk Space Requirements Server Configuration Analysis Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration S and other features. SQL Server PowerPivot for SharePoint Install PowerPivot for SharePoint on a new or existing SharePoint server to support PowerPivot access in the farm. Optionally, add the SQL Server relational database engine to use as the new database server. Add SQL Server Database Relational Engine Services to this installation. All Features With Defaults Install all features using default values for the service accounts.	data farmi	5
	<back mext=""> Cancel</back>	Help	

1. At the Instance Configuration screen of the wizard i entered POWERPIVOT for my Instance ID

5	SQL Server 2012 S	etup		_ 0 X
n e ID for the instance of SC	QL Server. Instance ID	becomes part of the in	stallation path.	
O Befault instance Ngmed instance	POWERPIVOT			
Instance JD: Instance goot directory	POWERPIVOT C:/Program Fil	es\Microsoft SQL Serv	e/	
Analysis Services direc	tory: C1Program File	s\Microsoft SQL Serve	MMSAS11.POWER	PIVOT
Instance Name	Instance ID	Features	Edition	Version
MSSQLSERVER	MSSQL11.MSSQL5	SQLEngine SQLEn	Enterprise	11.1.3000.0
TABULAR	MSAS11.TABULAR	AS	Enterprise	11.1.3000.0
<shared compone<="" td=""><td></td><td>SSMS, Adv_SSMS,</td><td></td><td>11.1.3000.0</td></shared>		SSMS, Adv_SSMS,		11.1.3000.0
		< Rack No.	1) (100	al Helo
	I I I I I I I I I I I I I I I I I I I	SQL Server 2012 Si I Do the instance of SQL Server. Instance ID I Default Instance Named Instance Named Instance POWERPIVOT Instance ID: Instance ID: Instance got directory: CI-Program File Instance Name Instance ID Instance ID	SQL Server 2012 Setup	SQL Server 2012 Setup

2. Step through the remainder of the installer, remembering to add yourself as an administrator when prompted. I also chose to run the service using the Administrator account.

Base setup of up the Sharepoint Farm

Instead of using the SharePoint Products Configuration Wizard to configure our farm, we use the new PowerPivot Configuration tool to do this for us. The beauty of it is it will setup a bare minimum Sharepoint farm. Nice and lean, so it will run quicker which is important for demos. I find the Microsoft supplied VMs HUGE (75Gb) and slow. <u>Check here</u>

(http://bhavikmerchant.wordpress.com/2012/04/14/converting-the-microsoft-integrated-sql-2012demo-from-hyper-v-to-vmware-workstation/) for my guide on how to convert one from Hyper-V to VMWare. Just a reminder that <u>Windows 8 includes client Hyper-V (http://technet.microsoft.com/enus/library/hh857623.aspx</u>) which is great if you want to stay away from VMWare products for any reason.

1. Start the PowerPivot Configuration Tool from the SQL Server 2012 Program Group:



1. Pick the first option as shown – there will be no choice on an unconfigured farm anyway



2. The tool will perform some checks and then present you with a list of tasks. Fill in the first screen with settings to match your setup, then click Validate. You'll see this:

	PowerPhot Consignation Tool		
urrent Task: Configure or Repair PowerPivet for SharePoint			
Oconfigure or Repair PowerPirot for SharePoint	Exameters Script Qutput		
Configure New Yam Configure New Yam Ved Integration Ved and Opploy DeveRived Solution Ved Add New Solution Ved Serv Solution	This task creates or modifies the config Sharefloint is not configured, you can application, and create the root site co all actions are configured correctly bef	pration settings of a PowerNvet for Sharefluent installation. If relude actions that configure the form, owate a default tille feetion. All validated actions are processed in batch mode. Be s my you chick flue.	er the
Poppoy Web Application Solution to Central Administration Popping Department Features	Default Account Usemame	DOMA/N/Administrator	
Y Install PowerPivot Farm-Level Feature	Default Account Password		
♥ Install PowerFivot Central Administration Feature	Database Server	touhest	
V Install PowerFivet Site Level Feature	Passphrase		
F Configure Local Service Instances F Banister Douardium Centers Service on Local Server	Confirm Passphrase		
Create PowerPirot Service Application	SharePoint Central Administration Port	4102	
Create Default Web Application	PowerPivot Server for Excel Services	invaluent DOM/EDU/07	
▼ Deploy Web Application Solution	(Sevenhame) PowerPivot)	Statute Portage Port	
P. Coasta San Collection P. Actuare Showflow Experience P. Sant the Calines to Windows Token Envise P. Sant the Calines to Windows Token Envise P. Sant the Calines to Windows Token Envise P. Sant Secure Store Service P. Sant Secure Store Service P. Sant Secure Store Service P. Sant Secure Store Service Application Prace Configure Event Store Service Magnification Prace Configure Event Store Service P. Sant Event Store Service P. Sant Event Store Service P. Sant Event Store Service Magnification Prace P. Sant Event Store Service P. Sant Event Service P. Sant Secure Service P. Sant Se	The Powerflowt Configuration Tool use used to provision all of the services in the distabilises engine instance is detected by the output of SQL former distabilist engineers the accessing Central Adm the port field black to use a previolet to enable the core Powerflowt capabilit Lenter noise allowd this test. Configure New Farm Walks for Parameter Glashbace for Mala to Parameter Glashbace Assess	It default values for an initial configuration. The sense farm acc the farm. This account must be a domain user account, On a re- ding and of the fact balances used in the farm. If a local 2(2), Serve the configuration tool uses that instance is a domain. The fact property of the support of the Sourceston some farm. The fact property of the support of the sourceston some farm. The fact property of the support of the sourceston some farm. The fact property of the support of the sourceston some farm to be property of the sourceston some sourceston some sourceston for the configuration settings for this action are valid. wer) in mult series sourceston. In the sourceston settings for this action are valid. Mark to be a sourceston.	sunti is iv farm, ir minen uphrase he-point - Leave invices

At this point you *could* press Run and have it perform all those activities. However, whats great about this setup compared to the SQL 2008 R2 is that we can actually customise *some* of Service Application and associated database names to remove the dreaded GUIDs that get appended to them. You can also control some of the IIS setting such as Web Application name and App Pool. These are the tasks I suggest click on to customise:s

- ºo Create PowerPivot Service Application
- ° Create Default Web Application
- o Deploy Web Application
- ° Create Site Collection
- ° Create Unattended Account for DataRefresh
- 1. When you've finished customising you'll notice it informs you where you've made changes to the tasks. You can click the Script tab to view the PowerShell commands that will be executed. This is great to learn from and also to save away for a future scripted setup. I can see this being useful to tweak for a proper production setup. Beware: you need to select the topmost task to get the whole script showing up. This means if you are looking to find the PowerShell commands for just a select task/task group, you can click the appropriate section.



2. Click Validate, and if successful, click Run. This will take a bit of time... If all goes well you will see this:



And you can verify in IIS that the sites were setup:

Connections
🔍 - 🔚 🖄 😣
- 💐 Start Page
SP2013BI (DOMAIN\Administrator)
- Application Pools
⊿ - 🗃 Sites
Default Web Site
SharePoint - 80
SharePoint Central Administration v4
SharePoint Web Services

3. Navigate to our new SharePoint site. I usually at this point remember to turn off Internet Explorer Enhanced Security by going to Server Manager and selecting the appropriate option under Local Server

4	Server Manager			
€ Server Ma	anager + Local S	erver		
E Dashboard	PROPERTIES For \$P20138			
Local Server All Servers AD DS App Server	Computer name Domain	SF20138 DOMAIN.local	Last installed updates Windows Updates Last checked for updates	Neven Not configured Neven
DNS File and Storage Services + Bo IIS	Windows Firewall Ramote management Remote Desktop NC Taaring Ethernet Ethernet 2	Domain On Enabled Enabled Disabled 100.01. (Md enabled TML address assigned by DHCP, (Md enabled	Windows Error Reporting Customer Experience Improvement Program IE Enhanced Security Configuration Time atom Product ID	OH Not participating 2007-18800 Parts 20183-8001-36889-AA827 (activated)

- 4. Finally I add the Sharepoint Site to the trusted sites in Internet Explorer.
- 5. So now our site should work and if you browse to it you should see the vanilla Sharepoint page configured with a PowerPivot Gallery.



There are two more components left to configure for a basic BI setup. SSRS/Power View and then PerformancePoint.

Enabling SharePoint Enterprise Features and Services

Before we try to setup these other BI services it's a good idea to turn on other services we might need for demos and also Enterprise features for the Site Collection and Site.

1. First in Central Admin select Manage Services on Server:



In there I enabled:

- 90 Business Data Connectivity Service
- vo PerformancePoint Service
- o Visio Graphics Service
- 1. Then in SharePoint go to Site Settings which is now accessed from a little "gear" icon in the top right corner of the browser window:



1. Then manage the Site Collection Features:

Site Collection Administration **Recycle bin** Search Result Sources Search Result Types Search Query Rules Search Schema Search Settings Search Configuration Import Search Configuration Export Site collection features Site hierarchy Site collection audit settings Portal site connection **Content Type Policy Templates** Site collection app permissions Storage Metrics Content type publishing Help settings SharePoint Designer Settings **HTML Field Security** Site collection health checks Site collection upgrade

Make sure the following are activated (Many will already be active, but ive stated all for completeness):

- 90 PerformancePont Services Site Collection Features
- 90 Power View Integration Feature
- °O PowerPivot Feature Integration for Site Collections
- °O SharePoint Server Enterprise Site Collection features
- ºo SharePoint Server Publishing Infrastructure
- 1. Next we have to set enable some features at the Site level. So go back to Site Settings as in Step 1 above. This time select Manage Site Features:

Site Actions Manage site features Enable search configuration export Site Collection Web Analytics reports Site Web Analytics reports Reset to site definition Delete this site Make sure the following are active:

- °O BICenter Data Connections Feature
- °o Mobile Browser View (if you plan to test mobile features)
- o PerformancePont Services Site Features
- °O SharePoint Server Enterprise Site features
- o SharePoint Server Publishing

Note we don't turn on the Report Server File Sync because that is only required for SSRS 2008 R2 to synch back to the SSRS catalogue. In SQL 2012 SSRS is now a proper Sharepoint Service Application – something that was done to address <u>performance problems in Sharepoint integrated mode</u> (<u>http://sqlcat.com/sqlcat/b/technicalnotes/archive/2010/11/03/reporting-services-performance-in-sharepoint-integrated-mode-in-sql-server-2008-r2.aspx</u>).

Configuring SSRS Integration and Power View

This part tripped me up the first time. I thought I had everything working but SSRS and reports simply wouldn't work! After some research, trial and error I understood all the components and config required to get it to work. The main problem is that with the steps we've taken so far, the SSRS Service itself (new in SQL 2012) and its proxy are not actually setup in Sharepoint yet.

A couple of quick PowerShell commands I found on the MSDN <u>SSRS Integration Configuration</u> <u>Guide (http://msdn.microsoft.com/en-us/library/gg492276.aspx)</u> helped here, in the section entitled "Install and Start the Reporting Services SharePoint Service". The note there explains why we don't have SSRS services configured – we installed SQL first so there was no farm for it to configure SSRS on.

- Apps
 Results for "share"

 Image: PowerPivot for SharePoint 2013...

 Image: PowerPivot for PowerPivot for SharePoint 2013...

 Image: PowerPivot for PowerPivot for PowerPivot for PowerPivot for PowerPiv
- 1. Run the Sharepoint PowerShell as an admin:

- 1. Run some PowerShell commands to install the service installed, add the proxy and then start the service:
 - 1. Install-SPRSService
 - 2. Install-SPRSServiceProxy
 - 3. get-spserviceinstance -all |where {\$_.TypeName -like "SQL Server Reporting*"
- 2. Next we can create a SSRS Service Application from Central Admin



Heres where we select the one we want:

SharePoint	
BROWSE SERVICE APPLICATIONS	
New Connect Delete Manage Administrators	Properties
Access Services Access Services 2010	
App Management Service Business Data Connectivity Service	on Disco
Excel Services Application	lication
Achine Translation Service	ices_Ser
Managed Metadata Service	Service
PerformancePoint Service Application	ot_Servi
Search Service Application	erPivot
Secure Store Service	ore Sen
SQL Server PowerPivot Service Application	Ire Stor
SQL Server Reporting Services Service Application	lakan C
User Profile Service Application	oken S
Visio Graphics Service	geAppli
Word Automation Services	S_Usage
Work Management Service Application	

The settings ive used are highlighted (first page):

Specify the settings for a new SQL Server Re	eporting Services Service Application.	Help
Name Provide a unique name for this Service Application.	SSRS_ServiceApp	^
Application Pool	OUse existing application pool	
Choose the Application Pool to use for this Service Application. This defines the account and	SecurityTokenServiceApplicationPool	\sim
credentials that will be used by this web service. You can choose an existing application pool or create a new one.	Create new application pool Application pool name	
	SSRS_AppPool	
	Select a security account for this application po Predefined Network Service	ol
	Configurable DOMAIN\Administrator	
	Register new managed account	

Then scrolling down:

COL Convert Deposition Convices (CCDC) Convice		
Database	Database server:	^
Use of Windows authentication is strongly	SP201381	-
ecommended. To use SQL authentication, specify the stored credentials which will be used to	Database name:	
connect to the database and if the stored credentials should be used as Windows	Database authentication:	-
credentials should be used as Windows Credentials. Note: The account that is used to provision the database is the application pool identity of SharePoint Central Administration. Learn more about database settings	Windows authentication (recommended) Stored credentials Account: Password:	
	Use as Windows credentials	
Web Application Association Specify a Web Application to be associated to and provisioned for access by this SQL Server Reporting Services Service Application.	SharePoint - 80 (http://sp2013bi/)	
Note: Web applications that are disabled and		~

This should get you to the Success screen shown below – Click the highlighted link to ProvisionSubscriptions and Alerts.



This will take us to the page below where the SSRS service account is given access the SQL Agent. Note the credentials below are sent to the SQL server.. so using the "sa" account will work here too. Note that you can create subscription and alerts if the SQL Agent service is not running – so turn it on if you want to demo this feature.

SharePoint		System Account + 🔕 ?		
		Q sout 33		
5>	Provision Subscriptions and	Alerts - SSRS_ServiceApp		
Central Administration				
Application Management		OK Canoti		
System Settings				
Monitoring	View Status	SOI Canar Agent is supping		
Backup and Restore	Shows whether SQL Server Agent is running.	successive Agencie running		
Security	Reporting Services subscriptions, schedules, and data alerts require that SQL Server Agent is running on the SQL Server instance that holds the Reporting Services service			
Upgrade and Migration	detabases.			
General Application	Download SQL Soliot			
Settings	Deventoed SQL scripts that you can use to allow Reporting Services access to SQL	Download Script		
Apps	Server Agent.			
Configuration Wizards	Man Republic Function in the PAL Function Reput			
Site Contents	Allow Reporting Services to Use SLB, Server Agent	User name		
	required to use subscription, schedule, and data alert features.	domaint _i administrator		
	The credentials you type need to have sufficient permissions to grant execute permission to the DSPacificient excitants in the sension sectimizing much, and marker	Password		
	databases. Type the credentials and click 'OK' to configure access to SQ, Server Agent.			
		Use as Windows oredentials		
		OK Canot		

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3. How to test this? Make sure you have Silverlight installed and then upload a PowerPivot workbook into the PowerPivot Gallery. The Gallery has a link automatically if Silverlight isnt present. You will see a new "Create Power View Report" option in the gallery:



Clicking that will open up the Power View designer:

Control C		
HARD		
Click here to add a title	Elters, K. M. Ville	Field List Autor State
In Audit or Steen structured set structure from an and the structure of the Audit of the structure of the Audit Set Set Set Set Set Set Set Set Set Se		1 - Directly 1 - Directly 1 - Directly 1 - Directly 2
		Drag field, Selection projectation Fields

Configuring PerformancePoint Services

This part is much easier!

1. Verify the PerformancePoint Service is running. In Central Admin you need to go to "Manage Services on Server" (shown below), and once in there just Start the PerformancePoint Service if it isn't running.





2. Next we need to add the PerformancePoint Service Application. So in Central Admin once again we go to the Manage Service Applications page as we did with the SSRS service.



1. Configure the service similar to how we did SSRS, shown below:

New PerformancePo	pint Service Application	×
Specify settings for this servi Applications page.	ice application. You can change these settings later from the Manage Service	^
Name: Specify a name and default status for this service application.		
The setting makes this	DeformanceBalat ServiceAus	-
service application available	PetormancePoint_ServiceApp	_
by detault for web applications in this farm to use. Do not check this setting if you wish to specify manually which web applications should use this service application.	Add this service application's proxy to the farm's default proxy list.	
Line of the default	Database Server	
database server and	SP20138I	
database name is recommended for most	Database Name	
cases. Refer to the	PerformancePoint_Application_DB	
administrator's guide for advanced scenarios where	Database authentication	
specifying database	Windows authentication (recommended)	
information is required.	O SOL authentication	
Use of Windows	Account	
authentication is strongly		
SQL authentication,	Provide the second se	
specify the credentials	Password	

and continuing:

New PerformancePo	pint Service Application			×
				^
Failover Server You can choose to associate a database with a specific failover server that is used in conjuction with SQL Server database mirroring.	Failover Database Server			
Secure Store and Unattended Service Account: The Secure Store Service is used to store the Unattended Service Account used for authenticating to data sources.	The Unattended Service Account is set after configuring Service application. The setting is located in "Manage se SharePoint Central Administration under the Performanc management page. A running Secure Store Service Appl required.	the Performa rvice applicat ePoint Servic ication and Pi	ncePoint ons" in es roxy are	ļ
Application Pool	O Use existing application need			
Choose the Application Pool to use for this	SecurityTokenServiceApplicationPool	~		
Service Application. This defines the account and credentials that will be	Create new application pool Application pool name			
used by this web service.	PerformancePoint_AppPool X			
You can choose an existing application pool or create a new one.	Select a security account for this application pool O Predefined Network Service			
	Configurable DOMAIN\Administrator Register new managed account			
		Create	Cancel	~

If all goes well you should see this:

-	
0	The PerformancePoint Service application was successfully created.
•	The PerformancePoint Service Application, PeformancePoint_ServiceApp, and the associated service proxy were successfully created. The settings for this service can be modified through
•	The service applications in snarePoint Central Administration. The service will use application pool, PerformancePoint_AppPool, to run instances of the servic application, PeformancePoint_ServiceApp.
•	PerformancePoint_AppPool is running under the DOMAIN\Administrator account.
0	Additional configuration steps:
•	To access data sources using shared credentials instead of per-user identity, configure the PerformancePoint Unattended Service Account and/or create Target Applications in the Secure Store using SharePoint Central Administration. The PerformancePoint web application and site collection features must be enabled in order to use the PerformancePoint capabilities. Trusted locations should be configured through manage service applications to prevent use of any site collection or sites, with PPS features enabled, that could allow for unauthorized access to data sources.
4	Connecting to Microsoft SQL Server Analysis Services:
	In order for PerformancePoint to connect to Analysis Services data sources (including PowerPivot workbooks), you may need to install the PowerPivot for SharePoint installation package (2013 or later). This package must be installed on every farm server that runs the PerformancePoint service.
	OK Cancel

1. Next we need to configure the Unattended Service Account – its not absolutely necessary but a good idea to get done now. It all depends on how you plan to access your data sources –

Unattended gives you the highest level of caching in PPS and the data source. So go back Manage Service Applications in Central Admin, and click on the newly provisioned service:

SharePoint					
BROWSE SERV	ICE APPLICATIONS				
New Connect Create	Delete Manage Adr Opera	inistrators Properties	Publish Permissions Sharing		
Central Adminis	stration	Name			
Application Management		Application Discovery and Load Balancer Service Application Application Discovery and Load Balancer Service Application Proxy_0b1c2295-5de			
System Settings		ExcelServices_ServiceApp			
Monitoring Backup and Restore Security Upgrade and Migration General Application Settings Apps Configuration Wizards		ExcelServices_ServiceApp			
		PeformancePoint_ServiceApp			
		PeformancePoint_ServiceApp			
		PowerPivot_ServiceApp			
		PowerPivot_ServiceApp			
		Secure Store Service			
		Secure Store Proxy			
		Security Token Service Application			
		SSRS_ServiceApp SSRS_ServiceApp			
		WSS_UsageAppli WSS_Usage	cation Application		

Once there, you need to change the app settings:

SharePoint	
Central Administration Application Management System Settings Monitoring Backup and Restore Security Upgrade and Migration General Application Settings Anns	Manage PerformancePoint Services: Peform PerformancePoint Service Application Settings Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Trusted Data Source Locations Define SharePoint locations to store data sources. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, filter behavior, and query time-out. Configure settings such as cache durations, the setting settings and scorecards.
Configuration Wizards	

1. We only need to set the account, the other settings on the page can be left at their defaults

s 🔉	PerformancePoint Service Application Settings				
Central Administration					
Application Management	Secure Store and Unattended Service		OK	Canoel	
System Settings					
Monitoring		Secure Store Service Application:			
Backup and Restore	Configure the Secure Store Service which is	Secure Store Proxy			
Security	used to store the Unattended Senice Account used for authenticating with data	Unattended Service Account:			
Upgrade and Migration	sources.	User Name: (Domarr)(Username)			
General Application Settings		Pasoword:	4V [3		
Apps		United for the test Trend Application If:		*	
Configuration Wizards		O unacembro service account target application to:			

1. Its worth noting that there is a new option available in SharePoint 2013 for PPS which is to use the EffectiveUserName property in the connection string to SSAS:

Analysis Services EffectiveUserName The Analysis Services EffectiveUserName capability is an alternative to Windows delegation for allowing individual users to securely access Analysis Services data.

Use the EffectiveUserName connection string property instead of Windows delegation.

This setting applies to all Analysis Services data sources configured for per-user authentication. When this setting is enabled, all connections to Analysis Services data for individual users will be made using the EffectiveUserName connection string property instead of Windows delegation.

Using EffectiveUserName requires that the PerformancePoint Services managed account is an administrator in Analysis Services. EffectiveUserName is not supported for http(s) or PowerPivot.

Client Tools

Since we haven't used the Business Intelligence Centre site template there will be no shortcut button to get to Dashboard designer. This can be reached via the following URL, which you can add to the site menu, a page or <u>even customise via Sharepoint Designer</u>

(http://www.sharepointoscar.com/blog/2011/10/25/adding-performancepoint-dashboard-designer-shortcut-to-a-page/):

http://<siteURL (http://<siteURL) >/_layouts/ppswebparts/designerredirect.aspx

Just a few things left now to make this complete. You will need to install:

- 1. Excel 2013 to demonstrate the now built PowerPivot and Power View
- 2. Excel 2010 and then the items below (I have not found any addins compatible with Excel 2013 yet!)
 - 1. Data Mining Addins
 - 2. Master Data Services Addin
- 3. Visio 2013
- 4. PowerPoint 2013 (to show export capability from Power View)

Samples

Now install the <u>SQL Server samples (http://msftdbprodsamples.codeplex.com/releases/view/55330)</u> if you need some data to play around with.

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This entry was posted on Saturday, December 8th, 2012 at 5:37 AM and is filed under <u>PerformancePoint</u>, <u>Power View</u>, <u>SharePoint 2013</u>, <u>SQL 2012</u>. You can follow any responses to this entry through the <u>RSS 2.0</u> feed. You can <u>leave a response</u>, or <u>trackback</u> from your own site.

One Response to Setting Up a SharePoint 2013 BI Demo VM

<u>Brad Saide</u> says: <u>March 19, 2013 at 9:44 AM</u> The tools for 2013 were released on the 9th of January and can all be found here... <u>http://www.microsoft.com/en-au/download/details.aspx?id=35580</u>

<u>Reply</u>

Theme: <u>Contempt</u> by <u>Vault9</u>. <u>Blog at WordPress.com</u>.