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Agenda

- SharePoint 2013 as a BI Platform
 - High Availability and Scalability
- Reporting Services in SharePoint-Integrated Mode
- Excel Services
- PowerPivot
- PowerView





In the middle of every difficulty lies opportunity.

- Albert Einstein -

Architecture Diagrams



http://portal.testdomain.com*



Web, Application and Database Server

recommended only for

development environment

but ended up being so popular

that it has now become a

mission-critical production server

*Alternate access mappings (AAM) configured

Basic 2-Tier Architecture

http://portal.testdomain.com*



Web and Application Server



Database Server



Basic 2-Tier Architecture

http://portal.testdomain.com

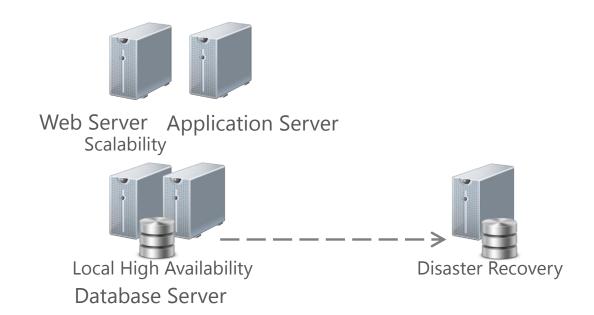


Web and Application Server





http://portal.testdomain.com







Application Servers

Reporting Services **Analysis Services** PowerPivot (SSAS) PerformancePoint Services **Business Connectivity Services**

Web Servers

Web Server Central Admin Search Service Reporting Services Add-In User Profile Service User Profile Synch Service **Excel Services**

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Web Server Application Server Scalability & High Availability



Web and Application Server Disaster Recovery



Local High Availability

Database Server

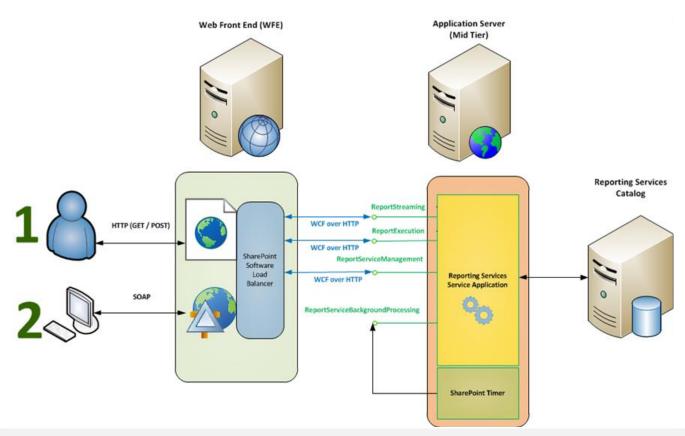


Disaster Recovery

Reporting Services

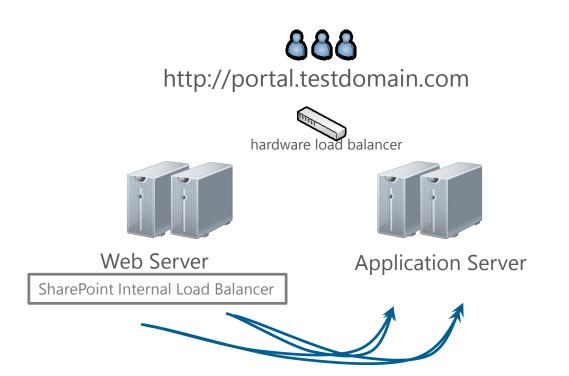
Overview and Architecture
SharePoint integration
Load-balancing and Security
Configure Reporting Services in SharePoint-integrated
Mode

architecture



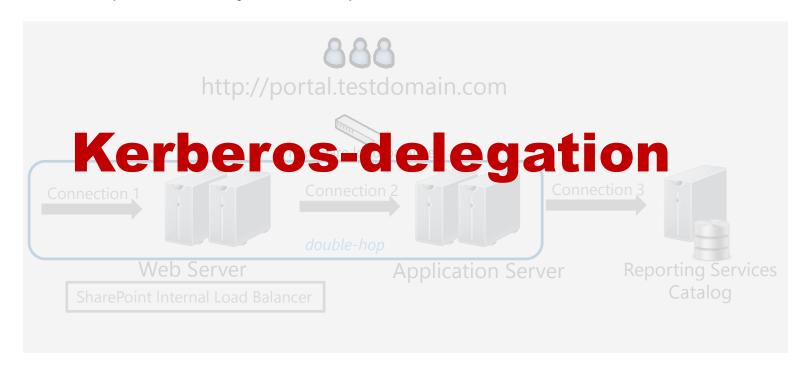
load balancing

*each web front end server can balance the load requests to any of the Reporting Services instance



security

In the past, security was complicated

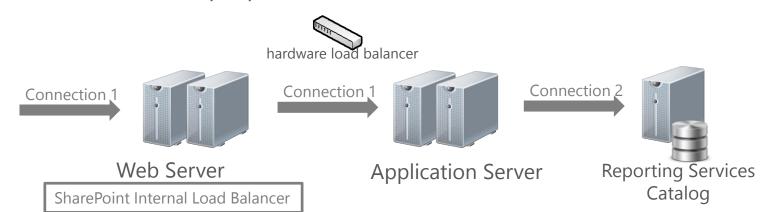


security

Reporting Services is now part of SharePoint



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Configure Reporting Services in SharePoint-integrated Mode

Demo

	SQL Server 2014 Setup	
Feature Selection Select the Enterprise features to Product Key License Terms Global Rules Microsoft Update Install Setup Files Install Rules Setup Role Feature Selection Feature Rules Reporting Services Configuration		Prerequisites for selected features: Already installed:
Feature Configuration Rules Ready to Install Installation Progress Complete		Drive C: 1203 MB required, 7207 MB available Microsoft SQL Server\ Microsoft SQL Server\
		(x86)\Microsoft SQL Server\

SQL Server 2014 Setup

Reporting Services Configuration

Specify the Reporting Services configuration mode.

Product Key License Terms

Global Rules

Setup Role Feature Selection

Feature Rules

Ready to Install

Installation Progress

Reporting Services Configura...

Feature Configuration Rules

Microsoft Update

Install Setup Files Install Rules

Reporting Services Native Mode

Install and configure.

Installs and configures the report server in native mode. The report server is operational after setup completes.

to configure the report server for native mode.

Reporting Services SharePoint Integrated Mode

Install only.

click Help.

Installs the report server files. After installation use SharePoint Central Administration to

Installs the report server files. After installation, use Reporting Services Configuration Manager

complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information,

Complete

< Back

Next >

Cancel

Help



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Microsoft SQL Server 2014 RS Add-in for SharePoint



Welcome to the Installation Wizard for SQL Server 2014 RS Add-in for SharePoint



Setup helps you install, modify or remove SQL Server 2014 RS Add-in for SharePoint . To continue, click Next.

WARNING: This program is protected by copyright law and international treaties.

#Define parameters
\$appPoolName = "Reporting Services App Pool" #SSRS application pool name
\$appPoolAccount = "TESTDOMAIN\spapp" #SSRS application pool account
\$serviceAppName = "Reporting Services" #SSRS service application name
\$serviceProxyAppName = "Reporting Services" #SSRS service application proxy
\$serviceAppDB = "ReportingServiceDB" #SSRS database name
\$DBserver = "SP2013-DB" #SQL Server instance name

#Create a new service application pool
New-SPServiceApplicationPool -Name \$appPoolName -Account \$appPoolAccount

#Retrieve newly created service application pool \$appPool = Get-SPServiceApplicationPool \$appPoolName

#Create a new service application and assign it to a variable \$serviceApp = New-SPRSServiceApplication \$serviceAppName -ApplicationPool \$appPool -DatabaseName \$serviceAppDB -DatabaseServer \$DBserver

#Create new service application proxy for the newly created service application

\$serviceAppProxy = New-SPRSServiceApplicationProxy -Name
\$serviceProxyAppName -ServiceApplication \$serviceApp

#Any web application that uses the default proxy group will now be

SPServiceApplicationProxyGroupMember -Member \$serviceAppProxy

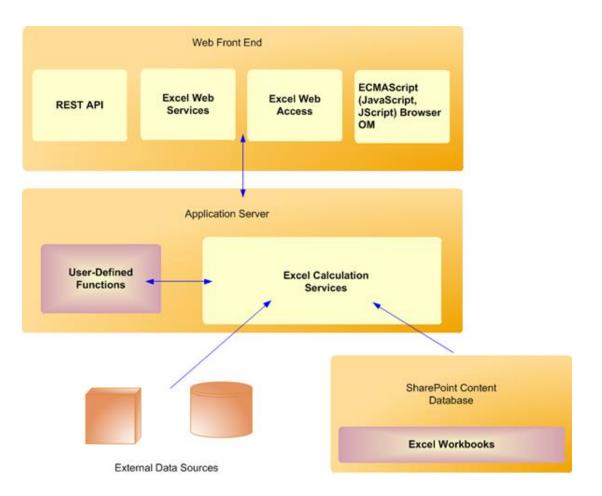
#Add service application proxy to default proxy group.

Get-SPServiceApplicationProxyGroup -default | Add-

#able to use this service application.

Excel Services

Overview and Architecture Configuring Excel Services



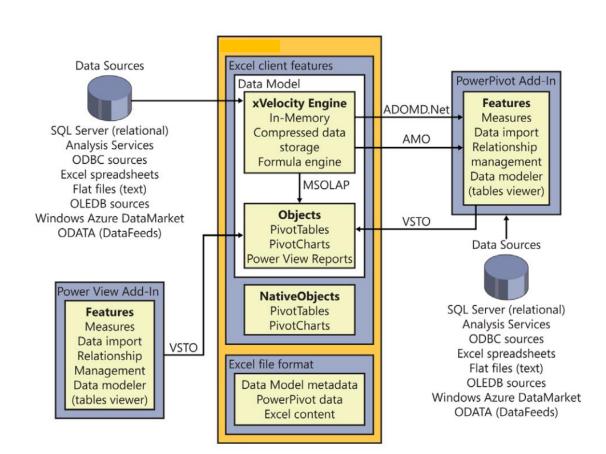
Configuring Excel Services

Demo

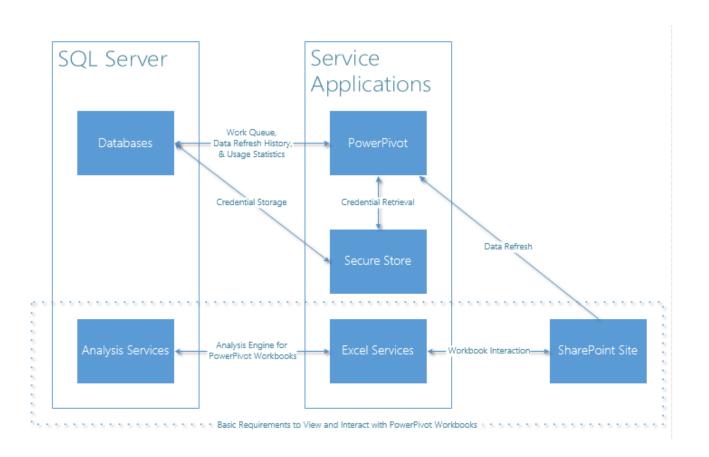
Power Pivot

Overview and Architecture Configuring Power Pivot

Inside Excel 2013



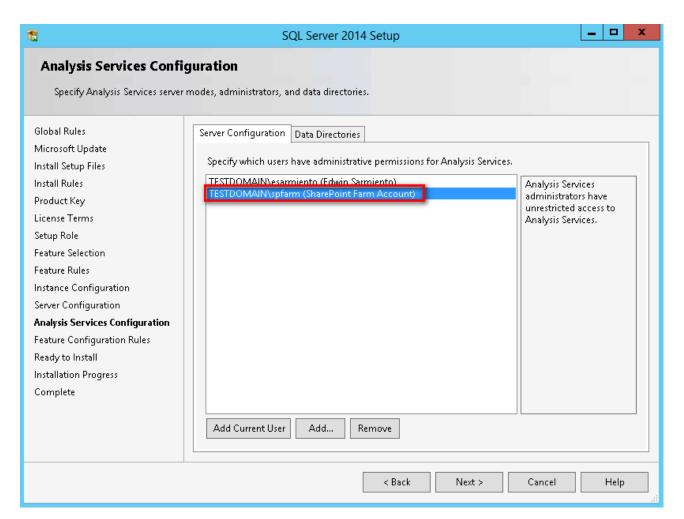
Inside SharePoint 2013



Installing and Configuring Power Pivot for SharePoint

5	SQL Server 2014 Setup
Setup Role	
Click the SQL Server Feature In feature role to install a specific	istallation option to individually select which feature components to install, or click a configuration.
Global Rules Microsoft Update Install Setup Files Install Rules Product Key License Terms Setup Role Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	 SQL Server Feature Installation Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Servand other features. SQL Server PowerPivot for SharePoint Install PowerPivot for SharePoint on a new or existing SharePoint server to support PowerPivot datacess in the farm. Optionally, add the SQL Server relational database engine to use as the new fadatabase 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.

Specify the name and instan	ce ID for the instance of SC	¿L Server, Instance	: ID becomes part of 1	the installation path.	
Global Rules	O Default instance				
Microsoft Update	Named instance:	POWERPIV	/OT		
Install Setup Files	O Harried Installet	I O WEIGH			
Install Rules					
Product Key	Instance ID:	POWERPIV	OT		
License Terms					
Setup Role					
Setup Role Feature Selection	Analysis Services direc	tory: C:\Progran	n Files\Microsoft SQL	Server\MSAS12.POWI	ERPIVOT
•	Analysis Services direc	tory: C:\Progran	n Files\Microsoft SQL	Server\MSAS12.POWI	ERPIVOT
Feature Selection	Installed instances:	, ,			
Feature Selection Feature Rules	Installed instances:	tory: C:\Progran	Features	Server\MSAS12.POWI	Version
Feature Selection Feature Rules Instance Configuration	Installed instances:	, ,			
Feature Selection Feature Rules Instance Configuration Server Configuration	Installed instances:	, ,	Features		Version
Feature Selection Feature Rules Instance Configuration Server Configuration Analysis Services Configuration	Installed instances:	, ,	Features		Version
Feature Selection Feature Rules Instance Configuration Server Configuration Analysis Services Configuration Feature Configuration Rules	Installed instances:	, ,	Features		Version
Feature Selection Feature Rules Instance Configuration Server Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install	Installed instances:	, ,	Features		Version
Feature Selection Feature Rules Instance Configuration Server Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress	Installed instances:	, ,	Features		Version





2014 PowerPivot for SharePoint 2013

Setup helps you install, modify or remove SQL Server 2014 PowerPivot for SharePoint 2013 . To continue, click Next.

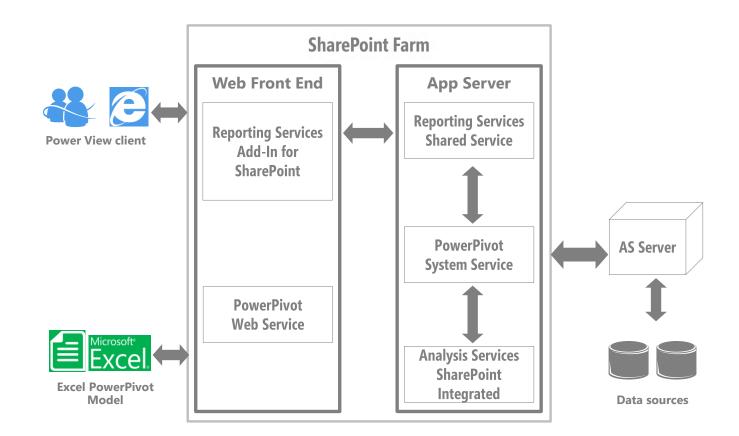
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Next > Cancel

Power View

Overview and Architecture
Activating Power View in a SharePoint site collection



Activating Power View in a SharePoint site collection

Summary

- SharePoint 2013 as a BI Platform
 - High Availability and Scalability
- Reporting Services in SharePoint-Integrated Mode
- Excel Services
- PowerPivot
- PowerView

Action Items

Plan SharePoint 2013 BI Farm Server Topology and Roles Read the following

Microsoft BI Authentication and Identity Delegation

http://bit.ly/1pcaRA4

Supported Combinations of SharePoint and Reporting Services Server and Add-in (SQL Server 2014)

http://bit.ly/WOKKYS

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Q & A