Team Foundation Server 2012 Installation Guide



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Lab 01: Install Pre-requisites for SQL Server 2008 R2 and TFS2012

This chapter will walk you through the process of installing the pre-requisites for SQL Server 2008 R2 and Team Foundation Server 2012. You'll be installing these pre-requisites via the **Server Manager** in Windows Server 2008 R2.

- In Windows, click the **Start** button
- In the search box, type **Server Manager**
- In the search results, run Server Manager

🚡 Server Manager		
File Action View Help		k
🏟 🖄 📰 🛛		
Server Manager (WIN08R2-TFS2	Roles	
■ Roles ■ m Features m ■ m Diagnostics m ■ m Configuration m	View the health of the roles features.	installed on your server and add or remove roles and
🕀 🔚 Storage	Roles Summary	Roles Summary Help
		Add Roles
and a second of		and the second second second

You should now see the Server Manager screen.

• Click Add Roles

You should now see the Add Roles Wizard.

Add Roles Wizard		×
Before You Begin	1	
Before You Begin Server Roles Confirmation Progress Results	This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site. Before you continue, verify that: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The latest security updates from Windows Update are installed If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again. To continue, click Next. Skip this page by default	
	< Previous Next > Install Cancel]

• Click Next

You should now see the **Select Server Roles** page.

Add Roles Wizard		
Select Server Ro	les	
Before You Begin	Select one or more roles to install on this server.	
Server Roles	Roles:	
Confirmation	Active Directory Certificate Services	
Progress	Active Directory Domain Services	
Results	Active Directory Federation Services	
	Active Directory Lightweight Directory Services	
	Active Directory Pighte Management Services	
	Application Server	
	DNS Server	
	Eile Services	
	Hvper-V	
	Network Policy and Access Services	
	Print and Document Services	
	🗌 Remote Desktop Services	
	Web Server (IIS)	
	Windows Deployment Services	
	Windows Server Update Services	
	More about server roles	
	and the second of the second o	

• Check Application Server

You should see a pop up dialog titled Add Roles Wizard like the image below.

Add Roles	Wizard		x
¢:	Add features required for Application S You cannot install Application Server unless the required features:	Server? atures are also installed. Description:	
	 NET Framework 3.5.1 Features .NET Framework 3.5.1 Windows Process Activation Service Process Model .NET Environment Configuration APIs 	Microsoft .NET Framework 3.5.1 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business proces	
		Add Required Features Cancel	
(i) Why	v are these features required?		//

• Click the Add Required Features button

You should now be back on the roles selection page and Application Server should be checked.



Copyright © 2012 – Benjamin Day Consulting, Inc. – <u>www.benday.com</u> Printing or duplication is prohibited without author's expressed written permission. You now need to check the Web Server (IIS) role.



- Check the checkbox next to Web Server (IIS)
- Click the **Next** button

and the second s	
Application Server	
Before You Begin I Server Roles I Application Server I Role Services I Web Server (IIS) I Role Services I Confirmation I Progress I Results I	Application to Application Server Application Server hosts and centrally manages applications that interoperate with systems on the network such as heterogeneous databases, identity management services, security systems, and Veb applications and services. Application Server also supports developing custom business applications through integrated services such as the .NET Framework 3.5.1, COM+, Web Server (IIS) support, and Message Queuing. Things to Note Installing Application Server installs the .NET Framework 3.5.1 by default. We recommend that you install Web Server (IIS) Support if you plan to host distributed applications built using ASP.NET or Windows Communication Foundation (WCF). Additional Information Overview of Application Server Application Server Role Services Application Server Configurations Previous Next > Install Cancel

• Click Next

You should now be on the **Select Role Services** page.



• Check the checkbox next to Web Server (IIS) Support

When you click **Web Server (IIS) Support**, you'll get a new dialog like the image below.

Add Roles	Wizard		×
¢:	Add role services and features require You cannot install Web Server (IIS) Support unless the require Role Services:	d for Web Server (IIS) Support? ired role services and features are also installed. Description:	
	 Application Server Windows Process Activation Service Support Web Server (IIS) Web Server Management Tools .NET Framework 3.5.1 Features WCF Activation 	management and hosting of high- performance distributed business applications such as those built with Enterprise Services and .NET Framework 3.5.1.	
		Add Required Role Services Cancel	
(i) Why	r are these role services and features required?		///

• Click the Add Required Role Services button

You should be back on the **Select Role Services** page.

Add Roles Wizard Select Role Servi	ices	
Before You Begin Server Roles Application Server Role Services Web Server (IIS) Role Services Confirmation Progress Results	Select the role services to install for Application Server: Description: Role services: Description: Image: NET Framework 3.5.1 Web Server (IIS) Support Image: NET Framework Access TCP Port Sharing Image: Network Access TCP Port Sharing Image: Network Access Activation Service Support ASP.NET application accessed via a as Internet Exp. Image: Message Queuing Activation Services built u Image: Named Pipes Activation Communication (WCF). Image: Incoming Remote Transactions Image: WS-Atomic Transactions Image: WS-Atomic Transactions Image: WS-Atomic Transactions	bom est. siti
	More about role services	

• Click Next

You should now see the **Web Server (IIS)** page.

Add Roles Wizard	×
Web Server (IIS)	
Before You Begin Server Roles Application Server Role Services Web Server (IIS) Role Services Confirmation Progress Results	Introduction to Web Server (IIS) Web servers are computers that have specific software that allows them to accept requests from client computers and return responses to those requests. Web server role includes Internet Information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 7.0, a unified Web platform that integrates IIS 7.0, ASP.NET, and Windows Communication Foundation. IIS 7.0 also features enhanced security, simplified diagnostics, and delegated administration. Image to Note Image to Note Image to Note Image to Note Image to Note Image to Note Note Note Note Note Note Note

• Click Next

You should now be on the Select Role Services page.



- In the list of roles, scroll down until you locate **IIS 6 Management Compatibility**
- Check **IIS 6 Management Compatibility** and all the **child items** as shown in the image above
- Click Next

You should now be on the **Confirm Installation Selections** page.

Add Roles Wizard		×
Confirm Installa	tion Selections	
Before You Begin Server Roles Application Server	To install the following roles, role services, or features, click Install.	
Web Server (IIS) Role Services	This server might need to be restarted after the installation completes. Application Server	
Confirmation Progress Results	Web Server (IIS) Support Windows Process Activation Service Support HTTP Activation Web Server (IIS) Find out more about Windows System Resource Manager (WSRM) and how it can help optimize CPU usage	
	Web Server Common HTTP Features Static Content Default Document Directory Browsing HTTP Errors	•
	Print, e-mail, or save this information	
	< Previous Next > Install Cancel	

• Click the Install button

The installation should now be in progress.

Add Roles Wizard	
Installation Prog	gress
Before You Begin Server Roles	The following roles, role services, or features are being installed: Application Server
Application Server	Web Server (IIS)
Web Server (IIS)	.NET Framework 3.5.1 Features
Role Services	Windows Process Activation Service
Confirmation	
Results	
	- initializing installation
	< Previous Next > Install Cancel

After the installation has completed, you should be on the **Installation Results** page. You should see **Installation succeeded** for the Application Server and Web Server (IIS) roles.



Click Close

Pre-reqs are installed. Done.

Lab 02: Install SQL Server 2008 R2 for TFS2012

This chapter will walk you through the process of installing SQL Server 2008 R2 for TFS2012.

• Insert the SQL Server 2008 R2 disc or mount the appropriate ISO



• Click Run SETUP.EXE

Team Foundation Server 2012 Installation Guide



• Click Yes

You should now see the SQL Server Installation Center screen.



- In the left column, click Installation
- Click New installation or add features to an existing installation

On the **Setup Support Rules** page, you'll see the result of the installer's initial checks for possible installation blocking issues.

📸 SQL Server 2008 R2 Setup		
Setup Support Rules		
Setup Support Rules identify probl corrected before Setup can continu	ems that might occur when you install SQL Server Setup support files. Failure 	
Setup Support Rules	Operation completed. Passed 7. Failed 0. V (arning 0. Skipped 0.	
	Show details >> View detailed report	
and the product of	and present a second and	

- Ensure that Failed says 0
- Click **OK**

You should now be on the Product Key page.

SQL Server 2008 R2 Setup Product Key Specify the edition of SQL Ser	ver 2008 R2 to install.
Product Key License Terms Setup Support Files	Validate this instance of SQL Server 2008 R2 by entering the 25-chara certificate of authenticity or product packaging. You can also specify as Evaluation or Express. Evaluation has the largest set of SQL Server Server Books Online, and is activated with a 180-day expiration. To another, run the Edition Upgrade Wizard.

- Ensure that the correct product key is specified
- Click **Next**

You should now be on the License Terms page.

📸 SQL Server 2008 R2 Setup	
License Terms To install SQL Server 2008 R2	2, you must accept the Microsoft Software License Terms.
Product Key License Terms Setup Support Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2008 R2 STANDARD 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
	 ✓ 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 2008 R2 Privacy Statement for more information. < Back Next > Cancel

- Check I accept the license terms
- (Optional) Check Send feature usage...
- Click Next

🏗 SQL Server 2008 R2 Setup					_ 🗆 🗙
Setup Support Files					
Click Install to install Setup Suppo	ort files. To install or update SQL	Server 2008 R2, these fil	es are required.		
Product Key	The following components a	re required for SQL Serve	r Setup:		
License Terms	Feature Name	Status			
Setup Support Files	Setup Support Files				
			17		1
			< Back	Install	Cancel

• Click Next

After the installation supporting files are installed, you'll see another Setup Support Rules check page.

Setup Support Rules Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue. Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Pervious Counter registry hive consistency Previous CTP installation Previous CTP installation Previous CTP installation Previous CTP installation Passed Operation Controller Passed Operation Controller Passed Computer domain controller Passed Edition WOW64 platform Passed	
Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue. Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Q Performance counter registry hive consistency Passed Q Previous CTP installation Q Previous CTP installation Q Previous CTP installation Q Previous CTP installation Q Consistency validation for SQL Server registry keys Passed Consistency validation for SQL Server registry keys Passed Consistency validation for SQL Server registry keys Passed Microsoft .NET Application Security Warning Etition WOW64 platform Passed	
Setup Support Rules Operation completed. Passed: 9. Failed 0. Warning 2. Skipped 0. Setup Role Feature Selection Installation Rules Hide details <	
Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Performance counter registry hive consistency Passed Previous CTP installation Passed Passed <td< td=""><td></td></td<>	
Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Ø Performance counter registry hive consistency Ø Previous CTP installation Ø Previous CTP installation Ø Consistency validation for SQL Server registry keys Ø Previous CTP installation Ø Consistency validation for SQL Server registry keys Ø Rures Ø Edition WOW64 platform	
Installation Rules Hide details < Disk Space Requirements View detailed report Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Ru Rule Ø Performance counter registry hive consistency Passed Ø Previous CTP installation Passed Ø Previous CTP installation Passed Ø Consistency validation for SQL Server registry keys Passed Ø Consistency validation for SQL Server registry keys Passed Ø Consistency validation for SQL Server registry keys Passed Ø Computer domain controller Passed Ø Microsoft .NET Application Security Warning Ø Edition WOW64 platform Passed	
Disk Space Requirements View detailed report Error Reporting Installation Configuration Rules Ready to Install Installation Progress Fusion Active Template Library (ATL) Passed Complete View detailed report Passed View detailed report Passed Passed Installation Progress Performance counter registry hive consistency Passed Performance counter registry hive consistency Passed Previous releases of SQL Server 2008 Business Intelligence Devel Passed Previous CTP installation Passed Computer domain controller Passed Microsoft .NET Application Security Warning Edition WOW64 platform Passed	Re-run
Error Reporting Installation Configuration Rules Ru Rule Status Ready to Install Installation Progress Fusion Active Template Library (ATL) Passed Complete Insupported SQL Server products Passed Image: Performance counter registry hive consistency Passed Image: Performance counter registry hive consistency	
Installation Configuration Rules Ru Rule Status Ready to Install Installation Progress Fusion Active Template Library (ATL) Passed Complete Unsupported SQL Server products Passed Performance counter registry hive consistency Passed Previous releases of SQL Server 2008 Business Intelligence Devel Passed Previous CTP installation Passed Computer domain controller Passed Computer domain controller Passed Microsoft .NET Application Security Warning Edition WOW64 platform Passed	
Ready to Install Fusion Active Template Library (ATL) Passed Installation Progress Installation Progress Unsupported SQL Server products Passed Complete Performance counter registry hive consistency Passed Previous releases of SQL Server 2008 Business Intelligence Devel Passed Previous CTP installation Passed Previous CTP installation Passed Computer domain controller Passed Nicrosoft .NET Application Security Warning Edition WOW64 platform Passed	
Installation Progress Vinsupported SQL Server products Passed Complete Performance counter registry hive consistency Passed Previous releases of SQL Server 2008 Business Intelligence Devel Passed Previous CTP installation Passed Previous CTP installation for SQL Server registry keys Passed Computer domain controller Passed Microsoft .NET Application Security Warning Edition WOW64 platform Passed	
Complete Image: Performance counter registry hive consistency Passed Image: Performance counter registry hive consistency Passed Passed	
Previous releases of SQL Server 2008 Business Intelligence Devel Passed Previous CTP installation Passed Consistency validation for SQL Server registry keys Passed Computer domain controller Passed Microsoft .NET Application Security Warning Edition WOW64 platform Passed	
Image: Previous CTP installation Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Computer domain controller Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed Image: Previous CTP installation for SQL Server registry keys Passed	
Image: Consistency validation for SQL Server registry keys Passed Image: Computer domain controller Passed	
Image: Computer domain controller Passed Image: Computer domain controller Microsoft .NET Application Security Warning Image: Computer domain controller Edition WOW64 platform Passed	
Microsoft .NET Application Security Warning Image: Constraint of the security Edition WOW64 platform Image: Constraint of the security Passed	
Edition WOW64 platform Passed	
Windows PowerShell Passed	
Windows Firewall Warning	
< Back Next > Cancel	Help

- Verify that Failed is 0
- Click Next

You should now be on the **Setup Role** page.

📸 SQL Server 2008 R2 Setup	
Setup Role	
Click the SQL Server Feature Instal feature role to install a specific cor	lation option to individually select which feature components to install, or click a figuration.
Setup Support Rules	© SQL Server Feature Installation
Setup Role	Install SQL Server Database Engine services, Analysis Services, Reporting Services, Integration
Feature Selection	Services, and other features.
Installation Rules	C All Features With Defaults
Disk Space Requirements	Install all features using default values for the service accounts.
Error Reporting	
Installation Configuration Rules	· · · · · · · · · · · · · · · · · · ·
Ready to Install	(
Installation Propress	and and a second s

- Choose SQL Server Feature Installation
- Click Next

You should now be on the Feature Selection page.

Features:			
Instance Features			-
✓ Database	ngine Services		
SQL Se	rver Replication		
Full-Te	ext Search		
🗸 Analysis S	ervices		
Reporting	Services		
Shared Features			E
Business In	ntelligence Deve	lopment Studio	
Client Too	ls Connectivity		
Integration	n Services		
Client Too	ls Backwards Co	ompatibility	
Client Too	ls SDK		
SQL Serve	Books Online		_
Managem	ent Tools - Basic	2	
Manag	jement Tools - C	Complete	
SOL Client	Connectivity SE	ОК	
Select All	Unselect All		?
eat the dir	sgt ve		licerant

- Check the following items:
 - o Database Engine Services
 - Full-Text Search
 - Analysis Services
 - Reporting Services
 - Management Tools Basic
 - Management Tools Complete
- Click Next

You should now be on the **Instance Configuration** page.

📸 SQL Server 2008 R2 Setup		
Instance Configuration		1
Specify the name and instance ID	for the instance of SQL Server.	Instance ID becomes part of the installation p
Setup Support Rules	Oefault instance	
Setup Role	Named instance:	
Feature Selection		
Installation Rules		
Instance Configuration	Instance ID:	MSSQLSERVER
Disk Space Requirements		
Server Configuration	Instance root directory:	C:\Program Files\Microsoft SQL Server\
Databa Engine Configuration	Jan Jan Jan	- and the and

- Choose **Default instance**
- Click **Next**

You should be on the **Disk Space Requirements** page.

📸 SQL Server 2008 R2 Setup	
Disk Space Requirements	
Review the disk space summary for	the SQL Server features you selected.
Setup Support Rules	Disk Usage Summary:
Setup Role	Drive C: 4366 MB required, 114130 MB available
Feature Selection	System Drive (C:\): 2034 MB required
Installation Rules	Shared Install Directory (C:\Program Files\Microsoft SQL Se
Instance Configuration	Instance Directory (C:\Program Files\Microsoft SQL Server)
Disk Space Requirements	
A second	and the second of the second o

• Click Next

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Service	Account Name	Password	Startup Type
SQL Server Agent	NT AUTHORITY\NETW		Automatic 💌
SQL Server Database Engine	NT AUTHORITY\NETW		Automatic 💌
SQL Server Analysis Services	NT AUTHORITY\NETW		Automatic 💌
SQL Server Reporting Services	NT AUTHORITY\NETW		Automatic 💌
SQL Full-text Filter Daemon Laun	NT AUTHORITY\LOCA		Manual
SQL Server Browser	NT AUTHORITY\LOCA		Automatic <
	Use the same	account for all	SQL Server services

• Click Use the same account for all SQL Server services

Use the same account for all SQL Server 2008 R2 services	
Specify a user name and password for all SQL Server service accounts.	
Account Name: NT AUTHORITY\NETWORK SERVICE	Browse
Password:	
	OK Cancel

- From the Account Name drop-down list, choose NT AUTHORITY\NETWORK SERVICE
- Click **OK**

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Service	Account Name	Password	Startup Type
SQL Server Agent	NT AUTHORITY\NETW		Automatic 🗨
SQL Server Database Engine	NT AUTHORITY\NETW		Automatic 💌
SQL Server Analysis Services	NT AUTHORITY\NETW		Automatic 💌
SQL Server Reporting Services	NT AUTHORITY\NETW		Automatic 💌
SQL Full-text Filter Daemon Laun	NT AUTHORITY\LOCA		Manual
SQL Server Browser	NT AUTHORITY\LOCA		Automatic 💌
	Use the same	account for al	SQL Server services

- Set the **Startup Type** column value to **Automatic** for all available services
- Click **Next**

You should now see the **Database Engine Configuration** page.

髋 SQL Server 2008 R2 Setup	
Database Engine Configu	uration
Specify Database Engine authentic	ation security mode, 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 Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode Windows authentication mode Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Confirm password: Specify SQL Server administrators BENDAY\benday (Benjamin Day) SQL Server administrators have unrestricted access to the Database Engine. Add Current User Add
	< Back Next > Cancel Help

- Click Add Current User
- Click Next

You should now be on the **Analysis Services Configuration** page.

髋 SQL Server 2008 R2 Setup		_ _ _ _
Analysis Services Configu	ration	
Specify Analysis Services administra	tors 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 Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories Specify which users have administrative permissions for Analysis Services. BENDAY\benday (Benjamin Day) Add Current User	Analysis Services administrators have unrestricted access to Analysis Services.
	< Back Next >	Cancel Help

- Click Add Current User
- Click **Next**

Specify the Reporting Services configuration mode.

 SQL Server 2008 R2 Setup

 Reporting Services Configuration

Install the native mode default configuration.

C Install, but do not configure the report server.

report server is usable as soon as Setup is finished.

C Install the SharePoint integrated mode default configuration.

Setup will install the report server and configure it in Native mode to use

Setup will create the report server database in SharePoint integrated mode, report server to use the default values. However, integrated operations will

a minimal installation of a SharePoint product or technology is deployed g

computer and the Reporting Services Add-in for SharePoint Technologies

configured on the instance of the SharePoint product or technology you

Setup will install, but will not configure, the report server software. After ing

can use the Reporting Services Configuration tool to set options that are

You should now be on the Reporting Services Configuration page.

Choose Install the native mode default configuration

server.

• Click **Next**

Setup Support Rules

Installation Rules Instance Configuration

Error Reporting

Ready to Install

Complete

Installation Progress

Disk Space Requirements Server Configuration

Database Engine Configuration

Analysis Services Configuration

Installation Configuration Rules

Reporting Services Configuration

Setup Role Feature Selection You should now be on the Error Reporting page.

髋 SQL Server 2008 R2 Setup	
Error Reporting	
Help Microsoft improve SQL Serve	r features and services.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2008 R2 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< Back Next > Cancel Help

- (Optional) Check Send Windows and SQL Server Error Reports...
- Click **Next**

The installer will run another rules check on the **Installation Configuration Rules** page.

📸 SQL Server 2008 R2 Setup	
Installation Configuration	n Rules
Setup is running rules to determine	e if the installation process will be blocked. For more information, click Help.
Setup Support Rules	Operation completed. Passed: 6 Failed 0. Varning 0. Skipped 2.
Setup Role	
Feature Selection	
Installation Rules	Show details >>
Instance Configuration	View detailed report
Disk Space Requirements	
Server Configuration	and a second demand

- Verify that Failed is 0
- Click Next

髋 SQL Server 2008 R2 Setup	
Ready to Install Verify the SQL Server 2008 R2 feat	ures to be installed.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Ready to install SQL Server 2008 R2:
	< Back Install Cancel Help

• Click Install

The installation should now be in progress.

📸 SQL Server 2008 R2 Setup	
Installation Progress	
Setup Support Rules	
Setup Role	
Feature Selection	Install_OWC11_Cpu32_Action
Installation Rules	
Instance Configuration	
Disk Space Requirements	
Server Configuration	· · · · · · · · · · · · · · · · · · ·
Database Engine Configuration	2
Analysis Services Configuration	
Reporting Services Configuration	
Error Reporting	and and and a second second second

The installation should now be completed.

🐮 SQL Server 2008 R2 Setup	
Complete Your SQL Server 2008 R2 installati	on completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20121008 182037. \Summary Win08r2-Tfs2012 20121008 182037.txt Information about the Setup operation or possible next steps: Your SQL Server 2008 R2 installation completed successfully. Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see to the following notes of the to the
	Samples

• Click Close

Now that SQL Server 2008 R2 is installed, you should install the latest service pack and any updates that are available from Windows Update.
Lab 03: Install Team Foundation Server 2012

This chapter will guide you through the process of installing Team Foundation Server 2012.

- Insert your TFS2012 disc or mount the appropriate ISO
- Open explorer.exe (aka. Windows Explorer)
- Navigate to your DVD drive

You should now be looking at an Explorer window that looks like the image below.

DVD Drive (D:) VS2012_TFS_MSDN_ENU			
Compute	r 🔻 DVD Drive (D:) VS2012_TFS_MSDN_ENU 👻		
Organize 🔻 Share with	•		
★ Favorites	Name 🔺	Date mos	
Recently Change	퉬 packages	7/27/2012	
Public	🌗 Project Server Extensions	7/27/2012	
Nesktop	🐌 Remote SharePoint Extensions	7/27/2012 🎽	
🗼 Downloads	🌗 Team Explorer	7/27/2012	
🖳 Recent Places	🕘 Team Explorer License.htm	7/26/2012 2	
	Team Foundation Server License.htm	7/26/2012 2	
Cibraries	tfs_server.exe	7/27/2012	
Documents	B Iroinstail.cnm	7/6/2012	
Music Distance	Third Party Notices.txt	7/26/2012	
Videos			
Videos			
ocal Disk (C)		-	

• Double-click **tfs_server.exe**

You should now see the **Team Foundation Server Setup** welcome screen.



- Check I accept the license terms for Team Foundation Server
- Click Install Now

You will probably be prompted with a User Account Control dialog.

Team Foundat	ion Server Setup /isual Studio	
😌 User Account	Control	×
Do you comput	want to allow the following program to make changes to this er?	
М	Program name:tfs_server.exeVerified publisher:Microsoft CorporationFile origin:Hard drive on this computer	
Show de	tails Yes No	□
	Change when these notifications ap	pear
and the second	فالمتحي فالمتحاد والمرور والمتصحيح	an gan d

• Click **Yes**

The installer should now be running.



After the installer finishes, you'll see the **Team Foundation Server Configuration Center**.

Team Foundation Server Configuration Center	
Configuration Center	
Configure Team Foundation Application Server Parie Standard Single Server Advanced Application-Tier Only Upgrade Configure Team Foundation Server Proxy Configure Team Foundation Build Service Configure Extensions for SharePoint Products	About this Wizard Use the Standard wizar default options. This wi Supported on Windows You might want to use true: • You want to deploy • You want Windows Shi
Additional Tools and Components Visual SourceSafe Upgrade PreEmptive Analytics Community Edition	You want to use the s You do not want to use true:

- Click Standard Single Server
- Click Start Wizard

You should now see the **Standard Configuration Wizard**.

Team Foundation Server Standard Configuration				
Standard Configuration Wizard				
Welcome Service Account A Installation A Review Readiness Checks Configure Complete	 Welcome to the Standard Configuration Wizard Before continuing with configuration, please review a list of important changes since the product was released. Click here You have installed new Team Foundation Server components and need to configure them for operation. This wizard configures your Team Foundation Server environment using the default settings. Help Improve Setup You can submit information about your Team Foundation Server configuration and administration experiences to Microsoft. To participate, click the box below. Yes, send information about my setup and administration experiences to Microsoft Corporation. For more information, click Privacy Statement. 			
Team Foundation Se	erver 2012 Previous Next Review Cancel			

• Click Next

You should now be on the **Service Account** screen where you are prompted for a username and password for the integration from TFS to Reporting Services and SharePoint.

Team Foundation Server Standar	d Configuration	×
눩 Standard Co	onfiguration Wizard	
Welcome Service Account Installation ① Review Readiness Checks Configure Complete	Provide a Service Account to Use for SharePoint Products and SQL Server Reporting Services This wizard will use the default system account Network Service for the services used by Team Foundation Server. A separate, non-system account is required for use as the service account for SharePoint Products and the read-access report reader account that is used for accessing SQL Server Reporting Services reports. Provide a valid user account and password below. Account Name: benday\tfsreports Password:	
	and a second and the second and the	~

- In the **Account Name** box, enter the username you want to use. (You'll probably want to use the TFSReports username.)
- In the **Password** box, enter the password for the user
- Click the **Test** button to verify the username and password
- Click Next

You should now see the **Install SharePoint on this machine** page of the installer. Unless you have 10GB of RAM on your server, you're going to get a TF400080 warning in the validation results. In my opinion, you can safely ignore this if you don't mind SharePoint being a little slow.

Team Foundation Server Standard Configuration				
뒑 Standard Configuration Wizard				
Welcome Service Account Installation A Review Readiness Checks Configure Complete	Install SharePoint on this machine Readiness checks passed but there are some warnings or messages. Carefully review the following messages, and then click Install SharePoint when you are ready to begin installation of SharePoint. Install SharePoint Foundation 2010 Re-run Checks			
	Detailed Results: Open Log ▲ TF400080: Your system does not have the recommended amount of system memory available: 10 GB. While SharePoint 2010 with Team Foundation Server can operate with less than this amount of memory, the performance will be degraded. Upgrade your system memory to at least the recommended minimum for optimal performance. (i) TF255142: Windows Firewall is not enabled. If you enable Windows Firewall after configuring Team Foundation Server, you must add exceptions for ports used by Team Foundation Server to			
Team Foundation S	Windows Firewall. erver 2012 Previous Next Review Cancel			

Click Install SharePoint Foundation 2010

The installer for SharePoint should now be running.

Team Foundation Server Standard Configuration				
🚮 Standard Co	nfiguration Wizard			
Welcome Service Account Installation 🛕	Install SharePoint on this machine Running the Microsoft SharePoint Founda	tion 2010 Installer, which	may take a while	<u> </u>
Review Readiness Checks Configure Complete	Install Shar	ePoint Foundation 2010]	
	 Extract SharePoint Installer Install SharePoint Prerequisites Install SharePoint Register ASP.NET Clean Up 		Complete Complete In Progress Not Started Not Started	
Team Foundation S	erver 2012	Previous Nex	t Review	Cancel

The installation of SharePoint should eventually complete.

Team Foundation Server Standard Configuration				
🚮 Standard Configuration Wizard				
Welcome Service Account Installation	Install SharePoint on this machine SharePoint was installed successfully. Click next to continue configuring TFS.			
Service Account Installation SharePoint was installed successfully. Click next to continue configuring TFS. Review Readiness Checks Configure Complete Install SharePoint Foundation 2010				
Team Foundation Se	erver 2012 Previous Next Review Cancel			

- Verify that the message says **Sharepoing was installed successfully**
- Click Next

You should now be on the **Confirm the Configuration Settings Before Proceeding** page.

Team Foundation Server Standar	d Configuration		×
🚮 Standard C	onfiguration Wizard		
Welcome Service Account Installation	Confirm the Configuration Settings Before Proceeding Review each of the selected configuration settings and click next to begin readiness checks.		
Review Readiness Checks Configure Complete	Feedback Send Feedback	True	
	Application Tier Service Account Authentication Method Configure IIS Site URL Port	NT Authority\NetworkService NTLM True http://Win08r2-Tfs2012:8080/tfs 8080	
	Host name Virtual Directory Web Access URL SMTP Enable Email	Win08r2-1fs2012 tfs http://Win08r2-Tfs2012:8080/tfs False	
	Configuration Database SQL Instance Use Existing Database	Win08r2-Tfs2012 False	•
Team Foundation Server 2012 Previous Verify Cancel			

• Click Next

The installer will now run a series of checks on your system to verify whether the configuration is valid. Once again, you may receive the TF400080 warning about SharePoint 2010 and less than 10GB of memory. This can be safely ignored.

Team Foundation Server Standa	rd Configuration	×
🚮 Standard C	onfiguration Wizard	
Welcome Service Account Installation	Readiness Checks Validate that Your Syst Readiness checks passed with warnings.	▲ tem is Ready to Configure
Review	System Verifications	Darred
Configure	System Venications Data Tier	Passed
Complete	 Application Tier Reporting 	Passed Passed
	A SharePoint Integration	Warning
	Project Collection	Passed
	Click here to rerun Readiness Checks.	
	Detailed Results:	<u>Open Log</u>
	TF400080: Your system does not have the rec 10 GB. While SharePoint 2010 with Team Fou amount of memory, the performance will be least the recommended minimum for optima	commended amount of system memory available: ndation Server can operate with less than this degraded. Upgrade your system memory to at al performance.
	One or more features that Team Foundation Information Services (IIS). If you continue, the of the features to be configured.	Services requires are not configured in Internet ey will be configured for you. The log contains a list
	Enabling legacy trace logging for SharePoint. legacy trace logging will be returned to its or	. Upon completion of installation or upgrade,
Team Foundation	Server 2012 Previo	us Next Configure Cancel

• Click the **Configure** button

The installer should now be configuring TFS.

Team Foundation Server Standard	d Configuration	
🛐 Standard Co	onfiguration Wizard	
Welcome Service Account Installation	Configuration Progress Configuring SharePoint application entries	
Review Readiness Checks Configure Complete	 Preparing Configuration Configure IIS Configure SharePoint Configuration Database Creating Web Sites Reporting Configuring Services Project Collection 	Complete Complete Complete Complete Complete In Progress Not Started

The configuration should complete with the message of **Success**.

Team Foundation Server Standard Configuration				
🌆 Standard Cor	figuration Wizard			
Welcome Service Account Installation	Configuration Progress			
Review Readiness Checks Configure Complete	 Preparing Configuration Configure IIS Configure SharePoint Configuration Database Creating Web Sites Reporting Configuring Services Project Collection Success Configuration completed success	fully. Click Next to view deta	Complete Complete Complete Complete Complete Complete Complete	
Team Foundation Se	rver 2012	Previous Next	Finish Close	

• Click Next

You should now be on a configuration summary page which should also report **Success**.

Team Foundation Server Standard Configuration		
🛐 Standard Cor	nfiguration Wizard	
Welcome Service Account Installation Review Readiness Checks Configure Complete	 Review the Results Success Tor term Foundation Server configuration completed successfully. Connection Details Team Foundation Server : http://win08r2-tfs2012.8080/tfs Cotable Results I forwall exception added for port 8080 A spart of TFS configuration IS dynamic compression was enabled to improve performance. This is system-wide setting for IS. See this link for additional details http://go.microsoft.com/fwlink/? Linkld=219608 The time allowed for Windows services to start was increased from 30 seconds to 600 seconds. This affects all Windows services on this server. (The registry value set is HKLM/SYSTEM // CurrentControlSet/Control/ServicesPipeTimeout.) Firewall exception added for port 17012 Firewall exception added for port 808 Click here to open a complete log 	
Team Foundation Se	erver 2012 Previous Next Finish Close	

• Click Close

You should now be back at the main landing page of the **Team Foundation Server Configuration Center**.

ing ream roundation server conliguration center	
Configuration Center	
 Configure Team Foundation Application Server Basic Standard Single Server Advanced Application-Tier Only Upgrade Configure Team Foundation Server Proxy Configure Team Foundation Build Service Configure Extensions for SharePoint Products Additional Tools and Components Visual SourceSafe Upgrade PreEmptive Analytics Community Edition 	 About this Wizard Use the Standard wizard to install Team Foundation Server on a single server with the default options. This wizard is suitable for most single-server deployments. Supported on Windows Server operating systems only You might want to use this wizard if one or more of the following statements are true. You want to deploy Team Foundation Server on a single server. You want to deploy Team Foundation 2010 installed and configured for you. You want to use the default instance of SQL Server. You do not want to use this wizard if one or more of the following statements are true. You want to utilize remote servers for SQL Server databases, SharePoint Products, or SQL Server Reporting Services. You want to install the Application Tier on an existing web site or a different port. You do not want to use the default instance of SQL Server or Reporting Services. You want to use Negotiate (Kerberos) authentication.
Team Foundation Server 2012	Start Wizard Close

• Click Close

The Configuration Center window will close and the **Team Foundation Server Administration Console** will launch.

File Help
 Win08r2-Tfs2012 Application Tier Team Project Collections SharePoint Web Applications Reporting Lab Management Proxy Server Build Configuration Extensions for SharePoint Products Logs Additional Tools and Components Visual SourceSafe Upgrade PreEmptive Analytics

Team Foundation Server 2012 is now installed.

Lab 04: Update the TFS2012 Service Account

At the moment, TFS2012 is installed so that it runs under the username **NT AUTHORITY\NETWORK SERVICE**. This is fine if you are planning to use TFS2012 as is – without any build servers and without TFS Lab Management installed – but I find that permissions management can be a lot easier if you use a regular domain account.

In this lab, you'll modify TFS2012 to use a different user for the service account. The user name you'll use is **TFSService** but it can be any Active Directory domain user.

This work will all be done on the TFS machine.

• Log in to the TFS machine as an administrator

You'll start by loading the Team Foundation Server Administration Console.



- Go to the Start menu
- Run Team Foundation Server Administration Console



You should now see the Team Foundation Server Administration Console.

- In the left panel, click **Application Tier**
- In the right panel, click Change Account

You should now see a dialog titled **Change Service Account**.

Change Service Account		×
Select a system or domain account to use as the service account for the Team Foundation Server application tier account.		
C Use a system account:	NT AUTHORITY\NETWORK SERVICE	[
Use a user account		_
Account Name:	benday\tfsservice	√ <u>Test</u>
Password:	•••••	
	ОК	Cancel

- Select Use a user account
- In the **Account Name** box, type the fully-qualified username (*domain\username*) you want to use
- In the **Password** box, type the password for the user account
- Click the **Test** button to verify the username and password
- Click the **OK** button

A new window should pop up named **Change Service Account**.

Change Service Account
Successful completion (1 warnings).
To view the detailed log, <u>click here</u> .
Status:
http://win08r2-tfs2012:17012/ The following service account was added as a member of the Farm Administrators group in Sharef
Done.
Added BENDAY\TESSERVICE to Tfs Configuration
Stopping Windows Service: TFSJobAgent Done.
Changing Application Pools
Changing application pool ApplicationTier to BENDAY\TFSSERVICE
Done.
Changing application pool MessageQueue to BENDAY\TFSSERVICE
Changing Windows Service: TFSJobAgent
Changing Service
Done.
Starting Service
Done.
Confirming whether any administrative action is required for the lab service. Lab Management is not configured for any team project collections. No action required.
<u>۱</u>
Close

- After the operation is completed, verify that the operation was successful
- Click Close

Application Tier 🔹 Refresh Application Tier Summary ^ Service Account: **BENDAY\TFSSERVICE** Update Password Web Site: Learn Foundation Server 🔏 Change Account Microsoft Team Application Pool: 🔏 Reapply Account Foundation Server Application Pool 🔁 Authentication Settings NTLM Authentication: 🜆 Group Membership Notification URL: http://win08r2-Administer Security tfs2012:8080/tfs 😫 Change URLs http://localhost:8080/tfs Server URL: Veb Access URL: http://win08r2-

The new service account should now be visible in the administration console window.

The service account for TFS2012 has now been changed.

Lab 05: Install the Team Foundation Server Build Service

In this module, you'll install the Team Foundation Server 2012 Build Service.

- Mount the ISO for Team Foundation Server 2012
- After mounting, open **Explorer.exe**
- Navigate to the root folder of the TFS installer

You should see directory that looks something like the screenshot below. From here you'll run the installer for TFS, **tfs_server.exe**.



• Double-click tfs_server.exe

You should now see the first screen of the TFS installer.



- Check the I accept the license terms for Team Foundation Server
- Click Install Now

You should now be on the Configuration Center.

📸 Team Foundation Server Configuration Center	è
Configuration Center	
Configure Team Foundation Application Server Basic Standard Single Server Advanced Application-Tier Only Upgrade Configure Team Foundation Server Press Configure Team Foundation Build Service	Abds Use the runs you Foundat Suppos You true
Additional Tools and Components Visual SourceSafe Upgrade PreEmptive Apalytics Community Edition	• Yot ma ager • You

- Choose Configure Team Foundation Build Service from the left column
- Click the **Start Wizard** button

You should now see the Build Service Configuration Wizard page.



Click Next

You should see the **Select a Team Project Collection** page.

Team Foundation Build Service Configuration	
in Build Service	Configuration Wizard
Welcome Project Collection 1	Select a Team Project Collection
Review	You must specify the team project collection that this build machine will serve.
Readiness Checks Configure Complete	Which team project collection are you configuring build services for?
Team Foundation S	erve Previous Next Review Cancel

• Click the **Browse** button to begin the process of picking a TPC for this build server

You should now see the **Connect to Team Project Collection** dialog.

Connect to Team Project Collection			? ×
Select a Team Foundation Server:			
demotfs2012		-	Servers
Team Project Collections:	1		
Contraction			
Benjamin Day		Connect	Cancel

- Choose your desired TFS machine from the Select a Team Foundation Server drop down list. (NOTE: if your server isn't in the list, click Servers... and follow the wizard steps to connect to your TFS machine.)
- After choosing your TFS, select your **Team Project Collection**
- Click Connect

You should now be back at the **Select a Team Project Collection** page.

Team Foundation Build Service Con	nfiguration	×
🔄 Build Service	Configuration Wizard	
Welcome Project Collection Build Services	Select a Team Project Collection	•
Settings	You must specify the team project collection that this build machine will serve.	
Review Readiness Checks Configure	Which team project collection are you configuring build services for?	
Complete	DefaultCollection' - Build Services:	
	Found 0 build controller(s) and 0 build agent(s) running on 1 machine(s).	
		•
Team Foundation S	erve Previous Next Review Cancel	

• Click Next

You should now see the **Build Service** page.

Team Foundation Build Service Configuration	
🧤 Build Servio	ce Configuration Wizard
Welcome Project Collection	Build Services
Build Services	Choose one of the following options:
Settings	• Use the default setting
Review Readiness Checks Configure Complete	By default, this build machine will run a build controller as well as whatever number of build agents you select below. Build agents run concurrently and do the processor-intensive work of a build, so make sure you do not run more build agents than your computer can effectively support. Number of build agents to run on this build machine: 2 (recommended)
	C Configure later
	To activate this build machine, you must manually configure Team Foundation Build Service after completing this wizard.
	Configuration summary - 1 controller, 2 agent(s)
Team Foundation	Server 2012 Previous Next Review Cancel

- Select Use the default setting
- From the **Number of build agents to run on this build machine** drop down list, choose the "recommended" value
- Click Next

You should now be on the **Configure build machine** page.

Configure build machine		
Run Team Foundation Build Service as:		
Cillice a system account:		
Use a user account	• •	
Account Name:	benday\tfsservice	
Password:	7	
	and the second has been a second to be a second	

- Choose **Use a user account** radio button
- Enter the TFS Service account name in the **Account Name** textbox
- Enter the TFS Service account password in the **Password** textbox
- Click the **Test** link to verify the username and password
- Click Next

You should now see the **Confirm the Configuration Settings Before Proceeding** page.

Confirm the Configuratio	n Settings Before Proceeding
Review each of the selected co readiness checks.	onfiguration settings and click next to begin
Feedback	True
Build Resources	inde
Configuration Type	Create
Agent Count	2
New Controller Name	DEMO2012UTIL - Controller
Clean up resources	True
Team Project Collection	4
Collection Url	http://demotfs2012:8080/tfs/ defaultcollection
erver 2012 Previous	Next Verify Cancel
7 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	and the second design of the s

• Click Next

The installer will run some verifications to see that the build service can be configured.



- Verify that the readiness check have passed
- Click the **Configure** button

You should now see the Configuration Progress dialog.



- Verify that the result is **Success**
- Click Next

You should now see the **Review the Results** page.

Team Foundation Build Service Configuration	
Build Service Configuration Wizard	
Welcome Project Collection Build Services Settings	Review the Results Success Your Build Service configuration completed successfully.
Review Readiness Checks Configure Complete	If this build machine runs any build agents, you may need to install additional components in order for these build agents to function. For more information, see the online Help. <u>Create and Work with Build Agents</u>
	Click here to open a complete log
Team Foundation S	erver 2012 Previous Next Finish Close

• Click Close
You should now be back at the main page of the Configuration Center. You should see that there is a check mark next to **Configure Team Foundation Build Service** indicating that this feature has been installed.



• Click Close to exit the installer

The TFS Build service is now installed.

Lab 06:Install the pre-requisites for System Center Virtual MachineManager 2012

This document will walk you through the process of installing the pre-requisites for System Center Virtual Machine Manager 2012 (SCVMM). For the purposes of this document, we'll assume that you've already installed the operating system and that all "important" and "recommended" Windows Update patches have already been installed.

SCVMM2012 has the following pre-requisites:

- Windows Server 2008 R2 x64 with Service Pack 1
 - o Standard, Enterprise, or Datacenter
 - NOTE: the server name <u>cannot</u> contain the string "-SCVMM-"
- WinRM 2.0
- .NET 3.5 Service Pack 1
- Windows Automated Installation Kit for Windows 7
 - o <u>http://www.microsoft.com/en-us/download/details.aspx?id=5753</u>
- SQL Server x64
 - SQL Server 2008 R2 x64
 - Standard, Datacenter, or Enterprise
 - o SQL Server 2008 x64
 - Standard or Enterprise

To perform the step described in this document, you should be logged on as an Administrator.

Install SQL Server 2008 R2 x64

This section will walk you through the process of installing SQL Server 2008 R2 x64. The installation process is similar for other versions of SQL Server but not 100% equal.

• Insert the DVD or mount the ISO for a supported version of SQL Server

Microsoft.VC80.0	CRT.manifest	3/31/2010 7:07 A
🚇 mover@0.dll		3/31/2010 7:09 AN
🛃 setup.exe		4/3/2010 2:56 PM
	1	3/31/2010 2:52 AM
🚳 sqmapi.dll		4/3/2010 2:47 PM
por a		

• Run setup.exe

If the .NET Framework has not already been installed on this server, you will be prompted to install it.

Microsoft S	SQL Server 2008 R2 Setup	×
i	SQL Server 2008 R2 setup requires Microsoft .NET Framework and an updated Windows Installer to be installed. To enable the .NET Framework Core role, click OK. To exit Setup, click Cancel.	
	OK Cancel	

• If prompted, click **OK**

You will eventually see the SQL Server Installation Center.

🏗 SQL Server Installation Center		
Planning Installation	New installation or add features to an existing installation. Launch a wizard to install SQL Server 2008 R2 in a non-cluste ed env features to an existing SQL Server 2008 R2 instance.	viroș
Tools	New SQL Server failover cluster installation Launch a wizard to install a single-node SQL Server 2008 R2 failover	r clur
Resources Advanced	Add node to a SQL Server failover cluster	1
Options	Launch a wizard to add a node to an existing SQL Server 2008 R2 fail	love
	Launch a wizard to upgrade SQL Server 2000, SQL Server 2005 or SQ Server 2008 R2.	LS
	the for product updates	ſ

- In the left panel, click **Installation**
- Click New installation or add features to an existing installation

The installer will now run a series of pre-requisite checks for SQL Server and will put you on the **Setup Support Rules** dialog.

📸 SQL Server 2008 R2 Setup	
Setup Support Rules	
Setup Support Rules identify probl corrected before Setup can continu	ems that might occur when you install SQL Server Setup support files. Failures mus
Setup Support Rules	Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 0.
	Show details >>
man man	View detailed report

- Verify that the count is zero for Failed, Warning, and Skipped.
- If there are any failures, fix the failures before continuing.
- If everything passes, click **OK**

Copyright © 2012 – Benjamin Day Consulting, Inc. – <u>www.benday.com</u> Printing or duplication is prohibited without author's expressed written permission. You should now see the **Product Key** page.



- Verify that there is a product key
- Click **Next**

The License Terms page should now be visible.



- Check I accept the license terms
- (Optional) Check Send feature usage data...
- Click Next

The Setup Support Files dialog should now be visible.

📸 SQL Server 2008 R2 Setup		5
Setup Support Files		l d
Click Install to install Setup Suppor	t files. To install or update SQL	Server 205
Product Key	The following components ar	e required
License Terms	Feature Name	Status
Setup Support Files	Setup Support Files	

• Click Install

After the support file installation step has completed, you should be on the **Setup Support Rules** page.

髋 SQL Server 2008 R2 Setup		
Setup Support Rules		
Setup Support Rules identify probl corrected before Setup can continu	ems that might occur when you install SQL Server Setup support files. .e.	Failures mu
Setup Support Rules	Operation completed. Passed: 10. Failed 0. Warning 1. Skipped 0.	
Setup Role		
Feature Selection		4
Installation Rules	Hide details <<	
Disk Space Requirements	View detailed report	
Error Reporting	· · · · · · · · · · · · · · · · · · ·	
Installation Configuration Rules	Ru Rule	Status 💎
Ready to Install	Fusion Active Template Library (ATL)	Passed
Installation Progress	Supported SQL Server products	Passed
La martin	Topapre counter bi sisten	P.

- Verify that there are zero **Failed** operations.
- Click **Next**

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- Choose SQL Server Feature Installation
- Click **Next**

You should now see the **Feature Selection** screen. The only feature that is required by SCVMM is **Database Engine Service**. If you want to keep the disk usage for your installation of SQL Server to a minimum, only choose this feature. It is sometimes helpful to have the SQL Server **Management Tools** installed on this server in case you need to run queries or perform miscellaneous maintenance operations but, if you have these tools installed on a different machine, you can safely skip this feature.

📸 SQL Server 2008 R2 Setup	
Feature Selection Select the Standard features to inst	all.
Setup Support Rules	Features:
Setup Role	Instance Features
Feature Selection	✓ Database Engine Services
Installation Rules	3QL Server Replication
Instance Configuration	Full-Text Search
Requirers of	Analysis Services

- Check Database Engine Services
- (Optional) Check Management Tools Basic
- (Optional) Check Management Tools Complete
- Click Next

Before the installer actually installs your features, it will do one last check. You should now see the **Installation Rules** page.

🏗 SQL Server 2008 R2 Setup	
Installation Rules	
Setup is running rules to determ	nine if the installation process will be blocked. For more information, click Help.
Setup Support Rules	Operation completed. Passed: 2. Failed 0. Warning 0. Skipped 22.
Setup Role	
Feature Selection	
Installation Rules	Show details >>
Instance Configuration	View detailed report
A Real Property of	had a second and a second and a second and

- Verify that there are zero **Failed** operations.
- Click Next

You should see the **Instance Configuration** page.

🏗 SQL Server 2008 R2 Setup			
Instance Configuration			
Specify the name and instance I	D for the instance of SQL Server. Instance ID		
Setup Support Rules	Oefault instance		
Setup Role	C Named instance: MSSOI SERVER		
Feature Selection	mosteren		
Installation Rules			
Instance Configuration	Instance ID: MSSOLSERVER		
Visk vace Re viger	and annual of		

- Choose **Default instance**
- Click Next

The **Disk Space Requirements** screen should be visible and the disk space usage check should be passing.



Click Next

The **Server Configuration** screen should be visible and you'll need to make several adjustments to the default values.

📸 SQL Server 2008 R2 Setup				_o×
Server Configuration				85555
Specify the service accounts and	collation configuration.	×		
Setup Support Rules	Service Accounts Collation			
Setup Role Feature Selection	Microsoft recommends that you	u use a separate account for ea	ch SQL Server sen	vice.
Installation Rules	Service	Account Name	Password	Startup Type
Instance Configuration	SQL Server Agent			Automatic 👻
Disk Space Requirements	SQL Server Database Engine			Automatic
Server Configuration	SQL Server Browser	NT AUTHORITY\LOCA		Disabled 💌 🕴
Database Engine Configuration				
Error Reporting	and the second s	etherew		vice

• Locate the row for SQL Server Agent and set the Startup Type value to Automatic

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Service	Account Name	Password	Startup Type
QL Server Agent			Automatic 💌
QL Server Database Engine			Automatic 💌
QL Server Browser	NT AUTHORITY\LOCA		Disabled 💌
	Use the same	e account for all	SQL Server services

• Click Use the same account for all SQL Server services

Use the same account for	all SQL Server 2008 R2 services	
Specify a user name and	I password for all SQL Server service accounts.	
Account Name: NT AU	ITHORITY\NETWORK SERVICE	Browse
Password:		
		OK Cancel

- From the Account Name drop-down list, choose NT AUTHORITY\NETWORK SERVICE
- Click **OK**

The Server Configuration screen should now look like the following image.

ice	Account Name	Password	Startup Type
Server Agent	NT AUTHORITY\NETW		Automatic 💌
Server Database Engine	NT AUTHORITY\NETW		Automatic 💌
Server Browser	NT AUTHORITY\LOCA		Disabled 💌
Server Database Engine Server Browser	NT AUTHORITY\LOCA		Automatic Disabled

• Click Next

The **Database Engine Configuration** page should now be prompting you for information about **Account Provisioning**. SQL Server does not automatically add members of the Windows Administrators group as SQL Server administrators. My recommendation is to add the Domain Admins group as SQL Server administrators but this is optional.

Accou	Int Provisioning Data Directories FILESTREAM
Spec	cify the authentication mode and administrators for the Da
Auth	nentication Mode
• W	Vindows authentication mode
ON	lixed Mode (SQL Server authentication and Windows auther
Spec	ify the password for the SQL Server system administrator (sa
Ente	r password:
Cont	firm password:
Spec	cify SQL Server administrators
r	
Ad	ld Current User Add Remove
	manufacture and an and and and and and and and and

- Verify that Windows authentication mode is selected
- Click **Add Current User** to mark the current user account as an administrator in SQL Server

(Optional) If you want to add the members of the Domain Admins group as SQL Server administrators, follow these steps.

Specify SQL Server administrators	
BENDAY\benday (Benjamin Day)	
Add Current Use Add Remove	5

• Click Add

You should see the Select Users, Computers, or Groups dialog.

Select Users, Computers, or Groups		? ×
Select this object type:		
Users, Groups, or Built-in security principals		Object Types
From this location:		
Entire Directory		Locations
Enter the object names to select (examples):		
Domain Admins		Check Names
<u>A</u> dvanced	ОК	Cancel

- In the Enter the object names to select box, type Domain Admins
- Click **OK**

The **Specify SQL Server administrator** list should now look something like this.



Click Next

You should now be on the Error Reporting page.



- Check the Send Windows and SQL Server Error Reports to Microsoft checkbox
- Click **Next**

Copyright © 2012 – Benjamin Day Consulting, Inc. – <u>www.benday.com</u> Printing or duplication is prohibited without author's expressed written permission. Another Installation Configuration Rules check.

📸 SQL Server 2008 R2 Setup	
Installation Configuration	n Rules
Setup is running rules to determine	e if the installation process will be blocked. For more information, click Help.
Setup Support Rules	Operation completed. Passed: 4. Failed 0. Warning 0. Skipped 4.
Setup Role	
Feature Selection	
Installation Rules	Show details >>
Instance Configuration	Non-detailed report

- Verify that there are zero **Failed** operations
- Click **Next**

Ready to Install Verify the SQL Server 2008 R2 features to be installed. Setup Support Rules Setup Role Feature Selection Installation Rules Installation Rules Installed Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Progress Complete Scomplete	5 SQL Server 2008 R2 Setup	_ _ _ _
Setup Support Rules Ready to install SQL Server 2008 R2: Setup Role	Ready to Install Verify the SQL Server 2008 R2 feat	ures to be installed.
C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20120722_093641\ConfigurationFile.in	Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Ready to install SQL Server 2008 R2: Summary - Edition: Standard - Action: Install General Configuration - Database Engine Services - Instance Configuration - Instance Configuration - Instance Configuration - Instance ID: MSSQLSERVER - Instance ID: MSSQLSERVER - Instance ID: - SQL Database Engine: MSSQL10_50.MSSQLSERVER - Instance Directory: C:\Program Files\Microsoft SQL Server\ - Shared component root directory - Shared feature directory: C:\Program Files\Microsoft SQL Server\ - Shared feature directory: C:\Program Files\Microsoft SQL Server\ - Shared feature directory: C:\Program Files\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\ - Shared feature (WOW64) directory: C:\Program Files (x86)\Microsoft SQL Server\)

You should now see the installation summary on the **Ready to Install** screen.

• Click Install

The installer should run and you should eventually see the **Complete** screen.

📸 SQL Server 2008 R2 Setup	
Complete Your SQL Server 2008 R2 installat	ion completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	Summary log file has been saved to the following location: <u>C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20120722 093641</u> <u>\Summary SCVMM2012 20120722 093641.txt</u> Information about the Setup operation or possible next steps: Vour SQL Server 2008 R2 installation completed successfully.
Installation Progress Complete	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at http://go.microsoft.com/fwlink/?LinkId=108409 . Samples
	Close Help

• Click Close

Install SQL Server 2008 Service Pack

Now that SQL Server 2008 R2 has been installed, you should download and install the latest service pack.

• Download and install the latest service pack for SQL Server 2008 R2

Install the Windows Automated Installation Kit for Windows 7

• Mount the ISO image for WAIK, KB3AIK_EN.iso



• Click Run StartCD.exe

The installer welcome window should be visible.



• From the left column, click Windows AIK Setup

The installer should load and you should see the **Welcome to the Windows Automated Installation Kit Setup Wizard** page.

🛃 Windows Automated Installation Kit	
Welcome to the Windows Automated Installati Kit Setup Wizard	on 😺
The installer will guide you through the steps required to install Windows Autom on your computer.	ated Installation Kit
Cancel < <u>B</u> ack	Next >

• Click Next

😸 Windows Automated Installation K	ït		
License Terms			
Please take a moment to read the Licens then "Next". Otherwise click "Cancel".	se Terms now. If you	accept the terms be	low, click "I Agree",
MICROSOFT SOFTWARE LIC	ENSE TERMS		_
MICROSOFT WINDOWS AUTO	MATED INSTAL	LATION KIT	
These license terms are an age based on where you live, one of They apply to the software nar you received it, if any. The terr	reement between of its affiliates) a ned above, which ns also apply to	n Microsoft Corpo nd you. Please rea h includes the me any Microsoft	ration (or ad them. dia on which 💌
C I Do Not Agree	● I Agree		
	Cancel	< Back	Next >

- Choose I Agree
- Click Next

😸 Windows Automated Installation Kit	
Select Installation Folder	
The installer will install Windows Automated Installation Kit to the follow To install in this folder, click "Next". To install to a different folder, enter	ing folder. it below or click "Browse".
C:\Program Files\Windows AIK\	Browse
	Disk Cost
Install Windows Automated Installation Kit for yourself, or for anyone	who uses this computer:
Everyone	
⊂ Just me	
Cancel < B	ack Next >

- Choose Everyone
- Click Next

😸 Windows Automated Installation K	it		<u>_ </u>
Confirm Installation			
The installer is ready to install Windows A Click "Next" to start the installation.	automated Installation	on Kit on your compute	r.
	Cancel	< <u>B</u> ack	Next >

• Click **Next**

You should now be on the **Installation Complete** dialog for the Windows Automation Installation Kit.

🗒 Windows Automated Installation K	lit	_	
Installation Complete			
Windows Automated Installation Kit has	been successfully installed.		
Click "Close" to exit.			
	Cancel	Back Close	e

• Click Close

The pre-requisites for System Center Virtual Machine Manager 2012 are now installed.

Lab 07: Install System Center Virtual Machine Manager 2012

In this section, you'll install SCVMM 2012.

Insert the SCVMM 2012 disk or mount the ISO



• Click Run setup.exe

You should see the Microsoft System Center 2012 Virtual Machine Manager installer welcome page.



• Click Install

The setup wizard will prompt you to **select features to install**.

🔲 Microsoft System Center 2012 Virtual Machine Manager Setup Wizard
Getting started
Select features to install
✓ VMM management server
VMM Self-Service Portal
and the second s

- Check VMM management server
- Click **Next**

You should now see the product registration information screen.

🔳 Microsoft System	m Center 2012 Virtual Machine Manager Setup Wizard 🧼
Getting started	
Product	registration information
Name:	Benjamin Day
Organization:	Benjamin Day Consulting, Inc.
Product key:	

- Fill out the **Name** and **Organization** box with the relevant values for your company
- Enter a **Product key**
- Click Next

You should now be on the **Please read this license agreement** page.

Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	X
Getting started	Report a problem
Please read this license agreement	
MICROSOFT SOFTWARE LICENSE TERMS	±
MICROSOFT SYSTEM CENTER 2012 CONFIGURATION MANAGER	
MICROSOFT SYSTEM CENTER 2012 CLIENT MANAGEMENT SUITE	
MICROSOFT SYSTEM CENTER 2012 STANDARD	
MICROSOFT SYSTEM CENTER 2012 DATACENTER	
These license terms are an agreement between Microsoft Corporation (or based on where you live, or affiliates) and you. Please read them. They apply to the software named above, which includes the model which you received it, if any. The terms also apply to any Microsoft	one of its nedia on
• updates,	-
\overline{arphi} I have read, understood, and agree with the terms of the license agreement	Print
VMM Privacy Statement	MALKAN
Previous Next >	Cancel

- Read the license terms
- Check I have read, understood, and agree with the terms of the license agreement
- Click **Next**



- Choose whether you want to participate in the Customer Experience Improvement Program
- Click Next

You should now be on the Microsoft Update page.



- Choose **On (recommended)**
- Click Next

On the Installation location page, you have the opportunity to choose where SCVMM is installed on disk. It is recommended to accept the defaults.

🔝 Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	
Getting started	
Installation location The recommended location for program files is displayed.	
Location: C:\Program Files\Microsoft System Center 2012\Virtual Machine Manager	•
Free space 22.14 GB	

- Modify the **Location** only if absolutely necessary
- Click **Next**

You should now see the Database configuration page.

Image: Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Configuration	Report a problem
Database configuration Provide information about the database that you would like to use for your VMM management server.	
Server name: SCVMM2012	Browse
Use the following credentials User name and domain: Format: Domain\UserName	
Password:	
Instance name:	•
Select an existing database or create a new database.	
New database: VirtualManagerDB	
C Existing database:	-
	MACHT
Previous	> Cancel

• Click Next

You should now see the **Configure service account and distributed key management** page.

🗐 Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Configuration	Report a problem
Configure service account and distributed ke	ey management
Virtual Machine Manager Service Account	
Select the account to be used by the VMM service. Highly available VMM instal Which type of account should I use? C Local System account	llations require the use of a domain account.
User name and domain: Pass	sword:
	Select
Distributed Key Management	
Select whether to store encryption keys in Active Directory instead of on the log require the keys be stored in Active Directory.	cal machine. Highly available VMM installations
Store my keys in Active Directory	
Provide the location in Active Directory. For example, CN=DKM,DC=contoso	p,DC=com.
How do I configure distributed key management?	MHT K
	Previous Next > Cancel

- Choose Local System account
- Uncheck Store my keys in Active Directory
- Click Next

You should now see the **Port configuration** screen.

Microsoft Syster	n Center 2012 Virtual Machine Manager Setup Wizard
Configuration	
Port con	figuration
Managemen	it Server
Please select th	e ports for various VMM features.
8100	Communication with the VMM console
5985	Communication to agents on hosts and library servers
443	File transfers to agents on hosts and library servers
8102	Communication with Windows Deployment Services
8101	Communication with Windows Preinstallation Environment (Windows PE) agents
8103	Communication with Windows PE agent for time synchronization
	and

• Click Next
You should see the **Library configuration** screen.

Microsoft System Center	er 2012 Virtual Machine Manager Setup Wizard	>
Configuration		Report a problem
Library confi	guration	Ž
Specify a share for	r the Virtual Machine Manager library	3
Create a new librar	y share	T I
Share name:	MSSCVMMLibrary	\$
Share location:	C:\ProgramData\Virtual Machine Manager Library Files	Select
Share description:	VMM Library Share	r
O Use an existing libr	ary share	
Share name:	MSSGVMMLibrary	a server and

• Click Next

The wizard should now be on the **Installation summary** page.

Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Configuration	Report a problem
Installation summary	
Review the selections for features you are installing. To continue, click Install. To change these selections, c	lick Previous.
Features selected to be added VMM management server VMM console	-
Installation Location C:\Program Files\Microsoft System Center 2012\Virtual Machine Manager\	
Database Information VirtualManagerDB database will be created on SCVMM2012	
Service Account BENDAY\scvmm	
Communication Ports 8100 - Communication with the VMM console or Self-Service Portal 5985 - Communication to agents on hosts and library servers 443 - File transfers to agents on hosts and library servers 8102 - Communication with Windows Deployment Services	
8101 - Communication with Windows Preinstallation Environment (Windows PE) agents	
Previous	nstall Cancel

• Click **Install** to begin the installation

The installer process should run and eventually display the **Setup completed successfully** message.

Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Complete	Report a problem
Setup completed successfully For detailed information, review the Setup log files that are located in the %SYSTEMDR Note that the ProgramData folder is a hidden folder.	입VE%\ProgramData\VMMLogs folder.
 ✓ VMM management server ✓ VMM console 	Release Notes Installation Guide Read Documentation System Center Online
Open the VMM console when this wizard closes	
	Close

- Check Open the VMM console when this wizard closes
- Click Close to exit the installer and start the VMM console

Verify You Can Connect

The installer should exit and you should see a new dialog prompting you to **Connect to Server**.

Connect to Sen	osoft [,] /stem Center 2012
Vir	tual Machine Manager
Server name:	localhost:8100 Example: vmmserver.contoso.com:8100
Use current	Microsoft Windows session identity
C Specify cred	entials
User name:	Example: contoso\domainuser
Password:	
Automatically of	connect with these settings Connect Cancel

• Click Connect

Administrator - SCVMM2012.benday.local	- Virtual Machine Manager	- D ×
Home Folder		^ 🥑
🍇 🧗 🏝 📫	🔿 🙆 🦍 🚸	2 PowerShell
Create Create Virtual Create Create Host Service Machine Cloud Group	Assign Overview VMs Services	PRO
Create	Cloud Show	Window
VMs and Services <	VMs (0)	
a Clouds		٩
All Hosts	No C - Via Had Cla	
		`
🔯 VMs and Services		
Pabric		
🧮 Library		
🗄 Jobs		
Settings		
Ready		li.

If you see the following screen, then you've managed to connect to your new SCVMM server.

The next step is to add the Hyper-V host that you'll eventually use for Team Foundation Server 2012 Lab Management.

Add a Hyper-V Host Machine to SCVMM 2012

You should still be on the main page of the SCVMM admin console and you should see the **VMs and Services** section of the user interface. In the left column, you should see **VMs and Services** and under that you should see a node that is labeled **All Hosts**.



• Right-click All Hosts and choose Add Hyper-V Hosts and Clusters

The Add Resource Wizard should launch and you should see the Resource location page.

Add Resource Wizard	
Resource	location
Resource location	Indicate the Windows computer location
Credentials	Windows Server computers in a trusted Active Directory domain
Discovery scope	C Windows Server computer in an untrusted Active Directory domain
Target resources	Windows Server computers in a perimeter network
Host settings	If you select this option, before you continue, use VMM Setup to install the you targeted computers. Ensure that you configure the perimeter network setting
Summary	C Physical computers to be provisioned as virtual machine hosts
	Select this option to add bare-metal computers with baseboard management

- Choose Windows Server computers in a trusted Active Directory domain
- Click Next

You should now see the **Specify the credentials to use for discovery** page. This page requires you to enter the credentials for a user who is an administrator on the target Hyper-V host machine. These credentials are **only** going to be used **for installing** the SCVMM Agent Service and will not be used for running the service.

Add Resource Wizard	s
Resource location	Specify the credentials to use for discovery
Credentials	The Run As account or credentials will be used to discover computers and to install
Discovery scope	the Virtual Machine Manager agent if necessary.
Target resources	O Use an existing Run As account
Host settings	Run As account:
Summary	Manually enter the credentials User name: benday\benday Example: contoso\domainuser
	Password: The above provided credentials or Rup As account should be a local administ

- Choose Manually enter the credentials
- In the **User name** field, enter the user name for the installation user
- In the **Password** field, enter the password for the installation user
- Click **Next**

You should now see the **Specify the search scope for the virtual machine host candidates** screen. This screen allows you to enter the name of the server or servers that you want to configure as a Hyper-V host.

😭 Add Resource Wizard	x
🐴 Discovery	v scope
Resource location	Specify the search scope for virtual machine host candidates
Discovery scope	generate an Active Directory query to discover the desired computers.
Target resources	Specify windows Server computers by names Specify an Active Directory query to search for Windows Server computers
Host settings Summary	Enter the computer names of the hosts or host candidates that you want VMM to manage. Each computer name must be on a separate line. Computer names:
	Skip AD verification Examples: server1 server1.contoso.com 10.0.1.1 2a01:110:1e:3:f8ffcfe44:23
	Previous Next Cancel

- Choose Specify Windows Server computers by names
- In the **Computer names** box, enter the name of the Hyper-V host you want to add
- Click **Next**

The installer will search for the servers in Active Directory and eventually display them on the **Select the computers that you want to add as hosts** page.

省 Add Resource Wizard			×
省 Target res	ources	A	ANH I
Resource location	Select the computers th	at you want to add as hosts	
credentials	Discovered computers:		
Discovery scope	Computer Name	Operating System	Hypervisor
Target resources	💌 🕴 transformatic benday iter	Windows Server 2008 R2 Standard	Hyper-V
Host settings			
Summary			
Summary			
	Select all Refresh	Stop	
		Previous	Next Cancel

- Check the checkbox next to each server you want to add
- Click **Next**

The wizard should now be displaying the **Specify a host group and virtual machine placement path settings for hosts** page.

省 Add Resource Wizard	<u>×</u>
📍 Host setti	ings
Resource location Credentials	Specify a host group and virtual machine placement path settings for hosts Assign the selected computers to the following host group:
Target resources	Host group: All Hosts
Host settings	If any of the selected hosts are currently managed by another Virtual Machine Manager (VMM) environment, select this option to reassociate the hosts with this VMM management server.
Summary	Reassociate this host with this VMM environment VMM uses virtual machine placement paths as default locations to store virtual machines placed on a host. To add a new virtual machine placement path, specify a path and click Add. Add the following path:
	Selected virtual machine placement paths: Remove
	Previous Next Cancel

• Click Next

You should now see the **Confirm the settings** page with a summary of your selections.

😭 Add Resource Wizard				×
省 Summary			đá	ANN I
Resource location Credentials	Confirm the settir	igs		View Script
Discovery scope Target resources Host settings Summary	Resource type: Resource location: Discovery credentials Discovery scope: Host settings:	Hyper-V capable Windows Servers Trusted Windows computer benday\benday Computer name based discovery 1 computers are selected to manag Host group: All Hosts	e	
			Previous	Finish Cancel

• Click Next

You should see a new **Jobs** window pop up and you should see the **Add virtual machine host** job running.

Ū,	obs			5
Jobs	s - recent jobs (1)			
	Name	Status	Ŧ	Start Time
۲	Add virtual machine host		50 %	7/24/2012 3:39
			-	

The job should complete without any errors. (Note: there may be "info" warnings.)

	Ū J	obs		$\overline{}$				
	Jobs	- recent jobs (1)						
		Name	Status	- Start				
		Add virtual machine host	Completed w/ Info	7/24/2				
L								
-		tual of the of						

• Close the **Jobs** window

After you close the jobs window, you should see the SCVMM Console again. In the left column, you should see the new host you just added and, if you click on the host, the list of virtual machines on that host should be visible.

Ξ			Server Tools	Adm	inistrato	or - SCVMM2	2012.be	enday.local	- Virtual Machine Manag
	Home	Folder	Host						
2	*	گ					ħ	1	2 PowerShell
Create Service	Create Virtua Machine •	I Create Cloud	Create Host Group	A	ssign Cloud	Overview	VMs	Services	RO
	Cro	eate		(Cloud		Show		Window
VMs and S	Services		*	۷Ms	; (13)				
Clouds									
				Name			Status	Virtual Machine State	
				LoadA	gent2012a		Stopped	Stopped 🔹	
	_				Demo	Lab1		Stopped	Stopped
					scvmn	n2012		Running	Running
					Demo	Build		Stopped	Stopped
					Demo	TFS2010		Stopped	Stopped
	-			6	benev	ello		Running	Running

Configure System Center Virtual Machine Manager 2012 (SCVMM2012) for Team Foundation Server 2012 (TFS2012)

In order to interact with SCVMM, the service account for Team Foundation Server (TFS) needs administrator permissions.

Administrator - SCVMM2012.benday.lo	cal - Virtual	Machine Manager			(
Home					
Create Create Run Create Servicing Window	Backup	PowerShell Jobs PRO	Delete	Properties	
Create	Backup	Window	Delete	Properties	
Settings	User Ro	oles (1)			
4 🎎 Security	Name	<u> </u>		Description	. 4
🐼 User Roles	Admin	istrator		Administrat	tor User Role
🛃 Run As 🗽 counts	-				
Servicing Window	Admi	nistrator			
🖞 Configuration Providers	Role n	nembers: BENDAY\	bendav. BEI	NDAY\SCVMM	2012\$. BENDAY\Dom
System Center Settings 2.	Descri	ption: Administr	rator User R	ole	
w VMs and Services					
😳 Fabric					
🗧 Library					
🖹 Jobs	_				4
Settings					
handhand	- 				

- Click the **Settings** button
- Expand the Security node and click User Roles
- Double-click the **Administrator** role

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Administrator Properties		2
Name and description	Members	1
Members	Members are user accounts or Active Directory groups that belong to this user role.	
	Members:	
1	Name	Add
	BENDAY\benday	Remove
	BENDAY\SCVMM2012\$	
1	BENDAY\Domain Admins	
	BENDAY\scvmm	

- Click the **Members** button in the left column
- Click the **Add...** button

On the Select Users, Computers, or Groups dialog, enter the TFS service account user name.

Select Users, Computers, or Groups	?)
Select this object type:	
Users, Computers, or Groups	Object Types
From this location:	
Users	Locations
Enter the object names to select (<u>examples</u>):	1
TFSSERVICE (TFSSERVICE@work.benday.com)	Check Names
1	
<u>A</u> dvanced	OK Cancel

- In the **Enter the object names to select** box, type the username for the TFS service account (example: benday\TFSService)
- Click **OK** to exit the dialog

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- On the Administrator Properties dialog, click OK
- Close the SCVMM administrator console
- Run **Windows Update** and install any available updates

Configure Team Foundation Server to Use Lab Management

At the moment, our TFS machine doesn't know anything about the System Center configuration that we'll use for Lab Management. To start, we'll need to install **System Center Virtual Machine Manager** on our TFS machine.

- Log on to the Team Foundation Server machine as a user with Administrator permissions
- Insert the SCVMM 2012 disk or mount the ISO



• Click Run setup.exe

You should see the Microsoft System Center 2012 Virtual Machine Manager installer welcome page.



• Click Install

The setup wizard will prompt you to **select features to install**.

🔳 Microsoft System Center 2012 Virtual Machine Manager Setup Wiza
Getting started
Select features to install
□ VMM management server
VMM console
VMM Self-Service Portal

- Check VMM console
- Click Next

You should now see the **Please read this notice** screen.

III Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Getting started	Report a problem
Please read this notice	
IMPORTANT NOTICE: You must install the Microsoft System Center 2012 Virtual Machine software ("VMM server software") before installing this VMM agent, self-service portal, and co software ("VMM component software"). By clicking "I agree" you confirm that you already ins server software and accepted the System Center 2012 license terms. Those license terms a the VMM component software. You must have a validly licensed copy of System Center 207 Manager to use the component software on your devices. If you do not accept the System C terms, do not use this VMM component software.	Manager server onsole component stalled the VMM apply to your use of 12 Virtual Machine center 2012 license
✓ I agree with the terms of this notice VMM Privacy Statement	Print
Previous	Next > Cancel

- Check the I agree with the terms of this notice checkbox
- Click **Next**

You should now see the **Customer Experience Improvement Program** page.

• Click Next

You should now see the **Installation location** page.

• Click **Next**

You should now see the **Port configuration** page. If you used all the default values when you installed the SCVMM server, you don't have to make any changes on this page.

追 Microsoft Systen	n Center 2012 Virtual Machine Manager Setup Wizard
Configuration	
Port con	figuration
Administrato	or Console
8100	Communication with the VMM management server
	3
-	Sand man have

• Click Next

You should now see the **Installation summary** page.

🔝 Microsoft System Center 2012 Virtual Machine Manager Setup Wizard
Configuration
Installation summary
Review the selections for features you are installing. To continue, click Install. To change the
Features selected to be added VMM console
Installation Location C:\Program Files\Microsoft System Center 2012\Virtual Machine Manager\
Communication Ports 8100 - Communication with the VMM console or Self-Service Portal
man man and and and and and and and and and a

• Click Install

You should now be on the **Setup completed successfully** page and you should see that the **VMM console** feature installed successfully.

Microsoft System Center 2012 Virtual Machine Manager Setup Wizard	×
Complete	Report a problem
Setup completed successfully For detailed information, review the Setup log files that are located in the %SYSTEMDR Note that the ProgramData folder is a hidden folder.	IVE%\ProgramData\VMMLogs folder.
VMM console	 Release Notes Installation Guide Read Documentation System Center Online
	Close

- Uncheck Open the VMM console when this wizard closes
- Click **Close**

You should be back at the main page of the SCVMM installer.



Click Close

Enable the Team Foundation Server 2012 Lab Management Feature

You'll now need to run the **Team Foundation Server Administration Console** in order to enable the Lab Management features.



- Click the Windows Start button
- In the search box, type **Team Foundation Server**
- From the search results, choose **Team Foundation Server Administration Console**

When the administration console loads, you'll need to navigate to the **Lab Management** section.



- From the left column, click Lab Management
- In the right panel, click **Configure**

You should now see the **Lab Management Settings** dialog. This dialog connects your TFS installation to SCVMM.

Virtual Machine Manager	Netwo	rk Isolation
Type the name of System Co manage the virtual machine	enter Virtu host gro	ual Machine Manager (SCVMM) server that will be used to ups and other resources. <u>More Information</u>
SCVMM Server Name (FQDN	J):	1
scvmm2012.benday.local		V Test
Example: my.scvmm.server.	com	

- In the **SCVMM Server Name (FQDN)** box, type the fully-qualified name of your SCVMM server.
- Click the **Test** link
- After the Test link has run, verify that the checkmark is visible
- Click **OK**

You should now be back on the Lab Management configuration page and you should see a message saying "none of the existing team project collections is configured to use SCVMM."

📑 Lab Management		🖻 Refresh
This feature has been installed and create standard and SCVMM enviro environments, users can verify bui diagnostic data.	l configured for users to onments. Using standard lab lds, run tests, and collect	•
SCVMM Settings:		- 2
SCVMM Server Name:	scvmm2012.benday.local	I I
🚰 Network Isolation Settings:		
IP Block:	192.168.23.0/24	5
DNS Suffix:	benday.local	
▲ None of the existing team protect to use SCVMM. To do so, clicil Collections node, the name of Management tab, and then early and the ea	ject collection is configured k the Team Project f the collection, the Lab ach Configure link.	
		<u>_</u>

To configure your Team Project Collection(s) for Lab Management, start by going to the Team Project Collections node.

🥶 Team Foundation Server Administration Co	onson
File Help	
🗆 🧕 DEMOTFS2012	K
Application Tier	5
🖓 Team Project Collections	E
MarcePoint Web Applications	1
👔 Reporting	
📑 Lab Management	
🔒 Proxy Server	Υ.
Built Configuration	1

• In the left side panel, click **Team Project Collections**

Team Project Collections 🔹 Loading... 🕜 Help Name State Oreate Collection 🚮 DefaultCollection Online Attach Collection • Team Projects General Status SharePoint Site Reports Folder Lab Management Configure Library Shares Library Shares: Not Configured Configure Host Groups Host Groups: Not Configured

This will take you to the **Team Project Collections** page.

- Click the Name of the Team Project Collection that you want to configure
- Click the Lab Management tab

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You should see that the Library Shares and Host Groups are listed as Not Configured.

• Click the **Configure Library Shares** link

You should now see a dialog named Lab Management Settings.

Lab Management Set	tings	
Library Shares	Host Groups	4
Select one or mo provision" to au Alternatively, yo <u>Information</u> This change app	ore VMM library shares t tomatically add these lib u can use the TFSLabCo plies to all team projects. erify	o add to this team project coller rary shares to each team projec nfig command-line utility to
Name		Path
a particular	-	- martine

- Click the **Library Shares** tab
- Click the Add and Verify button

Select Library Shares	×
Select one or more SCVMM library shares to add to	this team project collection.
Virtual Machine Manager Library Shares \\SCVMM2012.benday.local\MSSCVMMLibrary	
[Add Cancel

- Select one or more library shares from the **Virtual Machine Manager Library Shares** list.
- Click Add

You should now be back on the Library Shares tab.

Management Settings			
Library Shares Hos	st Groups		
Select one or more VM provision" to automati Alternatively, you can <u>Information</u> This change applies to	IM library shares to ically add these lib use the TFSLabCor all team projects.	o add to this team project collection. Sele rary shares to each team project in this co nfig command-line utility to perform the	ct "auto- ollection. se actions. <u>More</u>
- Add and Verify	🗙 Delete	1	
Name		Path	Auto Provision
You can verify the stat several minutes. Team Foundation	us of the selected Server successfully	library shares; however, this could take verified the library shares.	Verify

• Verify that you see the message **Team Foundation Server successfully verified the library shares.**

Now that you've configured the Library Shares, you can configure the **Host Groups**.

Lab Management Set	tings	
Library Shares	Host Groups	- T
Select one or mo to automatically can use the TFSI This change app	ore VMM host groups to add these host groups to LabConfig command-line olies to all team projects.	add to this team project beach team project in e utility to perform these
Name		Path 📏
		-me I

- Click on the **Host Groups** tab
- Click Add and Verify

You should now see the **Select Host Groups** dialog.

Select Host Groups	
Select one or more SCVMM host groups to	add to this team p
Virtual Machine Manager Host Groups	
All Hosts	
hanne	-

- Choose the appropriate **Host Group** from the list. (Example: All Hosts)
- Click **Add**

You should now be back on the **Lab Management Settings** dialog and you should see the host groups you just added in the list.

Add and Verify X Delet	te	
Name	Path	B
All Hosts	All Hosts	1
You can verify the status of the	e selected host groups; however, this cou	ld take 🏹
Team Foundation Server su	accessfully verified the host groups.	
	A second and a second	

- Verify that the **Team Foundation Server successfully verified the host groups** dialog is displayed
- Click **OK**

You should now see the **Library Shares** and **Host Groups** section of the administrator showing that there are now configured values.

🙀 Team Project C	ollections		🔹 Loading	🕜 н
Name	State Online		💽 Create	e Collecti n Collecti
General SharePoint Site	Status Reports Folder	•	Team Projects Lab Manageme	ent
Library Shares: 1 lib Host Groups: 1 ho	rary share ost group	 () () () () 	Configure Library Configure Host Gr	Shares oups

You've completed configuring Lab Management and SCVMM for your server.