

INSTALL AND CONFIGURE BIZTALK SERVER 2013 IN A STANDALONE MACHINE



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1. BizTalk Server Installation scenario

This article explains how to install and configure Microsoft BizTalk Server 2013 on a single computer running Windows Server 2012. This information will help you plan the installation and configuration of BizTalk Server 2013, applications and components on which it depends focused on creating a development environmenton (you can also follow this tutorial to help you create production environments, however if this is the case you need to skip some steps)

We will assume that the machine already have installed the operating system: Windows Server 2012 and latest critical Windows updates from Microsoft.

In this scenario I will perform a full installation of Microsoft BizTalk Server, with the exception of the deprecated SharePoint Adapter (SharePoint Services Service Side Object Model (SSOM)). The following components will be installed:

- Enterprise Single Sign-On (SSO).
- BizTalk Group.
- BizTalk Runtime.
- Business Rule Engine.
- BAM Tools and Alerts.
- BAM Portal.
- BizTalk EDI/AS2 Runtime
- Microsoft BizTalk Adapters for Enterprise Applications (BizTalk Adapter Pack)
- Microsoft UDDI Services
- Microsoft BizTalk ESB Toolkit



2. Important considerations before set up the server

There are some important considerations or suggestions, since some of these operations are not mandatory, that we can set before starting the installation and configuration of the server.

One of the downsides of dealing with a new version of Windows Server is figuring out where things have moved in the new release.

2.1 Join the Local Administrators Group

To be able to install and configure BizTalk Server 2013, you have to log on the server using an administrator account on the local computer.

To add a member to a local group using the Windows interface

- Press the "Windows key" to switch to start screen.
- Type "Computer Management" and click in "Computer Management" option on Apps menu.



Right-click the group to which you want to add a member, click "Add to Group", and then click "Add".



- In the Select Users, Computers, or Groups dialog box, do the following:
 - To add a user account or group account to this group, under "Enter the object names to select", type the name of the user account or group account that you want to add to the group, and then click "OK".
 - To add a computer account to this group, click "Object Types", select the "Computers" check box, and then click "OK". Under "Enter the object names to select", type the name of the computer account that you want to add to the group, and then click "OK".

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NOTE: If you are planning to create a production environment you can see the list Windows user (or service accounts) and group affiliations used by BizTalk Server and some best practices of naming convention here: <u>User and Service</u> <u>Accounts Used in BizTalk Server</u>

2.2 Change the Machine name

An important consideration that you take into consideration is: if your computer name is longer than 15 characters, BizTalk Server Configuration will not work.

- Start by running the "Server Manager" from either the "Start Screen" or the Desktop.
- In the Server Manager Dashboard, click on "Local Server" on the left side.

È.		Server Manager		_ 0 ×
Server Ma	nager • Local Sei	rver	• 🕄 🚩 Manage Tools	View Help
III Dashboard	PROPERTIES For BTS2013LAB01			TASKS 💌
Local Server	Computer name	8TS2013LAB01	Last installed undates	Vester
All Servers	Workgroup	WORKGROUP	Windows Update	Install
File and Storage Services D			Last checked for updates	Today
IIS				
	Windows Firewall	Public: Off	Windows Error Reporting	Off
	Remote management	Enabled	Customer Experience Improvement Program	Not pa
	Remote Desktop	Enabled	IE Enhanced Security Configuration	Off =
	NIC Teaming	Disabled	Time zone	(UTC) I
	Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	00184-
	Local Area Connection	IPv4 address assigned by DHCP, IPv6 enabled		
	Operating system version	Microsoft Windows Server 2012 Standard	Processors	Intel(R
	Hardware information	Microsoft Corporation Virtual Machine	Installed memory (RAM)	4 GB
	<	ш	Tatal disk same	>

• In the Server Properties for the "Local Server", click in the "Computer name" property to be able to change it

	System Properties
Computer Name Hardwar	re Advanced Remote
Windows uses on the network	the following information to identify your computer
Computer description:	
	For example: "IIS Production Server" or "Accounting Server".
Full computer name:	BTS2013LAB01
Workgroup:	WORKGROUP
To rename this computer workgroup, click Change	or change its domain or Change
	OK Cancel Apply

• Click on the "Change" button to edit computer name and domain information, which will pop up this dialog:

Computer Name/Domain Changes
You can change the name and the membership of this computer. Changes might affect access to network resources.
Computer name:
BTS2013LAB01
Full computer name: BTS2013LAB01
Member of
O Domain:
<u>W</u> orkgroup:
WORKGROUP
OK Cancel

Now you can finally change the name of the computer. You'll have to reboot after you make this change.

2.3 Disable IPv6

IPv6 is the latest address protocol that will eventually replace IPv4. Windows Server 2012 kept this protocol enabled by default, but it is also a fact that IPv6 is not yet common and many software, routers, modems, and other network equipment do not support it yet. So it may be a wise approach to disable it for now. Also by turning off it will facilitate the process of detecting which port certain application are listening.

IPv6 can be disabled either through the "DisabledComponents" registry value or through the check box for the Internet Protocol Version 6 (TCP/IPv6) component in the list of items on the Networking tab for the properties of connections in the Network Connections folder. The following figure shows an example:

Ethernet Properties	x		
Networking Sharing			
Connect using:			
Microsoft Hyper-V Network Adapter			
Configure			
This connection uses the following items:			
Client for Microsoft Networks Gas Packet Scheduler File and Printer Sharing for Microsoft Networks Alcrosoft Network Adapter Multiplexor Protocol Alcrosoft Network Adapt			
Install Uninstall Properties			
Description TCP/IP version 6. The latest version of the internet protocol that provides communication across diverse interconnected networks.			
OK Cance	el l		

2.4 Turn off Internet Explorer Enhanced Security Configuration (optional)

Internet Explorer Enhanced Security Configuration established a configuration for your server and for Microsoft Internet Explorer that decreases the exposure of your server to potential attacks that can occur through Web content and application scripts. As a result, some Web sites may not display or perform as expected.

IMPORTANT NOTE: This step is option and <u>I only suggest to do this in development environments</u>. For some clients in production environments this features can be very important and don't want to disable.

By default, Internet Explorer Enhanced Security Configuration is enabled on Windows Server 2012 and can be configured through Server Manager.

To disable Internet Explorer Enhanced Security Configuration (IE ESC) in Windows Server 2012

• Start by running the "Server Manager" from either the "Start Screen" or the Desktop.



• In the Server Manager Dashboard, click on "Local Server" on the left side.

2		Server Manager		. 0 x
Server Ma	anager • Local Serve	r ·	🗊 🎢 Manage Tools Vie	w Help
🕅 Dashboard	PROPERTIES For WIN-8IK0F00SAT2		TAS	KS 💌
I Local Server OOSAT2 Last installed updates Today at 14:49 III All Servers UP Windows Update Install updates autor III File and Storage Services Last checked for updates Today at 15:14		Today at 14:49 Install updates automatically using Windows U Today at 15:14	ipdate =	
		Windows Error Reporting Customer Experience Improvement Program IE Enhanced Security Configuration	Off Not participating On	
	ss assigned by DHCP, IPv6 enabled	Time zone Product ID	(UTC) Dublin, Edinburgh, Lisbon, London 00184-20405-05471-AA376 (activated)	
	Windows Server 2012 Standard Corporation Virtual Machine	Processors Installed memory (RAM) Total disk space	Intel(R) Core(TM) i5 CPU M 480 @ 2.67GH 4 GB 126.66 GB	lz.
	<		818	>

• In the Server Properties for the "Local Server", you'll see the option for "IE Enhanced Security Configuration". Click "On" to change the option.



- A dialog box appears, letting Internet Explorer Enhanced Security Configuration be enabled/disable separately for normal users and administrators, turn off both. After disable both options, click "OK".
- Click the Refresh button at the top of the Server Manager and the "IE Enhanced Security Configuration" should now show as "Off"

2.5 Disable User Account Control (optional)

User Account Control (UAC) is a security component that allows an administrator to enter credentials during a nonadministrator's user session to perform occasional administrative tasks.

IMPORTANT NOTE: This step is option and <u>I only suggest to do this in development environments</u>. For some clients in production environments this features can be very important and don't want to disable.

Whenever you need to configure a Windows Server 2012 setting, even if you are logged on as the administrator - you need elevated privileges. This is by design, and part of the fierce security initiative in Windows Server 2012. Before you can complete any administrative task, the User Account Control manager pops-up with a 'Continue' message.

To Disable User Account Control (UAC):

- Press the "Windows key" to switch to Start screen.
- Type "Change User Account Control Settings" or "UAC" and click in "Change User Account Control Settings" option on Settings menu.

Settings Results for "UAC"	Search Settings UAC X P		
Change User Account Control settings	Apps 0		
	Files 0		

• Select "Never notify me when..." to disable UAC.



•		User Account Control Settings	_ D X
Choose User Acco Tell me m Alway	when to be unt Control he ore about User s notify	e notified about changes to your computer <u>lps prevent potentially harmful programs from making changes to y</u> <u>Account Control settings</u>	your computer.
- -	-	 Never notify me when: Apps try to install software or make changes to my computer I make changes to Windows settings 	
-		1 Not recommended.	
Never	notify	€ OK	Cancel

2.6 Turn Windows Firewall off (optional)

I always advise you to turn Windows Firewall on BizTalk Server development environments unless there are specific reasons for not doing that.

IMPORTANT NOTE: This step is option and <u>I only suggest to do this in development environments</u>. For some clients in production environments this features can be very important and don't want to turn off. However, in many scenarios, these machines are not exposed to the outside and even if this occurs, they can be "protected" by the own network infrastructure, and in such cases may not require that the Windows Firewall be turn on.

To turn Windows Firewall off:

- Press the "Windows key" to switch to Start screen.
- Type "Windows Firewall" and click in "Windows Firewall" option on Settings menu.

Settings Results for "windows firewall"	Search Settings
Windows Firewall	windows firewall × P
Allow an app through Windows Firewall Check security status	Settings 3
	Files 0
	Internet Explorer

Select "Turn Windows Firewall on or off" option



	Windows Firewall			
	🕥 🕤 🛧 🕋 k Control Pa	nel 🕨 System and Security 🕨 Windows Fi	ewall	
	Control Panel Home	Help protect your PC with Win	dows Firewall	
	Allow an app or feature through Windows Firewall	Windows Firewall can help prevent hackers or malicious software from gaining access to your PC through the Internet or a network.		
•	Change notification settings	Update your Firewall settings		
8	Turn Windows Firewall on or off	Windows Firewall is not using the settings to protect your computer	recommended	
•	Restore defaults	What are the recommended settin	qs?	
0	Advanced settings		-	
	Troubleshoot my network	Private networks	Not connected (\odot
		Guest or public netwo	ks Connected (\odot
		Networks in public places such as airports or coffee shops		
		Windows Firewall state:	Off	
		Incoming connections:	Block all connections to apps that are not on the list of allowed apps	t
		Active public networks:	Network	
			Unidentified network	
		Notification state:	Do not noti <mark>fy</mark> me when Windows Firewall blocks a new app	

And select the option "Turn off Windows Firewall (not recommended)" in both settings

Customize Settings		x
(€) ♥ ↑ 🔐 « Windows Firewall ➤ Customize Settings ∨ C	1	P
Customize settings for each type of network		
You can modify the firewall settings for each type of network that you use.		
Private network settings		
 Turn on Windows Firewall Block all incoming connections, including those in the list of allowed apps Notify me when Windows Firewall blocks a new app 		
 Turn off Windows Firewall (not recommended) 		
Public network settings		
👩 🛛 Turn on Windows Firewall		
Block all incoming connections, including those in the list of allowed apps		
Notify me when Windows Firewall blocks a new app		
Turn off Windows Firewall (not recommended)		
OK Cancel		

2.7 Configure the Application Event Log

BizTalk Server setup keeps a record of events in the Application Event Log. Depending on the BizTalk Server features installed, the amount of space required in the log may exceed its limit. If the application event log runs out of space during BizTalk Server setup, the installation will fail. To prevent this from happening, you can change the settings in the Application Event Log.

To change settings in the Application Event Log:



- Press the "Windows key" to switch to Start screen.
- Type "Event Viewer" and click in "Event Viewer" option on Apps menu.

Apps Results for "event"	Search Apps event × P
	Apps 1
	Settings 1
	Files 0

- In the Event Viewer, expand Windows Logs.
- Right-click "Application", and then click "Properties". This opens the Log Properties dialog box.



- To see how much available space your log has, compare the Log Size field with the Maximum log size field.
- To provide more space in the event log, enter a higher number in the Maximum log size field.
- To enable overwriting of old events when the log becomes full, select Overwrite events as needed.
- To clear the log events, click "Clear Log".
- I recommended that:
 - You leave the default value of the maximum log size (KB): 20480
 - And ensure that the option "Overwrite events as needed (oldest events first)" is select

	Log Properties - Application (Type: Administrative)
General Subscri	iptions
Full Name:	Application
Log path:	%SystemRoot%\System32\Winevt\Logs\Application.evtx
Log size:	1,07 MB(1 118 208 bytes)
Created:	29 de abril de 2013 12:56:41
Modified:	29 de abril de 2013 14:54:01
Accessed:	29 de abril de 2013 12:56:41
✓ Enable logg	ging
Maximum log	g size (KB): 20480 ×
When maxim	um event log size is reached:
Overw	rite events as needed (oldest events first)
 Archive 	e the log when full, do not overwrite events
O Do not	overwrite events (Clear logs manually)
	Clear Log
	OK Cancel Apply

• Click "OK", to close the Event Viewer.

2.8 Install Critical Windows Updates

Before installing BizTalk Server or its prerequisites, make sure you have installed the latest critical Windows updates from Microsoft. As a best practices, you also should run Microsoft Baseline Security Analyzer that will provide a streamlined method to identify missing security updates and common security misconfigurations.

To install Windows updates:

- Press the "Windows key" to switch to Start screen.
- Type "Windows Update" and click in "Install optional updates" option on Settings menu.

Settings Results for "windows update"	Search Settings
Install optional updates Image: View update history	Apps 0
View installed updates	Settings 4
	Internet Explorer

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Click "Check for updates" and if exist new updates available, install them



If prompted, restart your computer

To use the Microsoft Baseline Security Analyzer to scan for updates and patches

- Download MBSA from the Microsoft Download center, and then install it to the default directory
- Press the "Windows key" to switch to Start screen.
- Type "Microsoft Baseline Security Analyzer" and click in "Microsoft Baseline Security Analyzer" option on Apps menu.
- On the main screen click "Scan a computer" option



 On the "Which computer do you want to scan?" screen, make sure that the following options are not selected, and then click "Start scan".

- Check for Windows administrative vulnerabilities
- Check for weak passwords
- Check for IIS administrative vulnerabilities
- Check for SQL administrative vulnerabilities

\$		Microsoft Baseline Security Analyzer 2.2	_ 🗆 X
30	Baseline Secu	ırity Analyzer	Microsoft
	Which computer	do you want to scan?	
	Enter the name of the comput	er or its IP address.	
	Computer name:	WORKGROUP\BTS2013LAB01 V (this computer)	
	IP address:		
	Security report name:	%D% - %C% (%T%)	
		%D% = domain, %C% = computer, %T% = date and time, %IP% = IP address	
	Options:		
	Check for Windows a	administrative vulnerabilities	
	Check for weak pass	words	
	Check for IIS adminis	strative <u>v</u> ulnerabilities	
	Check for SQL admin	istrative vulnerabilities	
	Check for security up	odates	
	Configure compu	tters for Microsoft Update and scanning prerequisites	
	Advanced Updat	e services gotions:	
	Scan using a	issigned windows server opdate services(woos) servers only	
	Scan using o	ffine catalog only	
	O bear doing o	The carding of the	
		Start Scan	Cancel
		<u>D</u> tait Ocan	Joancer

3. Preparing and install prerequisites for BizTalk Server 2013

This part of the article will focus on installing the BizTalk prerequisites and operate the necessary configuration on BizTalk Server machine.

Before installing BizTalk Server or its prerequisites, make sure you have installed the latest critical Windows updates from Microsoft.

3.1 Important considerations before set up the server

Check if all the considerations described above are implemented:

- Join the Local Administrators Group
- Change the Machine name
- Disable IPv6
- Turn off Internet Explorer Enhanced Security Configuration
- Disable User Account Control
- Turn Windows Firewall off
- Configure the Application Event Log
- Install Critical Windows Updates

3.2 Enable Internet Information Services

Microsoft Internet Information Services (IIS) provides a Web application infrastructure for many BizTalk Server features. BizTalk Server requires IIS for the following features:

- HTTP adapter
- SOAP adapter
- Windows SharePoint Services adapter
- Secure Sockets Layer (SSL) encryption
- BAM Portal

To install IIS 8, use the following steps:

- Open "Server Manager".
- Under "Manage" menu, select "Add Roles and Features" (or press "Add roles and features" under the Dashboard panel)



On the Before You Begin screen, click "Next"



On the Installation Type screen, select "Role-based or feature-based installation" and click "Next"

a	Add Roles and Features Wizard	-		×
Select installatio	n type desti	NATIOI IN-8IKC	N SERV FOOSA	ER T2
Before You Begin	Select the installation type. You can install roles and features on a running physical comp machine, or on an offline virtual hard disk (VHD).	uter c	r virtu	ıal
Server Selection	Role-based or feature-based installation Configure a single server by adding roles, role services, and features.			
Features Confirmation Results	Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual or session-based desktop deployment.	machi	ne-ba	sed
	< Previous Next > Install	(ancel	1

- On the Server Selection screen, select the appropriate server, leave the default options and click "Next"
 - Select a server from the server pool
 - local is selected by default

b	Add Roles and Features	s Wizard	×
Select destination	on server	DESTINATION SERVER BTS2013LAB01	
Before You Begin Installation Type Server Selection	Select a server or a virtual hard disk on white Select a server from the server pool Select a virtual hard disk	ch to install roles and features.	
Server Roles Features Confirmation	Server Pool		
Results	Name IP Address BTS2013LAB01 192.168.1.99	Operating System Microsoft Windows Server 2012 Standard	
	1 Computer(s) found This page shows servers that are running W Add Servers command in Server Manager. O collection is still incomplete are not shown.	Vindows Server 2012, and that have been added by using the Offline servers and newly-added servers from which data	
	< F	Previous Next > Install Cancel]

- On the Server Roles screen, select "Web Server (IIS)" option
 - If prompted, click "Add Features", and then click "Next"

Select server roles		
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation	elect one or more roles to install on the selected server. oles Active Directory Rights Management Services Application Server DHCP Server DNS Server Fax Server Elie And Storane Services (Installed)	DESTINATION SERVER BTS2013LAB01 Description Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
Confirmation Results		

- On the Features screen, no additional features are needed for IIS, however, in addition to the default values, we will need or should select the following options:
 - .Net Framework 3.5 Features
 - SMTP Server (If prompted, click "Add Features") optional
 - Windows Identity Foundation 3.5 optional: Windows Identity Foundation (WIF) is required for the SharePoint Services adapter or SharePoint Online when used with SharePoint Services Client Side Object Model (CSOM).



- Then click "Next"
- On the Web Server Role (IIS) screen, click "Next"
- On the Role Services screen under Web Server Role (IIS), we will customize our installation of IIS with the following
 options:

- Common HTTP Features
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - Static Content
- Health and Diagnostics
 - Http Logging
 - Logging Tools
 - ODBC Logging
 - Request Monitor
 - Tracking
- Performance
 - Static Content Compression
 - Dynamic Content Compression

- Security
 - Request Filtering
 - Basic Authentication
 - Digest Authentication
 - Windows Authentication
- Application Development
 - Select all options
- Management Tools
 - IIS Management Console
 - IIS 6 Management Compatibility
 - IIS 6 Metabase Compatibility
 - IIS 6 Management Console
 - IIS 6 Scripting Tools
 - IIS 6 WMI Compatibility

- Then click "Next"
- On the Confirmation screen, click "Install"





- When the IIS installation completes, the wizard reflects the installation status on the Results screen
- Click "Close" to exit the wizard.

3.2.1 Running the BAM Portal in a 64-bit Environment

BAM Portal runs only runs on a 32-bit mode. If you are using Internet Information Services (IIS) in a 64-bit environment, you must set IIS to 32-bit mode to run the BAM portal. To do this, follow these steps:

- Open a command prompt and run the adsutil command. To do this, Press the "Windows key" to switch to Start screen and type "cmd" and click in "Command Prompt" option on Apps menu.
- Type the following at the command prompt: cscript c:\inetpub\adminscripts\adsutil.vbs SET W3SVC/AppPools/Enable32bitAppOnWin64 1
- Close the command prompt.

Or:

- Press the "Windows key" to switch to Start screen.
- Type "Internet Information Services (IIS) Manager" or "IIS" and click in "Internet Information Services (IIS) Manager" option on Apps menu.
- Expand the server and click on "Application Pools" to display available application pools in center panel.
- Right-click on 'DefaultAppPool' and select "Advanced Settings".

File View Help								
Connections							Ac	tions
🔍 - 📊 🖄 😽		ion Po	OIS					Add Application Pool
Start Page	This page lets you view and manage the list of application pools on the server. Application pools are							
Annlication Book	associated with worke	r processe	s, contain one oi	r more applications	, and provide isolation	among different		Application Pool Tasks
Sites	applications.							Start
	Filter:	- 7	🖉 Go 👒 🕁 Sho	w All Group by:	No Grouping	•		Stop
	Name 📩	Status	.NET Fram	Managed Pipel	Identity	Applications	2	Recycle
	.NET v2.0	Started	v2.0	Integrated	ApplicationPoolld	0		Edit Application Pool
	.NET v2.0 Classic	Started	v2.0	Classic	ApplicationPoolld	0		Basic Settings
	.NET v4.5	Started	v4.0	Integrated	ApplicationPoolld	0		Recycling
	.NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolld	0		Advanced Settings
	🔊 Classic .NET Ap	Started	v2.0	Classic	ApplicationPoolld	0		Rename
	🔯 DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolld	1		Pamaya
							^	Nemove

Change the value of 'Enable 32-bit Applications' from False to True. Click "OK".

4	(General)		^
	.NET Framework Version	v4.0	
	Enable 32-Bit Applications	True 🗸	
	Managed Pipeline Mode	Integrated	
	Name	DefaultAppPool	=
	Queue Length	1000	
	Start Automatically	True	
	Start Mode	OnDemand	_
₫	CPU		
	Limit (1/1000 of %)	0	
	Limit Action	NoAction	
	Limit Interval (minutes)	5	
	Processor Affinity Enabled	False	
	Processor Affinity Mask	4294967295	
	Processor Affinity Mask (64-bit of	4294967295	
₫	Process Model		
Þ	Generate Process Model Event L		
	Identity	ApplicationPoolIdentity	
	Idle Time-out (minutes)	20	\sim
er op	able 32-Bit Applications hable32BitAppOnWin64] If set to t erating system, the worker proces in WOW64 (Windows on Window	rue for an application pool on a 64-bi ss(es) serving the application pool wil vs64) mode. Processes in WOW64 mo	it

3.3 Install Windows Identity Foundation (WIF)

In the previous step "Enable Internet Information Services" I mentioned that we should install the Windows Identity Foundation 3.5 feature, why?

If we plan to use/configure SharePoint Services adapter or SharePoint Online when used with SharePoint Services Client Side Object Model (CSOM), then Windows Identity Foundation (WIF) feature is required.

WIF is required if you are planning to use:

- SharePoint Services Adapter with CSOM
- SharePoint Online with CSOM

WIF is not required if you are planning to use:

- SharePoint Services Adapter Web Service (deprecated)
- No plan to use SharePoint

Windows Identity Foundation is included with the operating system (Windows 8 and Windows Server 2012) as a Feature in Turn Windows features on or off. (if you plan to use Windows 7 and Windows Server 2008 R2 the download is available here <u>Windows Identity Foundation</u>):

If you didn't previous install WIF then you should following this steps:

- Open "Server Manager".
- Under "Manage" menu, select "Add Roles and Features" (or press "Add roles and features" under the Dashboard panel)
- On the Before You Begin screen, click "Next"
- On the Installation Type screen, select "Role-based or Feature-based Installation" and click "Next"
- On the Server Selection screen, select the appropriate server, leave the default options and click "Next"



- On the Server Roles screen, click "Next"
- On the Features screen, select "Windows Identity Foundation 3.5" and click "Next"

ð	Add Roles and Features Wizard	
Select features		DESTINATION SER BTS2013LA
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more features to install on the selected server. Features Telnet Client Telnet Server TFTP Client User Interfaces and Infrastructure (Installed) Windows Biometric Framework Windows Feedback Forwarder Windows Identity Foundation 3.5 Windows Internal Database Windows PowerShell (Installed)	Description Windows Identity Foundation (W 3.5 is a set of .NET Framework classes that can be used for implementing claims-based iden in your .NET 3.5 and 4.0 applicati WIF 3.5 has been superseded by classes that are provided as part of .NET 4.5. It is recommended th you use .NET 4.5 for supporting claims-based identity in your applications.
	 Windows Process Activation Service Windows Search Service Windows Server Backup Windows Server Migration Tools Windows Standards-Based Storage Management V 	
he Confirmation screen	<pre>< Previous Next > select "Restart the destination server automatically</pre>	Install Canc
the Confirmation screen,	<pre>< Previous Next > select "Restart the destination server automatically Add Roles and Features Wizard</pre>	if required" and click "In
the Confirmation screen, Confirm installat	<pre>< Previous Next > select "Restart the destination server automatically Add Roles and Features Wizard ion selections</pre>	if required" and click "In DESTINATION SERVER BTS2013LABOT
the Confirmation screen,	< Previous Next > select "Restart the destination server automatically Add Roles and Features Wizard ion selections To install the following roles, role services, or features on selected set ✓ Restart the destination server automatically if required Optional features (such as administration tools) might be displayed of been selected automatically. If you do not want to install these option their check boxes. Windows Identity Foundation 3.5	if required" and click "In if required" and click "In DESTINATION SERVER BTS2013LABOT rver, click Install. on this page because they have anal features, click Previous to clea

- When the installation completes, the wizard reflects the installation status on the Results screen
- Click "Close" to exit the wizard.

3.4 Install and configure SMTP Server Feature

Again in the previous step "Enable Internet Information Services" I mentioned that we should install the SMTP Server feature, why?

If you wish to configure BAM Alerts, you must have configured SQL Server Database Mail feature (we will see how to accomplish that afterwards) and I will intend to configure this features using your local SMTP Server.

NOTE: This type of configuration is optional and you don't need to install the local SMTP Server, you can configured SQL Server Database Mail feature using an external SMTP.

If you didn't previous install SMTP Server then you should following this steps:

- Open "Server Manager".
- Under "Manage" menu, select "Add Roles and Features" (or press "Add roles and features" under the Dashboard panel)
- On the Before You Begin screen, click "Next"
- On the Installation Type screen, select "Role-based or Feature-based Installation" and click "Next"
- On the Server Selection screen, select the appropriate server, leave the default options and click "Next"
- On the Server Roles screen, click "Next"
- On the Features screen, select "SMTP Server" and click "Next"
 - If prompted, click "Add Features", and then click "Next"
- On the Confirmation screen, select "Restart the destination server automatically if required" and click "Install":
- When the installation completes, the wizard reflects the installation status on the Results screen
- Click "Close" to exit the wizard.

To configure the SMTP Server you should following this steps:

 Press the "Windows key" to switch to Start screen and type "IIS 6.0 Manager" and click in "Internet information Services (IIS) 6.0 Manager" option on Apps menu.



• Right click on the SMTP Server ([SMTP Virtual Server #1]) and select "Properties" to open the properties window

5	Internet Information Services (IIS) 6.0 Manager
🐚 File Action View Window Help	
🗢 🔿 📶 🗐 🖬 🛃 🖿 🔸	
Internet Information Services	Name
⊿ STS2013LAB01 (local computer)	🏂 Domains
	Current Sessions
📚 D Start	
🖸 C Stop	
Pause	
New	•
View	•
New Window from Here	
Rename	
Refresh	
Export List	
Properties	
Help	

NOTE: For the purpose of this installation, we will assume that email only can be generated from this machine. If the application that generates the email runs on a separate server, you need to grant relaying access for that server in IIS SMTP.

• On the Properties windows, click on the "Access" tab and click "Relay..." under "Relay restrictions"

[SMTP Virtual Server #1] Properties 2				
General Access Messages Delivery LDAP Routing Security				
Access control Edit the authentication methods for this resource.				
Secure communication TLS is not available without a certificate.				
Connection control Grant or deny access to this resouce using IP addresses or Internet domain names.				
Relay restrictions Grant or deny permissions to relay e-mail through this SMTP virtual server.				
OK Cancel Apply Help				

• On Rely Restrictions windows, click" Add ... "

	Relay Restrictions	x				
Select which computer n	Select which computer may relay through this virtual server:					
Only the list below	9					
O All except the list	below					
Computers:						
Access	IP Address (Mask) / Domain Name					
<u>A</u> dd <u>R</u> ei	move					
Allow all computers v	which successfully authenticate to relay, regardly	899				
of the list above.						
		—				
	OK Cancel <u>H</u> elp					

- On Computer window, enter 127.0.0.1 for the address and then click "OK"
 - The Connection setting controls which computers can connect to the SMTP server and send mail. By granting only localhost (127.0.0.1) access limits only the server itself the ability to connect to the SMTP server. This is a requirement for security, it prevents the SMTP server from being an open relay and being used to send unsolicited spam email by other computers on the internet, which could lead to the SMTP server being blacklisted.

	Relay Restrictions X			
Select which computer may relay through this virtual server:				
Only the list below	N			
O All except the list	below			
Computers:				
Access	IP Address (Mask) / Domain Name			
Granted	127.0.0.1			
Add Re	move			
Allow all computers which successfully authenticate to relay, regardless of the list above.				
	OK Cancel Help			

• On the Properties windows, click on the "Delivery" tab and click "Outbound Security..."

[SMTP Virtual Server #	1] Properties ? ×			
General Access Messages Delivery LD	AP Routing Security			
Outbound				
First retry interval (minutes):	15			
Second retry interval (minutes):	30			
Third retry interval (minutes):	60			
Subsequent retry interval (minutes):	240			
Delay notification:	12 Hours 💌			
Expiration timeout:	2 Days 💌			
Local				
Delay notification:	12 Hours 💌			
Expiration timeout:	2 Days 💌			
Outbound Security Outbound connections Advanced				
OK Cancel	Apply Help			

- On the Outbound Security windows, select "Basic authentication" and enter the login credentials you use for your Exchange or personal account (Gmail, Live and so on). Click "OK" to continue.
 - If required, enable "TLS encryption"
 - This will be the account that will transmitted the emails.

	Outbound Security	x
C Anonymous access		
No user name or pas	sword required.	
Basic authentication	1	
The password will be commands.	e sent over the network in clear text	using standard
User name:	sandro.pereira@	Browse
Password:		
O Integrated Windows	Authentication	
The client and serve Interface.	r negotiate the Windows Security S	upport Provider
Account:		Browse
Password:	******	
TLS encryption		
	OK Cancel	Help

• On the Outbound Security windows, click "Advanced..." Enter the SMTP server URL you got in the previous step in the Smart host edit box and then click "OK" to continue.

Advanced Delivery
Maximum hop count:
Masquerade domain:
Fully-qualified domain name:
btslab.com Check DNS
Smart host:
auth
Attempt direct delivery before sending to smart host
Perform reverse DNS lookup on incoming messages
OK Cancel Help

- On the Outbound Security windows, click on "Outgoing connections..." and set the port of your server
 - Limit number of connections to: When the check box is selected, this option specifies the total number of simultaneous outbound connections to all remote domains that can exist at one time. The default is 1,000 connections. The minimum is 1.
 - Time-out (minutes): Specifies the time allowed before an inactive connection is closed. The default is 10 minutes.
 - Limit number of connections per domain to: When the check box is selected, this option limits connections to any single remote domain. The default is 100 connections. This number should be less than or equal to the value for the Limit number of connections to option.
 - TCP port: Designates the TCP port used for outgoing transmissions. The default is port 25. The outgoing port setting can be the same as that for incoming transmissions or it can be different.

Outbound Connections	x
☑ Limit number of connections to:	1000
Time-out (minutes):	10
☑ Limit number of connections per domain to:	100
TCP port:	25
OK Cancel	Help

- Click "Ok" twice to apply the settings on the SMTP local server
- Right-click SMTP Virtual Server #1 again, and then restart the service to pick up the new configuration.

3.4.1 Verify Your Installation

The next step is to verify if the SMTP is successful configured by using the simple Telnet Client, however Telnet Client is not installed by default on Windows Server 2012.

To install Telnet Client by using a command line

- Open a command prompt window., Press the "Windows key" to switch to Start screen and type "cmd" and click in "Command Prompt" option on Apps menu.
- Type the following command:
 - o pkgmgr /iu:"TelnetClient"
 - If the User Account Control dialog box appears, confirm that the action it displays is what you want, and then click Continue.

To send a test email:

- Open a command prompt window. , Press the "Windows key" to switch to Start screen and type "cmd" and click in "Command Prompt" option on Apps menu.
- Type the following sequence of command:
 - o telnet localhost 25
 - Helo serevr
 - o mail from:email
 - o rcpt to:email
 - o data
 - o put the body of the email message

Telnet localhost		x	
220 BTS2013LAB01 Microsoft ESMTP MAIL Service, Version: 8.0.9200.1638 Thu, 9 May 2013 15:16:07 +0100 HELO server 250 BTS2013LAB01 Hello [127.0.0.1] aail from:sandro.pereira@ .netSender OK	4 read	yat ,	< III
rept to:sandro.pereirad 250 2.1.5 sandro.pereirad data 54 Start mail input; end with (CRLF).(CRLF) Test email body			
250 2.6.0 〈BTS2013LAB01wSA1Xvp000000040BTS2013LAB01〉 Queued mail for	delive	ry	
			~

3.5 Install Microsoft Office Excel 2013

Microsoft Office Excel is required for using the Business Activity Monitoring (BAM) feature in BizTalk Server. You use the BAM Office Excel Workbook to define the business processes you want to monitor. You also use the BAM Excel Workbook to define the way in which business users see the data collected by BAM.

Note: BizTalk Server 2013 supports only 32-bit version of Microsoft Office.

NOTE: if you are not considering to use BAM features, then you don't need to install Microsoft Office Excel.

The following procedure installs only Microsoft Office Excel. You can install additional Microsoft Office system applications and tools if you wish, but they are not necessary to complete the installation of BizTalk Server.

NOTE: To successfully load BAM.xla into Excel, install the "VISUAL BASIC FOR APPLICATIONS" option under "OFFICE SHARED FEATURES". Otherwise, you may get the error "This workbook has lost its VBA project, ActiveX controls and any other programmability-related features."

To install Microsoft Office Excel:

- Insert the Microsoft Office installation disk into the DVD-ROM drive.
- On Read the Microsoft Software License Terms screen, select "I accept the terms of this agreement" and click "Continue"

0	Microsoft Office Professional Plus 2013	x
	Read the Microsoft Software License Terms	0
	To continue you must accept the terms of this agreement. If you do not want to accept the Microsoft Software License Terms, close this window to cancel the installation.	
	PLEASE NOTE: Your use of this software is subject to the terms and conditions of the license agreement by which you acquired this software. For instance, if you are:	
	 a volume license customer, use of this software is subject to your volume license agreement. a MSDN customer, use of this software is subject to the MSDN agreement. 	
	You may not use this software if you have not validly acquired a license for the software from Microsoft or its licensed distributors.	
	EULAID:015_RTM_VL.1_RTM_EN	
	✓ I accept the terms of this agreement <u>C</u> ontinue	

• On the Type of Installation screen, select Custom Install, and then click "Next".

0	Microsoft Office Professional Plus 2013	x
	Choose the installation you want	0
	Please choose your preferred type of Microsoft Office Professional Plus 2013 installation below.	
	Install Now	
	C <u>u</u> stomize	

- On the Custom Setup screen, ensure that:
 - Microsoft Excel option is selected.
 - And "Visual Basic for Applications" option under Office Shared Features is select.





Components to support creating, editing and executing VBA macros in Office applications. Total space required on drive: 2,18 GB Space available on drive: 109,38 GB

- And then click "Install Now".
- On the Setup Completed screen, click "Finish".

After installing the office Excel and tools I like to do a Windows update, this step is not necessary.

3.6 Install Visual Studio 2012

The BizTalk Server development tools are based on Visual Studio. And like previous versions, at a minimum, you must have the Microsoft Visual C#[®] .NET component of Visual Studio installed on your computer if you wish to install the BizTalk Server Developer Tools and SDK component.

NOTE: Visual Studio 2012 is not required if you are installing BizTalk Server on a production computer (runtime only), on which no application development or debugging is required to be done.



The BizTalk Server runtime components require .NET Framework 4.5. In addition, the .NET Framework 3.0 is required if the Windows Communication Foundation (WCF) adapter or WCF Interceptor is installed.

However, unlike previous versions of Visual Studio and the official documentation, with Visual Studio 2012 you cannot customize the features to install to the point of only install Visual C#, at least that I know of.

To install Visual Studio 2012:

- Insert the Visual Studio 2012 installation disk into the DVD-ROM drive.
- On the Start page, accept the license agreement by selecting "I agree to the License terms and conditions" and then click "Next".



- On the Optional features to install page, you can clear all features, however I think that is important at least to
 install "Microsoft Web Developer Tools". Add the following features to your installation:
 - Microsoft Web Developer Tools
 - Microsoft Office Developer Tools (not required)



- And then click "Install"
- On the Finish page, close the window or click "Launch".



IMPORTANT NOTE: Your version of Visual Studio **WILL INCLUDE MICROSOFT SQL SERVER EXPRESS OR COMPACT** as an optional feature. This feature it may cause BizTalk Server setup to fail and should not be installed but as we cannot customize the Visual Studio 2012 installation, we should remove this features afterwards.

3.6.1 Remove Microsoft SQL Server Express

As I say previous your version of Visual Studio WILL INCLUDE MICROSOFT SQL SERVER EXPRESS OR COMPACT AS an optional feature. This feature it may cause BizTalk Server setup to fail and should not be installed but as we cannot customize the Visual Studio 2012 installation, it's very important that we remove this features.



To avoid futures complications I choose to uninstall this two features:

- Microsoft SQL Server 2012 Express LocalBd
- Microsoft SQL Server Compact 4.0 SP1 x4 ENU: Microsoft SQL Server Compact 4.0 is a free, embedded database that software developers can use for building ASP.NET websites and Windows desktop applications. SQL Server Compact 4.0 has a small footprint and supports private deployment of its binaries within the application folder, easy application development in Visual Studio and WebMatrix, and seamless migration of schema and data to SQL Server

To uninstall this features:

- Press the "Windows key" to switch to Start screen.
- Type "Programs and Features" and click in "Programs and Features" option on Settings menu.

Settings Results for "programs and featu	Search Settings	
Programs and Features	programs and features X	
	Apps	0
	Settings	1
	Files	0
	Internet Explorer	

Select "Microsoft SQL Server 2012 Express LocalBd" and click "Uninstall".

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Organize 🕶 Uninstall Change Repair				:==	- 🕜
Name 🔺	Publisher	Installed On	Size	Version	
🔀 Microsoft ASP.NET Web Pages	Microsoft Corporation	30/04/2013	2,08 MB	1.0.20105.0	
🛱 Microsoft Help Viewer 2.0	Microsoft Corporation	30/04/2013	12,1 MB	2.0.50727	
1 Microsoft Office Professional Plus 2013	Microsoft Corporation	29/04/2013		15.0.4420.1017	
🥪 Microsoft Silverlight	Microsoft Corporation	30/04/2013	35,4 MB	5.1.10411.0	
Microsoft SQL Server 2012 Command Line Utilities	Microsoft Corporation	30/04/2013	2,38 MB	11.0.2100.60	
📄 Microsoft SQL Server 2012 Data-Tier App Framewo	ork Microsoft Corporation	30/04/2013	23,5 MB	11.0.2316.0	
Microsoft SQL Server 2012 Data-Tier App Framework	ork Microsoft Corporation	30/04/2013	23,5 MB	11.0.2316.0	
Microsoft SQL Server 2012 Express LocalDB	Microsoft Corporation	30/04/2013	157 MB	11.0.2100.60	
Microsoft SQL Server 2012 Management Objects	Microsoft Corporation	30/04/2013	24,9 MB	11.0.2100.60	
Microsoft SQL Server 2012 M	ft SOL Server 2012 Express Lo	calDB	18,2 MB	11.0.2100.60	
Microsoft SQL Server 2012 Na	11 SQL SCIVEI 2012 EXPICISE LO	Carbo	9,70 MB	11.0.2100.60	
Microsoft SQL Server 2012 Tr	while Windows configures Microsoft SQL	Server 2012	87,4 MB	11.0.2100.60	
Microsoft SQL Server 2012 Tr	alDB		4,52 MB	11.0.2100.60	
Microsoft SQL Server 2012 T-			6,13 MB	11.0.2100.60	
🛱 Microsoft SQL Server Data To 🛛 Gathering required i	nformation		14,4 MB	11.1.20627.00	
🕼 Microsoft SQL Server Data To		Cancel	1,32 MB	11.1.20627.00	
Microsoft SQL Server System		Carloci	2,53 MB	10.50.1600.1	
Microsoft SQL Server System	тегозон согронатон	50/04/2015	3,13 MB	10.50.1600.1	
Microsoft System CLR Types for SQL Server 2012	Microsoft Corporation	30/04/2013	2,30 MB	11.0.2100.60	
📄 Microsoft System CLR Types for SQL Server 2012 (;	(64) Microsoft Corporation	30/04/2013	2,76 MB	11.0.2100.60	
B Microsoft Visual Studio 2010 Tools for Office Runt	ime Microsoft Corporation	30/04/2013		10.0.31125	
Microsoft Visual Studio Premium 2012	Microsoft Corporation	30/04/2013	5,12 GB	11.0.50727.1	
Microsoft Visual Studio Ultimate 2012	Microsoft Corporation	30/04/2013	5,20 GB	11.0.50727.1	
🏘 Microsoft Web Deploy 3.0	Microsoft Corporation	30/04/2013	16,1 MB	3.1236.1631	
🛱 Microsoft Web Deploy dbSqlPackage Provider - er	u Microsoft Corporation	30/04/2013	32,0 KB	10.3.20225.0	
Microsoft Corporation Product version	on: 11.0.2100.60 Size: 1	57 MB			
Help li	nk: <u>http://go.microsoft.c</u>				



• Repeat the process, select "Microsoft SQL Server Compact 4.0 SP1 x4 ENU" and click "Uninstall".

3.7 Install SQL Server 2012

BizTalk Server provides the capability to specify a business process and also a mechanism by which the applications used in that business process can communicate with each other. SQL Server is the main repository for this communication mechanism. For optimal performance, Microsoft recommends using the Enterprise Edition of SQL Server.

NOTE: Using SQL Server Express Edition is not recommended or supported. The Express edition does not include certain features needed by BizTalk Server.

To install SQL Server 2012:

- Insert the SQL Server installation disk into the DVD-ROM drive. The setup program will begin automatically. If prompted for automatic installation of prerequisite software, click "OK"
- On the SQL Server Installation Center, click "Installation" and then click "New SQL Server stand-alone or add features to an existing installation"



On the Setup Support Rules screen, review the information and then click "OK"
1	SQL Server 2012 Setup	_ 🗆 X
Setup Support Rules		
Setup Support Rules identify p corrected before Setup can co	problems that might occur when you install SQL Server Setup support files. Failures must be	
Setup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.	
	Show details >> View detailed report	Re-run
	OK	Cancel

• On the Product Key screen, enter your product key and click "Next"

1	SQL Server 2012 Setup	x
Product Key Specify the edition of SQL Serve	er 2012 to install.	
Product Key License Terms Product Updates Install Setup Files	Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, su as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQ Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard. O Specify a free edition: Evaluation Evaluation • Evaluation • Evaluation	th ■
	< Back Next > Can	cel

• On the License Terms screen, select "I accept the license terms", and then click "Next"

1	SQL Server 2012 Setup
License Terms To install SQL Server 2012, yo	u must accept the Microsoft Software License Terms.
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 DEVELOPER 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
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.
	< Back Next > Cancel

 On the Product Updates page, the latest available SQL Server product updates are displayed. Select "Include SQL Server product updates", and then click "Next"

12	SQL Server	2012 Setup		_ D X
Product Updates Always install the latest upd	ates to enhance your SQL Server security	and performance.		
Product Key License Terms	✓ Include SQL Server product upda	ates		
Product Updates	Name	Size (MB)	More Information	
Install Setup Files	SQL Server 2012 SP1 GDR Setup	26	KB 2793634	
	The Setup updates (26 MB) will be in Read our privacy statement online Learn more about SQL Server product	installed when you click Next. ict updates		
		< B.	ack Next >	Cancel

- On the Install Setup files page, Setup provides the progress of downloading, extracting, and installing the Setup files.
 If an update for SQL Server Setup is found, and is specified to be included, that update will also be installed, Click "Install"
 - The System Configuration Checker verifies the system state of your computer before Setup continues.
 - If prompted to restart the computer, click "OK"

	SQL Server 20	12 Setup	
Install Setup Files			
SQL Server Setup will now update will also be installe	be installed. If an update for SQL Server Setur d.	o is found and specified to be included, the	
Product Key			_
license Terms Product Updates	SQL Server Setup files are being installe	d on the system.	
nstall Setun Files	Task	Status	
	Scan for product updates	Completed	
	or more affected files have operations pending cess is completed.	. You must restart your computer after the set	up
One pro	or more affected files have operations pending cess is completed.	. You must restart your computer after the set	up
	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	up K
	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	wр
Pro Pro	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	up
Contraction of the second seco	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	up
Pro Pro	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	wp
Pro Pro	e or more affected files have operations pending cess is completed.	. You must restart your computer after the set	цр

• On the Setup Role page, select "SQL Server Feature Installation", and then click "Next" to continue to the Feature Selection page.

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

- On the Feature Selection screen, select the following features, and then click "Next"
 - Database Engine Services
 - SQL Server Replication
 - Full-Text and Semantic Extractions for Search
 - Analysis Services
 - Reporting Services Native (This component is optional. But you can install this if you are considering for example integrate BAM with SQL Server Reporting Services)

- Shared Features
 - SQL Server Data Tools
 - Client Tools Connectivity
 - Integration Services

Management Tools - Basic

Management Tools - Complete



 On the Installation Rules page, Setup verifies the system state of your computer before Setup continues, and then click "Next"

1	SQL Server 2012 Setup	- 🗆 X
Installation Rules Setup is running rules to deterr	nine if the installation process will be blocked. For more information, click Help.	
Setup Support Rules Product Key License Terms 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	Operation completed. Passed: 3. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Re-run
	< Back Next > Cancel	Help

• On the Instance Configuration screen, select "Default instance", leave the rest of the default values, and then click "Next" to continue.

1	S	QL Se	rver 2012 Se	etup		_ D X
Instance Configuration Specify the name and instance	ID for the instance of SC	L Serve	r. Instance ID I	pecomes part of t	he installation path.	
Setup Support Rules Product Key License Terms	Default instance Named instance:		MSSQLSERVE	R		
Setup Kole Feature Selection Installation Rules Instance Configuration	Instance ID: Instance root directory	:	MSSQLSERVE C:\Program F	R Files\Microsoft SC	lL Server\	
Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration	SQL Server directory: Analysis Services direc Reporting Services dire	tory: ectory:	C:\Program F C:\Program F C:\Program F	iles\Microsoft SQ iles\Microsoft SQ iles\Microsoft SQ	L Server\MSSQL11.MSS L Server\MSAS11.MSSC L Server\MSRS11.MSSC	SQLSERVER QLSERVER QLSERVER
Installation Configuration Rules Ready to Install Installation Progress Complete	Installed instances:	Instan	ce ID	Features	Edition	Version
				< Back	Next > Cano	el Help

• Review the information on the Disk Space Requirements screen, this page calculates the required disk space for the features that you specify and compares with available disk space. Click "Next" to continue.

1	SQL Server 2012 Setup			
Disk Space Requirements				
Review the disk space summan	y for the SQL Server features you selected.			
Setup Support Rules Product Key License Terms 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	Disk Usage Summary: Disk Usage Summary: Disk Usage Summary: System Drive (C:\): 3629 MB required Shared Install Directory (C:\Program Files\Microsoft SQL Server\): 1226 MB required Instance Directory (C:\Program Files\Microsoft SQL Server\): 2185 MB required			
	< Back Next > Cancel Help			

- On the Server Configuration screen, you can specify login accounts for each SQL Server services. You can assign the same login account to all SQL Server services, or you can configure each service account individually. You can also specify whether services start automatically, are started manually, or are disabled (Microsoft recommends that you configure service accounts individually to provide least privileges for each service).
 - Leave the default login account to all SQL Server services
 - Configure all of them with the startup type: "Automatic"
 - And then click "Next"

8	SQL Server 201	2 Setup		
Server Configuration Specify the service accounts and collation configuration.				
Setup Support Rules Product Key License Terms	Service Accounts Collation Microsoft recommends that you use	a separate account for each SQL	Server service	2.
Setup Kole	SOL Soprer Agent	Account Name	Password	Automatic
Feature Selection	SOL Server Database Engine	NT Service\MSSOLSERVER		Automatic V
Installation Rules	SQL Server Analysis Services			Automatic ¥
Instance Configuration	SQL Server Reporting Services	NT Service\ReportServer		Automatic V
Disk Space Requirements	SQL Server Integration Services 11.0	NT Service\MsDtsServer110		Automatic V
Server Configuration	SQL Full-text Filter Daemon Launc	NT Service\MSSOLEDLauncher		Manual
Apply size Engine Configuration	SQL Server Browser	NT AUTHORITY\LOCAL SERV		Automatic Y
Analysis Services Configuration				
Fror Reporting	<u> </u>			
Installation Configuration Rules				
Ready to Install				
Installation Progress				
Complete				
	L			
		< Back Next >	Cance	l Help

- On the Database Engine Configuration screen, select "Windows authentication mode", click "Add Current User", and then click "Next"
 - Authentication Mode: Select "Windows authentication mode". If you select Mixed Mode Authentication, you must provide a strong password for the built-in SQL Server system administrator account.
 - Specify SQL Server administrators: You must specify at least one system administrator for the instance of SQL
 Server. To add the account under which SQL Server Setup is running, click "Add Current User"

1	SQL Server 2012 Setup	_ D X
Database Engine Config	juration	
Specify Database Engine authen	tication security mode, administrators and data directories.	
Setup Support Rules Product Key License Terms 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	Server Configuration Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engir 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 BTS2013LAB01\Administrator (Administrator)	IE.
	Add Current User Add Remove	
	< Back Next >	Cancel Help

- On the Analysis Services Configuration screen, select "Multidimensional and Data mining Mode", click "Add Current User", and then click "Next"
 - Server Mode: Select "Multidimensional and Data mining Mode". Server mode determines which memory and storage subsystems are used on the server. If you plan to run multidimensional cube databases on the server, choose the default option, Multidimensional and Data Mining server mode.
 - Specify which users have administrative permissions for Analysis Services: you must specify at least one system administrator for Analysis Services. To add the account under which SQL Server Setup is running, click Add Current User.

1	SQL Server 2012 Setup
Analysis Services Conf	iguration
Specify Analysis Services server	modes, administrators, and data directories.
Setup Support Rules Product Key License Terms 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	Server Configuration Data Directories Server Mode: Multidimensional and Data Mining Mode Tabular Mode Specify which users have administrative permissions for Analysis Services. BTS2013LAB01\Administrator (Administrator) Analysis Services administrators have unrestricted access to Analysis Services. Malysis Services. Analysis Services. Malysis Services administrator (Administrator) Analysis Services. Analysis Services. Malysis Services. Malysis Services. Malysis Services. Malysis Services. Analysis Services. Malysis Services. Mal
	< Back Next > Cancel Help

• On the Reporting Services Configuration screen, select "Install and configure", and then click "Next" to continue.

1	SQL Server 2012 Setup					
Reporting Services Configuration Specify the Reporting Services configuration mode.						
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configura Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	 Reporting Services Native Mode Install and configure. Installs and configures the report server in native mode. The report services of setup completes. Install only. Installs the report server files. After installation, use Reporting Services of to configure the report server for native mode. Reporting Services SharePoint Integrated Mode Installs the report server files. After installation use SharePoint Central <i>J</i> complete the configuration. Verify the SQL Server Reporting Services service application. For click Help. 	ver is operational after Configuration Manager Administration to ervice is started and or more information,				
	< Back Next >	Cancel Help				

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• On the Error and Usage Reporting screen, leave the default values, and then click "Next"

SQL Server 2012 Setup			
Error Reporting			
Help Microsoft improve SQL Se	erver features and services.		
Setup Support Rules Product Key License Terms 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 2012 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		

• On the Installation Configuration Rules screen, review the information and resolve any issues, and then click "Next"

SQL Server 2012 Setup					
Installation Configuration Rules					
Setup is running rules to deter	mine if the installation process will be blocked. For more information, click Help.				
Setup Support Rules Product Key License Terms 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	Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Re-run			
	< Back Next > Cancel	Help			

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On the Ready to Install screen, review the information, and then click "Install"



• On the Complete screen, click "Close"

1	SQL Server 2012 Setup			
Complete Your SQL Server 2012 installation completed successfully with product updates.				
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	Information about the Setup operation or Feature Content Tools - Complete Content Tools Connectivity Management Tools - Basic Solution Services - Native Content Services - Native Database Engine Services Details: Viewing Product Documentation for Only the components that you use to v been installed. By default, the Help Vie Solut Server, you can use the Help Libr your local computer. For more informat http://go.microsoft.com/fwlink/?LinklC Summary log file has been saved to the fol Ci\Program Files\Microsoft Solution Solution 20130502 122	status Status Succeeded su	ntation for SQL Server have ne library. After installing ownload documentation to s Online for SQL Server.	
			Close Help	

Note: Once again, after this installation, I like to do a Windows update, this step is not necessary.

3.8 Configure SQL Server Database Mail feature

If your BizTalk Server environment uses SQL Server 2012 and you wish to configure BAM Alerts, you must have already configured SQL Server Database Mail feature before you try to configure BAM Alerts, otherwise the BizTalk Basic configuration will ignore this feature (BAM Alerts).



Database Mail is an enterprise solution for sending e-mail messages from the SQL Server Database Engine. Using Database Mail, your database applications can send e-mail messages to users. The messages can contain query results, and can also include files from any resource on your network. You can read more here: http://msdn.microsoft.com/en-us/library/ms189635.aspx

NOTE: You still can have BAM Portal with activities and aggregations without alerts, this is mandatory if you want alerts.

Before we begin, we need to determine the server name and port number for the Simple Mail Transfer Protocol (SMTP) server that we will use to send e-mail (If the SMTP server requires authentication, determine the user name and password for the SMTP server). In our case will be the local SMTP Server that we previous install and configure.

To Configure SQL Server Database Mail Account:

 Press the "Windows key" to switch to Start screen and type "SQL Management" or "SQL" and click in "SQL Server Management Studio" option on Apps menu.

Apps Results for "sql management"	Search Apps sql management	× 🔎
Management	Apps	1
	Settings	0
	Files	0

- In Object Explorer panel, connect to the SQL Server instance you want to configure Database Mail on, and expand the server tree.
 - Expand the "Management" node





- Double click "Database Mail" to open the Database Mail Configuration Wizard.
 - Or right click under "Database Mail" and select the option "Configure Database Mail"



• On the Welcome to Database Mail Configuration Wizard page, click "Next" to continue



- On the Select Configuration Task page, select "Set up Database Mail by performing the following tasks:" and click "Next" to continue.
 - Set up Database Mail by performing the following tasks: Perform all of the tasks required to set up Database Mail for the first time. This option includes all of the other three options.
 - **Manage Database Mail accounts and profiles**: Create new Database Mail accounts and profiles or to view, change, or delete existing Database Mail accounts and profiles.
 - Manage profile security: Configure which users have access to Database Mail profiles.
 - View or change system parameters: Configure Database Mail system parameters such as the maximum file size for attachments.

💾 Database Mail Configuratio	n Wizard - BTS2013LAB01	_ _ ×
Select Configuration Task Select setup or maintenance tasks.		
If you are installing Database Mail for the first time, select the setup	option.	
 Set up Database Mail by performing the following tasks: 		
1. Create a new e-mail profile and specify its SMTP accounts		
2. Specify profile security		
3. Configure system parameters		
Manage Database Mail accounts and profiles	-	
O Manage profile security		
O View or change system parameters		
Help	< Back Next > Finish	n >> Cancel

If Database Mail has not been enabled, you will receive the message: "The Database Mail feature is not available.
 Would you like to enable this feature?" Click "Yes" to continue.



Database Mail Configuration Wizard - BTS201	3LAB01 - 🗆 🗙
Select Configuration Task Select setup or maintenance tasks.	
If you are installing Database Mail for the first time, select the setup option.	
Set up Database Mail by performing the following tasks:	
1. Create a new e-mail profile and specify its SMTP accounts	
2. Specify profile security	
Microsoft SQL Server Management Stud	io
The Database Mail feature is not available. Would you like to enable this fea	ture?
₽ ₁	Yes No
Help < Back Next >	Finish >> Cancel

 On the New Profile page, specify the "Profile name" and "Description" to be included in the profile, and click "Add..." to specify an account

8	Database Mail Configur	ation Wizard -	BTS2013LAB01	_ _ ×	
New Profile Specify the prof	le name, description, accounts, and failov	er priority.			
Profile name:	LocalSMTP				
Description:	Description: This is the profile that we will use to send email using the local SMTP				
A profile may be ass account in the priorit SMTP accounts:	A profile may be associated with multiple SMTP accounts. If an account fails while sending an e-mail, the profile uses the next account in the priority list. Specify the accounts associated with the profile, and move the accounts to set the failover priority.				
Priority Account	Name E-mail Address			Add	
				Remove	
				Move Up	
				Move Down	
Help		< Back	Next > Finish >	> Cancel	

- On the New Database Mail Account page, specify the account name, description, mail server information, and authentication type. Click "OK"
 - A Database Mail account contains the information that SQL Server uses to send e-mail messages to an SMTP server. Each account contains information for one e-mail server and doesn't correspond to a SQL Server account or a Microsoft Windows account. Database Mail can be sent using the credentials of the SQL Server Database Engine, using other credentials that you supply, or anonymously. When using basic authentication, the user name and password in a Database Mail account are only used for authentication with the e-mail server. An account need not correspond to a SQL Server user or a user on the computer running SQL Server.

- Account name: Type the name of the new account.
- **Description**: Type a description of the account. The description is optional.
- E-mail address: Type the name of the e-mail address for the account. This is the e-mail address that e-mail is sent from. For example, an account for SQL Server Agent may send e-mail from the address SqlAgent@Adventure-Works.com.
- Display name: Type the name to show on e-mail messages sent from this account. The display name is optional. This is the name displayed on messages sent from this account. For example, an account for SQL Server Agent may display the name "SQL Server Agent Automated Mailer" on e-mail messages.
- Reply e-mail: Type the e-mail address that will be used for replies to e-mail messages sent from this account. The reply e-mail is optional. For example, replies to an account for SQL Server Agent may go to the database administrator, danw@Adventure-Works.com.
- Server name: Type the name or IP address of the SMTP server the account uses to send e-mail. Typically this is in a format similar to smtp.<your_company>.com. For help with this, consult your mail administrator. As I say early we will use our local SMTP Server, so the server name will be "localhost"
- Port number: Type the port number of the SMTP server for this account. Most SMTP servers use port
 25.
- This server requires a secure connection (SSL): Encrypts communication using Secure Sockets Layer.
- Windows Authentication using Database Engine service credentials: Connection is made to the SMTP server using the credentials configured for the SQL Server Database Engine service.
- Basic Authentication: Specify the user name and password required by the SMTP server.
- Anonymous authentication: Mail is sent to the SMTP server without login credentials. Use this option when the SMTP server does not require authentication.

<u>1</u>	New Database Mail Account			x	
Specify name description and attributes for your SMTP account					
Account name:	SQL Administrator	SQL Administrator			
Description:	Mail Account for the	OL Administrator			
Outgoing Mail Soprer (Sh		Age / Karnin list drof			
	117)		J		
E-mail address:		sandro.pereira@	devscope.net		
Display name:		SQL Administrato	r		
<u>R</u> eply e-mail:					
Server name:		localhost		Port number:	25
This server require	es a secure connection	n (SSL)			
SMTP Authentication					
O <u>W</u> indows Authention	cation using Database	Engine service cre	edentials		
Basic authenticatio	n				
<u>U</u> ser name:					
Password:					
Confir <u>m</u> password:					
Anonymous auther	ntication				
			ОК	Cancel	Help

Back on the New Profile page, click "Next" to continue

8	Da	atabase Mail Configuration Wizard - BTS2013LAB01 🛛 📃 🗖 🗙			
New Pro Specify	ofile the profile name, de	escription, accounts, and failover priority.			
Profile name	Profile name: LocalSMTP				
Description:	This is the	profile that we will use to send email using the local SMTP			
A profile may account in t	y be associated with the priority list. Specif punts:	n multiple SMTP accounts. If an account fails while sending an e-mail, the profile uses the next fy the accounts associated with the profile, and move the accounts to set the failover priority.			
Priority	Account Name	ame E-mail Address Add			
1	SQL Administrator	sandro.pereira@devscope.net Remove Move Up Move Down			
Help		< Back Next > Finish >> Cancel			

• On the Manage Profile Security page, you will be able to set the Public, Private and Default Profiles, select our profile as public and default and click "Next".

8	Database Mail Configuration Wizard - BTS2013LAB01	-	o x
Manage Specify (Profile Security database users or roles that have access to profiles.		
Public Profi	les Private Profiles		
A public p	profile can be accessed by all users of any mail-host database.		
Bublic	Defeut Perfe		
	LocalSMTP Yes	e	_
Show	only existing public profiles		
Help	< Back Next > Finish >>	Ca	ancel

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• On the Configure System Parameters page, leave the default values and click "Next"

🕒 Database Mail Configura	tion Wizard - BTS2013LAB01 📃 🗖 🗙
Configure System Parameters View or change Database Mail system parameters.	
System parameters:	
Parameter	Value
Account Retry Attempts	1
Account Retry Delay (seconds)	60
Maximum File Size (Bytes)	1000000
Prohibited Attachment File Extensions	exe,dll,vbs.js
Database Mail Executable Minimum Lifetime (seconds)	600
Logging Level	Extended
Number of retry attempts for a mail server to send email.	
	Reset All
Help	Cancel

• On the Complete the Wizard page, review the actions to be performed and click "Finish" to complete creating the new account.

💾 Database Mail Configuration Wizard - BTS2013LAB01 📃 🗖 🗙
Complete the Wizard Verify the actions the wizard is about to perform, and then click Finish to execute these actions on the server.
Click Finish to perform these actions:
New Accounts Create new account 'SQL Administrator' for SMTP server 'localhost'
New Profiles • Create New profile 'LocalSMTP'
Adding Accounts Profiles Add account "SQL Administrator' to profile "LocalSMTP' with priority '1'
Help Cancel

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• On the "Configuring..." page, ensure that all actions succeed and then click "Close"

	Database Mail Configuration	n Wizard - E	TS20	13LAB	01	_ □	x
Configuring Click Stop to interrupt the operation.							
 Image: Construction 	Success		3 To 3 Su	otal Iccess		0 Error 0 Warning	
)etai	ls:						
	Action	Status			Message	•	
0	Create new account 'SQL Administrator' for SMTP server '	Success					
0	Create New profile 'LocalSMTP'	Success					
0	Add account 'SQL Administrator' to profile 'LocalSMTP' wi	Success					
				Stop	>	Report	•
						Close	

The Database Mail should now be configured successfully and all should be correctly setup to send emails, but we must make sure by testing it. So we will send a test email and confirm the reception. To do that:

Right-click on Database Mail and select "Send Test E-Mail..."

Patak	ase I	Mail	
👸 Distri		Configure Database Ma	ail
🚞 Lega		Send Test E-Mail	
Integration SOL Server		View Database Mail Log	
502 5011		Reports	•
		Refresh	

• On the Send Test E-mail from windows, specify a "To:" email and click "Send Test E-Mail"

<u>1</u>	Send Test E-M	Mail from BTS2013LAB01 🛛 🗖 🛛 🗙
Database Mail <u>P</u> rofi	le:	LocalSMTP V
<u>T</u> o:		sandro.pereira@devscope.net
Subject:		Database Mail Test
<u>B</u> ody:		This is a test e-mail sent from Database Mail on A BTS2013LAB01.
		Send Test <u>E</u> -Mail
		Close

If all goes well you should receive the email in a few seconds. If you have received the email, you have been able to configure Database Mail successfully.

Installing BizTalk Server 2013 in a Standalone Machine

4. Install and configure BizTalk Server 2013

This part of the article will focus on installing and configuring BizTalk Server 2013 and additional components.

4.1 Install BizTalk Server 2013

In this section you'll install BizTalk Server, confirm that the installation succeeded, and then configure BizTalk Server.

When you installed SQL Server, setup granted your account Database Administrator rights. Since these rights are also required for installing BizTalk Server, you must do one of the following:

- Use the same account you used when you installed SQL Server.
- Or make sure the account you're using now also has Database Administrator rights and is also local administrator.

To install BizTalk Server 2013

- Close any programs you have open. Run the BizTalk Server 2013 installer as Administrator.
- On the Start screen, click "Install Microsoft BizTalk Server 2013"



• On the Customer Information screen, type your user name and organization, enter your product key, and then click "Next"

Microsoft Bi	zTalk Server 2013 Installation Wizard	x
Customer Information Type your information.		
Enter your name and the name of yo	ur organization.	
User name:	spereira]
Organization:	DevScope]
Enter the product key for this produc	t that is on the lower section of your certificate of authenticity.	
Product key:		
Help	< Back Next > Cancel	

On the License Agreement screen, accept the license agreement, and then click "Next"

Microsoft BizTalk Server 2013 Installation Wizard	×				
License Agreement Please read the following license agreement carefully.					
To continue with Microsoft BizTalk Server 2013 setup, please read and accept the terms of the License Agreement below.					
MICROSOFT SOFTWARE LICENSE TERMS	^				
MICROSOFT BIZTALK SERVER 2013 ENTERPRISE					
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,	~				
• Yes, I accept the terms of the license agreement					
○ No, I do not accept the terms in the license agreement					
Help < Back Next > Cancel					

- On the Customer Experience Improvement Program screen, specify whether you want to participate in the program, and then click "Next"
 - BizTalk Server 2013 participates in the Customer Experience Improvement Program. As part of this support, you can choose to provide useful feedback to Microsoft regarding feature usage reporting functionality of BizTalk Server. The data collected from you is anonymous and cannot be used to identify you. Microsoft collects feature usage statistics as part of this program. By participating in this program, you can help improve

the reliability and performance of various features of BizTalk Server. For more information about this program and its privacy policy, see Microsoft BizTalk Server CEIP Privacy Policy (http://go.microsoft.com/fwlink/?LinkId=188553).

	Microsoft BizTalk Server 2013 Installation Wizard	x
Customer E	xperience Improvement Program	
Do you want t The program I information ab collected is no	to participate in the Customer Experience Improvement Program for Microsoft BizTalk Server helps Microsoft improve Microsoft BizTalk Server. Without interrupting you, it collects bout your computer hardware and how you use Microsoft BizTalk Server. The information of used to identify or contact you.	i)
Read the priv	vacy statement online.	
● Yes, I wan ○ No, I don t	nt to participate in the program. (Recommended) t want to participate in the program.	
	< Back Next > Cancel	

- On the Component Installation screen, review the available components and select the ones you want to install.
 - Choose all possible components
 - Accept the default installation location or click Browse to move to the location where you want to install BizTalk Server 2013.
 - And then click "Next"

Microsoft BizTalk Server 2	2013 Installation Wizard	x
Component Installation Select components.		
Available components: Portal Components Business Activity Monitoring Developer Tools and SDK Documentation Server Runtime BizTalk EDI/AS2 Runtime Windows Communication Foundation A Mindows Communication Foundation A Additional Software Enterprise Single Sign-On Administration Finstall to: C:\Program Files (x86)\Micro	Description Additional Software is a set of optional components that extend the functionality of Microsoft BizTalk Server.For more information on these components, click Help. Space required: 39,76 MB Space allocation Space Required on C: 632,99 Space Allocation Details psoft BizTalk Server 2013\	MB
Help < Bac	ck Next > Cance	I
		Bi

Microsoft BizTalk Server	2013 Installation Wizard		
Component Installation Select components.			
Available components:	Description		
Additional Software Enterprise Single Sign-On Administration Enterprise Single Sign-On Master Secre Business Rules Components MQSeries Agent Windows SharePoint Services Adapter BAM Alett Provider for SQL Notification BAM Client RAM Exerting	Additional Software is a set of optional components that extend the functionality of Microsoft BizTalk Server.For more information on these components, click Help. Space required: 39,76 MB		
Project Build Component			
	Space Required on C: 632,99 MB		
Install to: C:\Program Files (x86)\Micr	osoft BizTalk Server 2013\ Browse		
Help < Ba	ick Next > Cancel		

- If your computer is missing a prerequisite component such as ADOMD.NET, Setup can install the redistributable prerequisites. You can either:
 - Select "Automatically install the redistributable prerequisites from the web"
 - Or if you prefer you can select "Automatically install the redistributable prerequisites from a CAB file" if you have already downloaded the CAB file. If you select this, you can then browse to the location of the CAB file and select it.
 - And then click "Next" to continue.

NOTE: To understand all options and where to find the Redistributable CAB Files, see: Appendix B: Redistributable CAB Files

M	Microsoft BizTalk Server 2013 Installation Wizard	x
	Redistributable Prerequisites Review redistributable components to be installed.	
	CAB files intended for previous versions of this product are not compatible with Micros Server 2013. If you want to download the latest CAB files manually before installing Mi BizTalk Server 2013, you can find links to them in the installation guide for your operat Redistributable Prerequisites Missing Based on the components you selected to install, you must first install the following pre • Microsoft SQL XML 4.0 with Service Pack 1 • Microsoft SQL XML 4.0 with Service Pack 1 • Manually install the redistributable prerequisites • Automatically install the redistributable prerequisites from the web • Download the redistributable prerequisites from a CAB file Pre-downloaded CAB file:	oft BizTalk crosoft ing system. erequisites.
	Help < Back Next >	Cancel

• On the Summary screen, verify that the components that you select to install are correct.

- To enable auto-logon after a system reboot, click "Set" and provide your logon information. Auto-logon is enabled only for reboots during setup, and is disabled when setup is complete.
- Click "Install" to start the installation process.

×	Microsoft BizTalk Server 2013 Installation Wizard	x
	Summary Review components to be installed.	
	To start the installation, click Install. To make changes, click Back.	
	Prerequisites The following component(s) will be installed automatically on this computer:	^
	 Microsoft SQL XML 4.0 with Service Pack 1 Microsoft Office Web Components Microsoft ADO MD.Net 9.0 Microsoft ADO MD.Net 10.0 Setup runtime files for AMD64 platform Setup runtime files Enterprise Single Sign-On Server Enterprise Single Sign-On Administration Microsoft Primary Interoperability Assemblies 2005 Microsoft Document Explorer 2008 IIS ASPNET 4.5 	~
	System reboots may be required. To set auto-logon credentials, click Set. Set	
	Help < Back Install Cancel	

- On the Microsoft Update Setup screen, specify whether you want to use Microsoft Update for checking for regular updates from Microsoft:
 - Select "Use Microsoft Update when I check for updates (recommended)"
 - And then click "Next" to continue.



• On the Installation Completed screen, clear the "Launch BizTalk Server Configuration" check box, and then click "Finish"

Microso	oft BizTalk Server 2013 Installation Wizard	X
No.	Installation Completed	
Microsoft: BizTalk: Server 2013	You have successfully installed Microsoft BizTalk Server 2013.	
	A <u>Logfile</u> has been created in your temp directory.	
	✓ Launch BizTalk Server Configuration	
	To close this wizard, click Finish.	
Help	< Back Finish Cancel	

4.1.1 Verify Your Installation

You can check to see whether your installation was successful by using either Programs and Features or the Registry.

To verify installation using Programs and Features

- Press the "Windows key" to switch to Start screen.
- Type "Programs and Features" and click in "Programs and Features" option on Settings menu.
- When the list is fully populated, look for BizTalk Server 2013. If it appears in the list, setup succeeded.

	Programs and Features					_ 0 ×
6	🕘 💿 🔹 🕇 🔯 🕨 Control P	anel			v ¢	Search Programs 🔎
	Control Panel Home	Uninstall or change a program				
	View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.			
0	Turn Windows features on or					
	off	Organize 🔻 Uninstall/Change				::: 👻 🕜
		Name	Publisher	Installed On	Size	Version
		🗒 Entity Framework Designer for Visual Studio 2012 - enu	Microsoft Corporation	03/05/2013	29,6 MB	11.1.20702.00
		📰 IIS 8.0 Express	Microsoft Corporation	03/05/2013	36,0 MB	8.0.1557
		IIS Express Application Compatibility Database for x64		03/05/2013		
		IIS Express Application Compatibility Database for x86		03/05/2013		
		Microsoft .NET Framework 4.5 Multi-Targeting Pack	Microsoft Corporation	03/05/2013	41,8 MB	4.5.50709
		Microsoft .NET Framework 4.5 SDK	Microsoft Corporation	03/05/2013	18,5 MB	4.5.50709
		🐻 Microsoft ASP.NET MVC 3	Microsoft Corporation	03/05/2013	1,00 MB	3.0.20105.0
		🖶 Microsoft ASP.NET Web Pages	Microsoft Corporation	03/05/2013	2,08 MB	1.0.20105.0
		Microsoft BizTalk Server 2013 Enterprise Edition	Microsoft Corporation	03/05/2013		3.10.229.0

To verify installation using the Registry:

• Press the "Windows key" to switch to Start screen and type "regedit" and click in "regedit" option on Apps menu.

Apps Results for "regedit"	Search Apps regedit × P
	Apps 1
	Settings 0
	Files 0

When the Registry opens, browse to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\BizTalk Server\3.0

 If files exist in the 3.0 folder, setup succeeded. 						
🕱 Registry Editor 📃 🗖						
File Edit View Favorites Help Image: Computer Image: Computer Image: Computer Image: Computer Image: Image: Computer Image: Computer Image: Computer Image: Computer Image: Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer Image: Computer	 Name Name Default) CEIPEnabled Checksum InstallDate	Registry Type REG_SZ REG_DWORD REG_BINARY REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ	Editor Data (value not set) 0x0000001 (1) 01 00 00 00 d0 8c 9d df 01 15 d1 11 8c 7a 00 c0 4f c2 03/05/2013 C:\Program Files (x86)\Microsoft BizTalk Server 20 16:47:38 (FFF25E7A-A7F7-4B10-9B70-042A6734D806) (0A99450E-D4DC-4488-94FD-EF652FAC6466) (8E0F8077-F19E-4751-A296-871F7BB4BDE6) (0A99450E-D4DC-4488-94FD-EF652FAC6466) Enterprise 1033 Microsoft BizTalk Server 2013 3.10.229.0			
Autil/SerinstallAgent Autil/SerinstallAgent Autil/SerinstallAgent Autil/SerinstallAgent Autil/Host BestPractices BidInterface BizTalk Server Solution Solution						

• Close the Registry, and then close the command prompt.

4.2 Configure BizTalk Server

Use the following procedure to complete a basic configuration of BizTalk Server. For information on customizing your configuration, see **Custom Configuration**.

NOTE: If your BizTalk Server environment uses SQL Server 2012 and you wish to configure BAM Alerts, you must have already configured SQL Server Database Mail feature.

To configure BizTalk Server 2013 using Basic Configuration:

• Press the "Windows key" to switch to Start screen and type "BizTalk Server Configuration" or "BizTalk", right-click "BizTalk Server Configuration" option on Apps menu, and then click Run as Administrator.

Apps Results for "biztalk"	Search Apps biztalk X P
BizTalk Server	Apps 5
Administration BizTalk Server Degrade server	Settings 0
BizTalk WCF Service Publishin	Files 0

- On the Microsoft BizTalk Server 2013 Configuration screen, apply the following configurations and then click "Configure" to continue:
 - Select "Basic configuration" option
 - In the "Database server name" field under "Database" properties, enter the name of the local computer.
 - In the "Service credential" properties, type the User name and Password for the account that the BizTalk services will run under.

NOTE: If you are installing a multi-server BizTalk environment you should use "Custom configuration". For helping you decide what kind of configuration you should use, see **APPENDIX C: BASIC CONFIGURATION VS. CUSTOM CONFIGURATION**

Microsoft BizTalk Ser	rver Configuration - Start			
Microsoft BizTalk Server 2013 Configuration Choose default or custom configuration, and then enter the da	atabase and service credential information.			
 Basic configuration Custom configuration 				
Description				
You have selected basic configuration (recommended for first ti	me users).			
Use this option to configure the server with default settings. After you enter the default database name and credential account information, click Configure.				
If BizTalk was already configured on this machine or if the database server is not local, use custom configuration.				
Enter the database and service credential information:				
Database	Service credential			
Type the name of the computer where SQL Server is installed. If you select the basic configuration option, all databases will be created on this server. If you select the custom configuration option, this value will be used as the default value for all databases which you can later customize.	Type the user name and password for the account that the services will run under. If you select the basic configuration option, all services will run under this account. If you select the custom configuration option, this value will be used as the default value for all services which you can later customize.			
Database server name:	User name:			
BTS2013LAB01	Administrator Browse			
	Password:			
	••••••			
Help	Configure Cancel			

• Note: You may receive a warning if you enter a user name with administrative credentials on this computer. Click "Yes" to continue.



• On the Summary screen, review the configuration about to be performed, and then click "Next"

P <mark>BY</mark>	Microsoft BizTalk Server Configuration Wizard	x
s	ummary Summary of the configuration about to be performed	
	Image: Second State Sta	
	Help < Back Next > Cancel	

• On the Completion screen, click "Finish"



mi Mi	crosoft BizTalk Server Configur	ation Wizard X				
You have successfully completed the Configuration Wizard. BizTalk: Server 2013						
	Feature Name	Configuration Result				
	Enterprise SSO	Success with warning				
$\langle \rangle$	🥝 Group	Success =				
	🥝 BizTalk Runtime	Success				
	Ø Business Rules Engine	Success				
	BAM Tools	Success				
	RAM Portal	Success				
	Launch Custom Configuratio A Logfile has been created in you To learn more about the features <u>Started with Microsoft BizTalk Se</u>	n ır temp directory. , tools, and technologies, see <u>Getting</u> r <u>ver 2013</u> in the product documentation.				
Help	< <u>B</u> ac	k <u>F</u> inish Cancel				

We now have BizTalk Server 2013 Installed and Configured!!!

N	BizTalk Server Administ	ration Console	_ 0 ×
File Action View Help			
Console Root			Actions
A BizTalk Server Administration A BizTalk Group [BTS2013LAB01]	Microsoft"		BizTalk Ser
⊿ 🛅 Applications	Biz lalk Server 2013		Connect t
> 🛅 <all artifacts=""></all>			Connect t
BizTalk.System BizTalk Application 1			View
▷ III BizTalk EDI Application	Manage Your BizTalk Server		👔 Help
Ranties	Connect to an existing group	Connect to an existing tracking database	
⊿ Platform Settings Hosts			
Host Instances	Learn About BizTalk Server 2013		
Servers	Getting started	Administering your application and servers	
Message Boxes	Planning and implementation	Operations and Troubleshooting	
Event Viewer (Local)			
	Pick a Help Topic		
	Onnect to an existing group	Oreate a send port	
	Onnect to an existing tracking database	Opploy an application	
	Create a receive location		
	Community		
	Microsoft BizTalk Server 2013 Homepage	Microsoft Product Support Service	
	Microsoft BizTalk Server Developers Center		
		III	>

4.2.1 Pin BizTalk Server Administration to taskbar

Everybody knows that BizTalk Server Administration Console is the most important tool, it's a Microsoft Management Console (MMC) that you can use to manage and monitor BizTalk Server, and that you can use to deploy and manage your BizTalk Server applications.



With the new UI in Windows Server 2013, almost all programs are "hidden" and can be easily be accessed through context search from the Start screen. However be constantly doing this type of operation eventually becomes annoying.

So to be able to quickly and easily access BizTalk Server Administration Console you can pin the console to the taskbar, to accomplish that you need:

- Press the "Windows key" to switch to Start screen and type "BizTalk Server Administration" or "BizTalk" and right click in "BizTalk Server Administration" option on Apps menu to open the option bar at the bottom of the window.
- In the option bar, select "Pin to taskbar" option to add "BizTalk Server Administration" to your desktop taskbar.

With Surver Administration Image: Statistic Surver Administration With Surver Unpin from Stat Image: Statistic Surver Surver Image: Statistic Surver Surver Image: Statistic Surver Unpin from Stat Image: Statistic Surver Image: Statistic Surver Image: Statistic Surver Image: Statistic Surver Unpin from Stat Image: Statistic Surver Unpin from Stat Image: Statistic Surver Image: Statis Image: Statistic Surver <th>Apps</th> <th>Results for "biztalk se</th> <th>rver a"</th> <th></th>	Apps	Results for "biztalk se	rver a"	
Urpin from Start Urpin from St	BizTalk Serve Administratio	r 🗸		
Virpin from Stat Image: State window Image: State window <td></td> <td></td> <td></td> <td></td>				
Unpin from Start Unpin from Start Uninstall Open new Run as different User Open file All apps				
Unpin from Start Unpin from Start Unpin from Start Uninstall				
Unpin from Start Unpin from Start Uninstall Unin				
Unpin from Start Linkbar Uninstall Open new window administrator user location				
Unpin from Start Pin to taskbar Uninstall Open new Run as Run as different Open file All apps window administrator user location				⊜
	Unpin from Start Pin to taskbar Un	install Open new Run as window administrator	Run as different Open file user location	All apps
Windows Server 2012			- Wind	lows Server 2012
0	ł			

4.3 Configure SQL Server Network Configuration protocols

Under certain stress conditions (such as clients accessing SQL Server from the same computer), the SQL Server Shared Memory protocol may lower BizTalk Server performance. You can resolve this problem by disabling the use of the Shared Memory network protocol in SQL Server Network Configuration. Also, to facilitate transactions between SQL Server and BizTalk Server, you must enable TCP/IP and Named Pipes in SQL Server.

To configure the protocols for SQL Server:

 Press the "Windows key" to switch to Start screen and type "SQL Server Configuration Manager" and click in "SQL Server Configuration Manager" option on Apps menu.

Apps Results for "SQL Server Configuration SQL Server Configuration	Search Apps SQL Server Configuration × > SQL Server Configuration × > Settings 0 Files 0	
	BizTa	alk360

- In SQL Server Configuration Manager windows, from the left-hand pane expand "SQL Server Network Configuration" option and then click "Protocols for MSSQLSERVER"
 - Verify that both "TCP/IP" and "Named Pipes" are enabled;
 - If not, right-click in the protocol, and then click "Enable"
 - Repeat to enable the other protocol if necessary.
 - Verify that "Shared Memory" id Disable.
 - If not, right-click Shared Memory, and then click "Disable"

	SqL	Server Configuration Manager
File Action View Help		
🗢 🄿 🙍 🗟 🗟		
😵 SQL Server Configuration Manager (Local)	Protocol Name	Status
SQL Server Services	🚡 Shared Memory	Disabled
SQL Server Network Configuration (32bit)	🗿 Named Pipes	Enabled
SQL Native Client 11.0 Configuration (32bit)	TCP/IP	Enabled
⊿ <u>↓</u> SQL Server Network Configuration		
Protocols for MSSQLSERVER		
SQL Native Client 11.0 Configuration		

 In the left-hand pane, click "SQL Server Services", right-click "SQL Server (MSSQLSERVER)", and then click "Stop". After the service has stopped, right-click "SQL Server (MSSQLSERVER)" again, and then click "Start".

	SqL S	Server Configur	ation Manage	r		- 0	x
File Action View Help							
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit)	Name SQL Server Integrat SQL Full-text Filter	ion Services 11.0 Daemon Launcher	(MSSQLSERVER)	State Running Running	Start Mode Automatic Manual	Log On As NT Service\MsDtsS NT Service\MSSQL	Proc 1364 2696
 ▷ 몰 SQL Native Client 11.0 Configuration (32bit) ▲ _ SQL Server Network Configuration ■ Protocols for MSSQLSERVER ▶ . SQL Native Client 11.0 Configuration 	5QL Server (MSSQL) 5QL Server Ana 5QL Server Rep 5QL Server Brov 5QL Server Age	SERVER) Start Stop Pause Resume Restart Properties Help	;) ER)	Running Running Running Running Running	Automatic Automatic Automatic Automatic Automatic	NT Service\MSSQL NT Service\MSSQL NT Service\ReportS NT AUTHORITY\LO NT Service\SQLSER	1452 1496 1752 2136 2188

• Close SQL Server Configuration Manager.

4.4 Validate Mail account used by BizTalk to send BAM Alerts

After you configure with success BizTalk Server 2013 BAM Alerts, the configurator will create a new Database Mail Account called "BAM_Alerts_Account" that will be used by BizTalk to send BAM Alerts.

To Validate Mail account used by BizTalk to send BAM Alerts:

- Press the "Windows key" to switch to Start screen and type "SQL Management" or "SQL" and click in "SQL Server Management Studio" option on Apps menu.
- In Object Explorer panel, connect to the SQL Server instance you want to configure Database Mail on, and expand the server tree.
- Expand the "Management" node and double click "Database Mail" to open the Database Mail Configuration Wizard.
- On the Welcome to Database Mail Configuration Wizard page, click "Next" to continue
- On the Select Configuration Task page, select "Manage Database Mail accounts and profiles" option and click "Next"
- On the Manage Profiles and Accounts page, select "View, change or delete an existent account" option, and click "Next"

8	Database Mail Configuration Wizard - BTS2013LAB01	_ D X
Manage Profiles Specify the task to p	erform.	
Select a management T	Task:	
Create a new account	unt	
View, change, or de	elete an existing account	
Create a new profile	e	
O View, change, or de	elete an existing profile. You can also manage accounts associated with the profile	
Help	< Back Next > Finish >>	Cancel

• On the Manage Existent Account page, select "BAM_Alerts_Account" option under "Account name" and validate the configuration. After that click "Next" to make any change or "Cancel" to exit.

B	Database	Mail Configuration	Wizard - BT	S2013LAB01	_	D X
Manage Existi Choose the acco	ng Account unt to view, change	, or delete.				
Account name:	BAM_Alerts_Acco	ount			~	Delete
Description:	Mail Account Use	d by BizTalk to send BAM A	Verts			
Outgoing mail server ((SMTP)					
E-mail address:		sandro.pereira@devscope.	net			
Display name:		BAM Alerts				
Reply e-mail:						
Server name:		localhost			Port number:	25
This server req	uires a secure conn	ection (SSL)				
SMTP Authentication						
O Windows Auth	entication using Data	abase Engine service crede	ntials			
 Basic authentic 	cation					
User name:						
Password:						
Confirm passwo	ord:					
 Anonymous au 	thentication					
Help			Back	Next > F	inish >>	Cancel

Finally you should test sending an email with this Database Mail Account, to do that:

Right-click on Database Mail and select "Send Test E-Mail..."

Patal	oase I	Mail	
🚳 Distri		Configure Database Mail	
🚞 Lega		Send Test E-Mail	
Integration SOL Server		View Database Mail Log	
		Reports	•
		Refresh	

• On the Send Test E-mail from windows, specify a "To:" email and click "Send Test E-Mail"

E	Send Test E-M	Mail from BTS2013LAB01 🛛 🗖 🗙
Database Mail <u>P</u> ro	file:	BAM_Alerts_MAIL_Profile V
<u>T</u> o:		sandro.pereira@devscope.het
<u>S</u> ubject:		Database Mail Test
<u>B</u> ody:		This is a test e-mail sent from Database Mail on ABTS2013LAB01.
		Send Test <u>E</u> -Mail
		Close

If all goes well you should receive the email in a few seconds. If you have received the email, you have been able to configure Database Mail successfully.

4.5 Install BizTalk Adapter Pack

BizTalk Adapter Pack along with BizTalk AppFabric Connect, RFID features, UDDI services and ESB Toolkit are not automatically installed with the default installation process, instead you have to additional install this features

The Microsoft BizTalk Adapter Pack contains adapters that enable enterprise applications and databases to interface with each other by implementing a common adapter framework. Similar to programming to Web services, adapters enable clients to program to different enterprise applications. Technically, adapters are a binding to Windows Communication Framework (WCF). The BizTalk Adapter Pack consists of the following adapters:

- Microsoft BizTalk Adapter for Oracle Database (Oracle Database adapter).
- Microsoft BizTalk Adapter for Oracle E-Business Suite (Oracle E-Business adapter).
- Microsoft BizTalk Adapter for mySAP Business Suite (SAP adapter). This also includes the .NET Framework Data Provider for mySAP Business Suite (Data Provider for SAP).
- Microsoft BizTalk Adapter for Siebel eBusiness Applications (Siebel adapter). This also includes the .NET Framework Data Provider for Siebel eBusiness Applications (Data Provider for Siebel).

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Microsoft BizTalk Adapter for SQL Server (SQL adapter).

To install BizTalk Adapter Pack:

- Close any programs you have open. Run the BizTalk Server 2013 installer as Administrator.
- On the Start screen, click "Install Microsoft BizTalk Adapters"



 In the next Start screen, the first step is to install WCF LOB Adapter SDK, select the "Step 1. Install Microsoft WCF LOB Adapter SDK". An installer of SDK is launched.

	Read the WCF LOB Adapter SDK installation guide.	
	Read the BizTalk Adapter Pack installation guide.	
	Install	
	Step 1: Install Microsoft WCF LOB Adapter SDK.	
	Microsoft WCF LOB Adapter SDK needs to be installed with the following components:	
	 Runtime component is an essential part of the Bi2 laik Server platform. Tools component is required to develop applications using Visual Studio. 	
	Step 2: Install Microsoft BizTalk Adapter Pack.	
	Microsoft Biz Talk Adapter Pack needs to be installed.	
	Step 3: Install Microsoft BizTalk Adapter Pack(x64).	
	Microsoft Biz Talk Adapter Pack(x64) needs to be installed.	
THE	Step 4: Install Microsoft BizTalk Adapters for Enterprise Applications.	
A	Microsoft Biz Talk Adapters for Enterprise Applications needs to be installed.	
IL Se	arver 2012	ot

- The WCF LOB Adapter SDK is a collection of a run-time engine and tools that help adapter developers create service-oriented interfaces to existing LOB systems by using WCF. The goal of the SDK is to facilitate uniform development of reusable, metadata-oriented, WCF-based adapters that enable enterprise applications, databases, and messaging platforms to integrate with each other.
- On the Welcome to the Windows Communication Foundation LOB adapter SDK Setup Wizard screen, click "Next"

谢 Windows Communication Foundation LOB Adapter SD 🗖 🗖 🗙		
S	Welcome to the Windows Communication Foundation LOB Adapter SDK Setup Wizard	
	The Setup Wizard will install Windows Communication Foundation LOB Adapter SDK on your computer. Click Next to continue or Cancel to exit the Setup Wizard.	
	Back Next Cancel	

• On the End-User License Agreement screen, select "I accept the terms in the License Agreement" to accept the license agreement and click "Next"

😸 Windows Communication Foundation LOB Adapter SD 💶 💌
End-User License Agreement Please read the following license agreement carefully
MICROSOFT BIZTALK SERVER ADAPTER PACK MICROSOFT BIZTALK SERVER ADAPTER FOR ENTERPRISE APPLICATIONS MICROSOFT BIZTALK SERVER ENTERPRISE SERVICE BUS (ESB) TOOLKIT MICROSOFT BIZTALK SERVER ACCELERATOR FOR HL7 MICROSOFT BIZTALK SERVER ACCELERATOR FOR ROSETTANET MICROSOFT BIZTALK SERVER ACCELERATOR FOR ROSETTANET MICROSOFT BIZTALK SERVER ACCELERATOR FOR A4SWIFT MICROSOFT BIZTALK SERVER FILEACT_INTERACT ADAPTERS FOR SWIFT MICROSOFT UNIVERSAL DESCRIPTION. DISCOVERY AND
Print Back Next Cancel

- In the Choose Setup Type screen, select the installation type "Complete":
 - Typical: will install the common run time and tools,
 - Custom: will allow you to select the features that you want to install and the installation location.

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• Complete: will install all the features.

😸 Windows Communication Foundation LOB Adapter SD 💶 🗷
Choose Setup Type Choose the setup type that best suits your needs
Typical Installs the most common program features. Recommended for most users.
Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
Complete All program features will be installed. Requires the most disk space.
Back Next Cancel
On the Ready to install WCF LOB adapter SDK screen, click "Install"



 On the Completed the Windows Communication Foundation LOB Adapter SDK Setup Wizard screen, click "Finish"



 Back to the Start screen, the second step is installation of the Adapter Pack (x86), select the "Step 2. Install Microsoft BizTalk Adapter Pack". An installer of SDK is launched.





- Microsoft BizTalk Adapter Pack Setup

 Welcome to the Microsoft BizTalk Adapter Pack Setup Wizard

 Microsoft BizTalk Adapter Pack Setup Wizard

 The Setup Wizard will install Microsoft BizTalk Adapter Pack on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

 Back
 Next
- On the End-User License Agreement screen, select "I accept the terms in the License Agreement" to accept the license agreement and click "Next"



- In the Choose Setup Type screen, select the installation type "Complete":
 - Typical: will install the common run time and tools,
 - Custom: will allow you to select the features that you want to install and the installation location.
 - Complete: will install all the features.

岁 Microsoft BizTalk Adapter Pac	ck Setup 📃 🗖 🗙
Choose Setup Type Choose the setup type that best suits your needs	Ð
Typical Installs the most common program features. Reco	ommended for most users.
Custom Allows users to choose which program features w they will be installed. Recommended for advanced	vill be installed and where d users.
Complete All program features will be installed. Requires the	e most disk space.
Back	Next Cancel

On the Ready to install Microsoft BizTalk Adapter Pack screen, click "Install"

闄	Microsoft BizTalk Adapter Pack Setup	- 🗆 X
Re	ady to install Microsoft BizTalk Adapter Pack	Ð
C	Click Install to begin the installation. Click Back to review or change any of y stallation settings. Click Cancel to exit the wizard.	bur
	Back Install	Cancel

• On the Customer Experience Improvement Program screen, select if you want to join the customer experience improvement program or not and click "OK"



On the Completed the Microsoft BizTalk Adapter Pack Setup Wizard screen, click "Finish"

岁 Micros	Microsoft BizTalk Adapter Pack Setup			
S	Completed the Microsoft BizTalk Adapter Pack Setup Wizard			
	Click the Finish button to exit the Setup Wizard.			
	Please refer to the Supported Enterprise Application Versions section in the Installation Guide for LOB Client Requirements for the Adapters.			
	Back Finish Cancel			

Back to the Start screen, the next step is installing the Microsoft BizTalk Adapter Pack (x64) - note that before you
install this pack you have to install x86 first - select the "Step 3. Install Microsoft BizTalk Adapter Pack(x64)". An
installer of SDK is launched.



On the Welcome to the Microsoft BizTalk Adapter Pack(x64) Setup Wizard screen, click "Next"

😥 Microsof	t BizTalk Adapter Pack(x64) Setup 🔄 🗖 🗙
S	Welcome to the Microsoft BizTalk Adapter Pack(x64) Setup Wizard
	The Setup Wizard will install Microsoft BizTalk Adapter Pack(x64) on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

• On the End-User License Agreement screen, select "I accept the terms in the License Agreement" to accept the license agreement and click "Next"



- In the Choose Setup Type screen, select the installation type "Complete":
 - Typical: will install the common run time and tools,
 - Custom: will allow you to select the features that you want to install and the installation location.
 - Complete: will install all the features.

岁 Microsoft BizTalk Adapter Pack(x64) Setup 💶 🗴
Choose Setup Type Choose the setup type that best suits your needs
Typical Installs the most common program features. Recommended for most users.
Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users. Complete All program features will be installed. Requires the most disk space.
Back Next Cancel

On the Ready to install Microsoft BizTalk Adapter Pack(x64), click "Install"

闄	Microsoft BizTalk Adapter Pack(x64) Setup	
Read	dy to install Microsoft BizTalk Adapter Pack(x64)	\odot
Clid	ck Install to begin the installation. Click Back to review or change any of your tallation settings. Click Cancel to exit the wizard.	
	Back Install	Cancel

 On the Customer Experience Improvement Program screen, select if you want to join the customer experience improvement program or not and click "OK"





On the Completed the Microsoft BizTalk Adapter Pack(x64) Setup Wizard screen, click "Finish"



• Back to the Start screen, the final step is installing the Microsoft BizTalk Adapters for Enterprise Applications, select the "Step 4. Install Microsoft BizTalk Adapters for Enterprise Applications". An installer of SDK is launched.



 On the Welcome to the Microsoft BizTalk Adapters for Enterprise Applications Setup Wizard screen, click "Next"



• On the End-User License Agreement screen, select "I accept the terms in the License Agreement" to accept the license agreement and click "Next"



In the Customer Information screen, type your User Name and Organization and click "Next" to continue.

岁 Microsoft BizTalk Adapters for Enterprise Applications Setup	x
Customer Information Please enter your customer information	
User Name: Sandro Pereira Organization: DevScope	
< Back Next > Cancel	

- In the Choose Setup Type screen, select the installation type "Complete":
 - Custom: will allow you to select the features that you want to install and the installation location.
 - Complete: will install all the features.



 On the Choose Destination Location screen, choose the folder location that to want to install this features and click "Next"



• On the Ready to install screen, click "Install"



 On the Completed the Microsoft BizTalk Adapters for Enterprise Applications Setup Wizard screen, click "Finish"



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• Close the Start screen, click "Exit".



4.5.1 Microsoft BizTalk Adapter Pack and Microsoft BizTalk Adapter Pack (x64)

If I'm preparing an x64 environment machine why do I need to install both x86 and x64 Microsoft BizTalk Adapter Pack and not only x64 pack?

On any computer where you want to perform design-time tasks using either Visual Studio or BizTalk MMC, you must install the 32-bit adapter because:

- BizTalk Server Administration console runs as a 32-bit Microsoft Management Console (MMC) application.
- Visual Studio is also a 32-bit application (and there isn't any 64-bit version of Visual Studio)

However for BizTalk run time perspective:

- If you want to run the adapters under a 32-bit BizTalk process (Host Instance): you need to install Microsoft BizTalk Adapter Pack.
- If you want to run the adapters under a 64-bit BizTalk process (Host Instance): you need to install Microsoft BizTalk Adapter Pack (x64).

So you always have to install Microsoft BizTalk Adapter Pack, or in other cases, you always need to install the 32-bit adapter if you want to perform any operation at design-time, especially, configuring the adapters in the administrative console.

4.5.2 Add adapters to BizTalk Administration Console

As it happens with all adapters that we installed on our BizTalk Servers before we can begin to use it we need to register or add the adapter. So the next step is adding the appropriate adapters in BizTalk Administration Console. To accomplish that we need to:

- Open BizTalk Administration Console by pressing the "Windows key" to switch to Start screen and type "BizTalk Server Administration" or "BizTalk", right-click "BizTalk Server Administration" option on Apps menu
- In the console left tree, expand "BizTalk Server Administration -> BizTalk Group -> Platform Settings" and then "Adapters"

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• Right-click on "Adapters" and add a new adapter by selecting the option "New -> Adapter"

R	BizTalk Server Admir	istration Console		_ 0 ×
File Action View Help				
🗢 🔿 🔼 🖸				
Console Root				Actions
BizTalk Server Administration				Adapters
BIZTAIK Group [BIS2013LAB01:BIZTAIKNigmtDb]	Adapter Name	Comment	Is Configured	New
Parties	D FILE	FILE adapter	Yes	View
Platform Settings	FTP FTP	FTP adapter	Yes	
Hosts	🔁 НТТР	HTTP adapter	Yes	Q Kerresh
listances	MQSeries	MQSeries adapter	Yes	🛿 Help
D Servers	MSMQ	MSMQ adapter	Yes	Selected Item
Adapters	POP3	POP3 adapter	Yes	New 🕨
▶ 🛃 Event Viewer (Loca New ► Adapter	r ssaging	Adapter for communicating	Yes	Delete
Refresh	SFTP SFTP	Adapter for communicating	Yes	Befreeh
Help	SMTP	SMTP adapter	Yes	Kerresh
Tieb	SOAP	SOAP adapter	Yes	Properties
	SQL	SQL adapter	Yes	🧗 Help
	WCF-BasicHttp	Windows Communication Fo	Yes	
	WCF-BasicHttpRelay	Windows Communication Fo	Yes	
	WCF-Custom	Windows Communication Fo	Yes	
	WCF-Customisolated	Windows Communication Fo	Yes	
	WCF-NetMsmq	Windows Communication Fo	Yes	
	WCF-NetNamedPipe	Windows Communication Fo	Yes	
	WCF-NetTcp	Windows Communication Fo	Yes	
	WCF-NetTcpRelay	Windows Communication Fo	Yes	
	WCF-WebHttp	Windows Communication Fo	Yes	
	WCF-WSHttp	Windows Communication Fo	Yes	
	Windows SharePoint Services	Windows SharePoint Servic	Yes	

• In the "Adapter Properties" window

- In the Name box, type a descriptive name for this adapter.
- In the Adapter combo box, select the adapter from the drop-down that you want to add.
- In the Description box, type a description for the adapter (this is optional).

þ	WCF-OracleDB - Adapter Properties			
General	General			
	Adapters enable biz raik Server to communicate with external systems.			
	Name:	WCF-OracleDB		
	Adapter:	WCF-OracleDB	v	
	Dessistions			
	The Oracle Adapter (i.e. OracleDb Binding) provides access to Oracle Database			
	tables, views, stored procedures, functions, and PL/SQL packages. Timed polling is also provided, allowing applications to periodically look for changes in the database.			
Help	,	OK Cancel Apply		

- Click "OK" to complete the process of adding the adapter.
- Repeat steps to add the other adapters.

NOTE: This configurations requires that you restart the host instance associated with the adapter.

4.6 Install and Configure Microsoft UDDI Services

UDDI Services provides Universal Description, Discovery, and Integration (UDDI) capabilities for sharing information about Web services within an organization's intranet, between business partners on an extranet, or on the Internet. UDDI Services can help improve the productivity of developers and information technology (IT) professionals with more reliable and manageable applications. With UDDI Services you can prevent duplication of effort by promoting reuse of existing development work.

In a stand-alone installation, all default and optional components are installed on a single server. An instance of SQL Server must be installed before installing UDDI Services. When installing UDDI Services, the local instance of SQL Server is used to host the UDDI Services Database. UDDI Services Web Application and Notification Service are then configured to use the local UDDI Services Database.

To install Microsoft UDDI Services:

- Close all applications before running setup. Run the BizTalk Server 2013 installer as Administrator.
- On the Start screen, click "Install Microsoft UDDI Services"



• On the License Agreement screen, select "Yes, I accept the terms in the license agreement" to accept the license agreement and click "Next"

	Microsoft UDDI Services Installation Wizard
L	icense Agreement Please read the following license agreement carefully.
T A	o continue with Microsoft UDDI Services setup, please read and accept the terms of the License greement below.
	BUSINESS (LOB) ADAPTERS SDK MICROSOFT BIZTALK SERVER RFID MICROSOFT BIZTALK SERVER RFID MOBILE
 	PLEASE NOTE: Refer to your license terms for Microsoft BizTalk Server software (the "software") to identify the entity licensing this supplement to you and for support information. You may use a copy of this supplement with each validly icensed copy of the software. You may not use the supplement if you do not have a icense for the software. The license terms for the software apply to your use of this supplement.
(• Yes, I accept the terms of the license agreement O No, I do not accept the terms in the license agreement
	Help < Back Next > Cancel

- On the Component Installation screen:
 - o In "Available Components": select and click from the available components you want to install
 - In "Install To": specify a location to install UDDI Services components
 - And then click "Next" to continue

Microsoft UDDI Services Installation Wizard				
Component Installation Select components.				
Available components:	Description			
Administration Tools Developer Tools and SDK Database Component Web Application Notification Service	Selecting the Notification Service component installs the necessary software that provides notifications on service metadata based on user subscriptions. For more information on this component, click Help. Space required: 5,90 MB			
	Space Required on C: 123,04 MB			
	Space Allocation Details			
Install to: C:\Program Files (x86)\Microsoft UDDI Services\ Browse				
Help < Back Next > Cancel				

• On the Summary screen, review installation details and then click Install.

Microsoft UDDI Services Installation Wizard	x
Summary Review components to be installed.	
To start the installation, click Install. To make changes, click Back.	
Microsoft UDDI Services Components The following components will be installed:	^
- Database Component - Web Application - Notification Service - Administration Tools - Developer Tools and SDK	
It may be necessary to stop one or more system services during installation. F information on the affected services, click Help. You can add or remove additional components after this installation using the "Microsoft UDDI Services" entry in the Add/Remove section of the Control Pane	or el.
Help < Back Install Cano	;el

• On the Installation Completed screen, select "Launch Microsoft UDDI Services Configuration" option and then click "Finish" to start the UDDI Services configuration.

Micro	osoft UDDI Services Installation Wizard
No.	Installation Completed
BizTalk Server 2013	You have successfully installed Microsoft UDDI Services.
	A <u>Logfile</u> has been created in your temp directory.
	✓ Launch Microsoft UDDI Services Configuration
	To close this wizard, click Finish.
Help	< Back Finish Cancel

- On the Microsoft UDDI Services Configuration screen, apply the following configurations and then click "Configure" to continue:
 - Select "Basic configuration" option
 - In the "Database server name" field under "Database" properties, enter the name of the local computer that will hosts the UDDI database.
 - In the "Service credential" properties, type the User name and Password for the account that the UDDI services will run under.

Microsoft BizTalk Ser	ver Configuration - Start
Microsoft UDDI Services Configuration	
Choose default or custom configuration, and then enter the da	stabase and service credential information.
Basic configuration Custom configuration	
Vou have selected basic configuration (recommended for first til	ma urerr)
Use this option to configure the server with default settings. Afte information, click Configure. If BizTalk was already configured on this machine or if the datab	er you enter the default database name and credential account ase server is not local, use custom configuration.
Enter the database and service credential information: Database	Service credential
Type the name of the computer where SQL Server is installed. If you select the basic configuration option, all databases will be created on this server. If you select the custom configuration option, this value will be used as the default value for all databases which you can later customize.	Type the user name and password for the account that the services will run under. If you select the basic configuration option, all services will run under this account. If you select the custom configuration option, this value will be used as the default value for all services which you can later customize.
Database server name:	User name:
BTS2013LAB01	Administrator Browse
·	Password:
	•••••••
Help	Configure Cancel

 Note: You may receive a warning if you enter a user name with administrative credentials on this computer. Click "Yes" to continue.



- On the Summary screen, review configuration information, and then click "Next"
 - You may receive an warning on the UDDI Services Notification Service, don't worry, we'll deal with that later

(B)	Microsoft BizTalk Server Configuration Wizard	x
Su	Immary Summary of the configuration about to be performed	
Cc	Microsoft UDDI Services Configuration UDDI Services Database Component UDDI Services Web Application UDDI Services Notification Service (Will be skipped due to validation error)	
Wi wil fol	arning!!! There are validation errors with your configuration. If you continue, not all of the features II be configured. To view the validation error, expand the components that are identified with the Ilowing icon: 🔂. Click Back to return to the Configuration Wizard.Select custom configuration to	`
	Help <a>K Sack Next > Cance	

- On the Completed screen, review configuration information:
 - If UDDI Services Notification Service is failed, which is the case
 - Select "Launch Custom Configuration" option
 - And then click "Finish"

Mic	rosoft BizTalk Server Configuration	Wizard
Microsoft BizTalk: Server 2013	Configuration failed for some compone for those components. Configuration results are listed in the fo file to determine how to correct this pro	ents and no settings were applied llowing table. Please review the log Iblem.
	Feature Name	Configuration Result
	UDDI Services Database Compo	Success
	 UDDI Services Web Application UDDI Services Notification Service 	Success Failed
	 Launch Custom Configuration A Logfile has been created in your temp 	directory.
	To learn more about the features, tools, <u>Started with Microsoft UDDI Services</u> in t	and technologies, see <u>Getting</u> the product documentation.
Help	< Back	Finish Cancel

- On the Microsoft BizTalk Server Configuration (UDDI) screen, from the left pane, select "UDDI Services Notification Service" option and configure the following settings:
 - Select "Enable UDDI Services Notification Service" option
 - Under "Windows Service", set the service account under which the UDDI Notification Service runs.
 - Under "SMTP", type the SMTP server for sending e-mail notifications.
 - Under "E-mail address", type the address of the e-mail account used for sending e-mail notifications.
 - Under "SMTP Authentication", specify the type of authentication used when authenticating with the SMTP server.



• When finish, click "Apply Configuration"

- By	Microsoft BizTalk Se	rver Configurat	tion 📃 🗖 🗙		
File Actions View Help					
🚽 Apply Configuration 📴 Imp	ort Configuration 🔄 Export Configur	ation 🕤 Unconfi	gure Features		
Overview UDDI Services Database Con	UDDI Services Notification Service				
UDDI Services Web Applicat UDDI Services Notification S	UDDI Services Notification Service p of service metadata.	UDDI Services Notification Service provides subscription based notifications on user defined collection of service metadata.			
	Enable UDDI Services Notification	n Service			
	Data store:	Server Name	Database Name		
		Activel Manne	Valabase Mairie		
	Windows service:	Windows service:			
	Name	A	ccount		
	UDDI Notification Service Accord	ount A	dministrator		
	SMTP Server: localhost				
	E-mail address:	sandro.	pereir@devscope.net		
	SMTP Authentication:				
	 Anonymous authentication Windows authentication using the 	ne windows service	credentials		
	O Basic authentication				
	User name:				
	Password:				
< III >	Confirm password:				

- Click "Apply Configuration" to apply the configuration that you made.
- On the Summary screen, review configuration information, and then click "Next"

Microsoft BizTalk Server Configuration Wizard	x
Summary Summary of the configuration about to be performed	
Components being configured:	
Help Car	ncel

On the Completed screen, review configuration information and then click "Finish"



4.6.1Verify Your Installation

To verify that Microsoft UDDI Services is installed correctly:

- Open Internet Explorer and type http://localhost/uddi, and then hit Enter
 - o If UDDI Services is installed correctly, you will see the Welcome to Microsoft UDDI Services page.

E trees	//localhost/uddi/		ନ - ୭୯	<i> </i> UDDI Services	×			ŵ	★ 🌣
uddi						ι	Jser: BTS2013LAB0 Role	1\Admir :: Admir	iistrator iistrator
Services Home Search F	Publish Subscribe	Coordinate				Quick Help	UDDI Services Help	×	Go
Welcome to Mie	crosoft UDDI Serv	vices							
UDDI Services is a N locate, and invoke s	Microsoft .NET-based to ervices within your en	ool that enables Universal Disco terprise or between business pa	overy, Descript artners.	ion, and Integration	(UDDI) for XML We	b services. With	UDDI Services, you	ı can pu	blish,
Getting Started									
Before you publis searching, view t specifications.	sh a service, we strong he Quick Help options	ly recommend reading the Step above. Visit Additional Resourc	o-by-Step guid es on the Web	e listed below. For a for more informatio	n overview of basic n about planning, de	concepts and te eployment, trou	erminology, or for he bleshooting, or UDD	lp with I	
	Step-by-Step Guide /iew a step-by-step gu	ide to publishing a Web service	in UDDI Servi	ces.					
(<u>)</u>	Additional UDDI Res /iew additional resourc	ources on the Web res for planning, deploying, pub	lishing, and tre	publeshooting with U	JDDI Services.				

Version: 6.10.229.0

4.7 Install and Configure the Microsoft BizTalk ESB Toolkit

BizTalk Server includes a powerful publish/subscribe mechanism for messaging applications that works by creating and filling subscriptions, which provides a highly efficient and scalable platform for service-oriented architecture (SOA)
BizTalk36C

applications. The BizTalk ESB Toolkit extends the functionality of BizTalk Server to provide a range of new capabilities focused on building robust, connected, service-oriented applications that incorporate itinerary-based service invocation for lightweight service composition, dynamic resolution of endpoints and maps, Web service and WS-* integration, fault management and reporting, and integration with third-party SOA governance solutions.

The good news is that with BizTalk Server 2013, Microsoft BizTalk ESB Toolkit is integrated with the BizTalk Server setup.

To install the Microsoft BizTalk ESB Toolkit

- Close any programs you have open. Run the BizTalk Server 2013 installer as Administrator.
- On the BizTalk Server installation Start screen, click "Install Microsoft BizTalk ESB Toolkit".



• On the License Agreement screen, select "Yes, I accept the terms of the license agreement" to accept the license agreement and click "Next"



Microsoft BizTalk ESB Toolkit 2.2 Installation Wizard
License Agreement Please read the following license agreement carefully.
To continue with Microsoft BizTalk ESB Toolkit 2.2 setup, please read and accept the terms of the License Agreement below.
MICROSOFT BIZTALK SERVER ADAPTER PACK
MICROSOFT BIZTALK SERVER ADAPTER FOR ENTERPRISE APPLICATIONS MICROSOFT BIZTALK SERVER ENTERPRISE SERVICE BUS (ESB) TOOLKIT MICROSOFT BIZTALK SERVER ACCELERATOR FOR HL7
MICROSOFT BIZTALK SERVER ACCELERATOR FOR ROSETTANET MICROSOFT BIZTALK SERVER ACCELERATOR FOR A4SWIFT
MICROSOFT BIZTALK SERVER FILEACT_INTERACT ADAPTERS FOR SWIFT MICROSOFT UNIVERSAL DESCRIPTION, DISCOVERY AND INTEGRATION (UDDI)
SERVICES MICROSOFT WINDOWS COMMUNICATION FOUNDATION (WCF) LINE OF
Vas accent the tame of the license arreement
No. I do not accept the terms in the license agreement
< Back Next > Cancel

• On the Component Installation screen, select the components you want to install and then click "Next"

Microsoft BizTalk ESB Too	Ikit 2.2 Installation Wizard
Component Installation Select components.	
Available components:	Description
Bur Talk ESB Toolkit 2.2	Space required: 19,44 MB
	Space Required on C: 136,74 MB
Install to: C:\Program Files (x86)\Mic	Space Allocation Details rosoft BizTalk ESB Toolkit\ Browse
< B	ack Next > Cancel

• On the Summary screen, review installation details and then click Install.

	Microsoft BizTalk ESB Toolkit 2.2 Installation Wizard
:	Summary Review components to be installed.
	To start the installation, click Install. To make changes, click Back.
	Microsoft BizTalk ESB Toolkit 2.2 Components The following components will be installed:
	- Tools - BizTalk ESB Toolkit 2.2 - Samples - ExceptionManagement - Apps - Itinerary - JMS
	It may be necessary to stop one or more system services during installation. For information on the affected services, click Help. You can add or remove additional components after this installation using the "Microsoft BizTalk ESB Toolkit 2.2" entry in the Add/Remove section of the Control Panel.
	< Back Install Cancel

• On the Installation Completed screen, click "Finish" to close the installation wizard.

Microsoft	BizTalk ESB Toolkit 2.2 Installation Wizard	x
No.	Installation Completed	
BizTalk: Server 2013	You have successfully installed Microsoft BizTalk ESB Toolkit 2.2.	
	A <u>Logfile</u> has been created in your temp directory.	
	To close this wizard, click Finish.	
	< Back Finish Cancel	

To configure the Microsoft BizTalk ESB Toolkit

- Press the "Windows key" to switch to Start screen and type "ESB Configuration tool" or "ESB", right-click "ESB Configuration tool" option on Apps menu, and then click "Run as Administrator".
 - Note: You must run the ESB Configuration Tool as an administrator.



- In the ESB Configuration Tool screen, from the left pane, select "ESB Configuration" and on the right pane:
 - For "Database Server (Defaults)": specify the database server name where the databases required for BizTalk ESB Toolkit will be created.
 - In the "IIS Web Services (Defaults)" box:
 - Specify the user credentials under which the applications required for BizTalk ESB Toolkit will be created.
 - Also specify the name of the website in IIS under which the applications will be created.
 - The "BizTalk User Groups (Defaults)" box lists the default user groups available for ESB configuration.
 - Leave the default values
 - Important: At this stage, you can click "Apply Configuration" towards the top of the ESB Configuration Tool to configure the Microsoft BizTalk ESB Toolkit with the default settings. However, we will continue to configure the remains steps for a custom configuration.

File Help
Apply Configuration Unconfigure Feature ESB Configuration Configuration
User Account: BTS2013LAB01\Administrator
User Account Password: •••••••••• Website Name: Default Web Site V
BizTalk User Groups (Defaults) BizTalk Administrators Group: BTS2013LAB01\BizTalk Server Administra BizTalk Host Users Group: BTS2013LAB01\BizTalk Application Users BizTalk Isolated Host Users Group: BTS2013LAB01\BizTalk Isolated Host User
< III >
Status: EsbBizTalkApplications: Configured

- From the left pane, expand "Exception Management" and do the following:
 - Click in the "Database" option and on the right pane:
 - Select "Enable Exception Management Database" check box to configure an exception management database.
 - In "Database server name": specify the database server name where you want to create this database (specify the same database server name that you specify in the ESB Configuration panel under Database Server (Default) option)
 - In "Database name": leave the default name "EsbExceptionDb".
 - Leave the default groups

0	ESB Configuration Tool 📃 🗖 🗙	
File Help		
🖉 Apply Configuration 🕤 Unconf	igure Feature	
ESB Configuration Exception Management Database Exception Web Services ESB Core Components Configuration ESB Biz Talk Applications	Configuration ✓ Enable Exception Management Database □ Use Existing Database Database server name: BTS2013LAB01 Database name: EsbExceptionDb BizTalk Admin Group name: BTS2013LAB01\BizTalk Server Administr. Image: BTS2013LAB01\BizTalk Application User Image: BTS2013LAB01\BizTalk Application User	
< III >		
Status: EsbBizTalkApplications: Configured		

• Click on the "Exception Web Services" option from the left pane and on the right pane:

- Select "Enable Exception Services" check box to configure these services.
- In "User Account" and "user Account Password": specify the user account and password under which this services will run.
- In "BizTalk Isolated Group" Leave the default value "BizTalk isolated Host Users"
- In "Website Name": specify the website where you want to run these services.

0	ESB Configuration Tool 📃 🗖 🗙
File Help	
File Help Apply Configuration S Unconfiguration ESB Configuration Exception Management Database Esception Web Services ESB Core Components Configuration ESB Biz Talk Applications	gure Feature Configuration Configuration Enable Exception Services User Account: BTS2013LAB01\Administrator User Account Password: BizTalk Isolated Group: BTS2013LAB01\BizTalk Isolated Host Users BizTalk Isolated Group: Default Web Site Enable Handling Services (ASMX) Enable Handling Services (WCF)
< III > Status: EsbBizTalkApplications: Config	gured

- From the left pane, expand "ESB Core Components", and do the following:
 - Click the "Itinerary Database" option and on the right pane:
 - Select the "Itinerary Database" check box to configure an itinerary database.
 - In "Database server name": specify the database server name where you want to create this database (specify the same database server name that you specify in the ESB Configuration panel under Database Server (Default) option)
 - In "Database name": leave the default name "EsbItineraryDb".
 - Leave the default groups

0	ESB Configuration Tool 📃 🗖 🗙	
File Help		
🖉 Apply Configuration 🕤 Unconfigure Feature		
ESB Configuration Database Exception Web Services ESB Core Components Core Web Services Configuration ESB Biz Talk Applications	Configuration ✓ Itinerary Database □ Use Existing Database Database server name: BTS2013LAB01 Database name: EsbItineraryDb BizTalk Isolated Host Group name: BTS2013LAB01\BizTalk Isolated Host Use BizTalk App Group name: BTS2013LAB01\BizTalk Application Users BizTalk Admin Group name: BTS2013LAB01\BizTalk Server Administra	
< III >		
Status: EsbBizTalkApplications: Configured		

- Click on the "Core Web Services" option from the left pane and on the right pane:
 - Select the "Enable Core Services" check box to configure these services.
 - In "User Account" and "user Account Password": specify the user account and password under which this services will run.
 - In "BizTalk Isolated Host Group" Leave the default value "BizTalk isolated Host Users"
 - In "Website Name": specify the website where you want to run these services.

0	ESB Configuration Tool			
File Help				
Apply Configuration 🕤 Unconf	igure Feature			
ESB Configuration Configuration Exception Management Database Exception Web Services ESB Core Components Itinerary Database Core Web Services Configuration ESB Biz Talk Applications	Configuration Image: Configuration Image: Configuration User Account: BTS2013LAB01\Administrator User Account Password: Image: Configuration Image: Default Web Site Image: Configuration Image: Default Web Site Image: Resolution Services Image: Resolution Services			
< III >				
Status: EsbBizTalkApplications: Configured				

- From the left pane, click "Configuration" to specify the SSO configuration.
 - If you are installing and configuring the Microsoft BizTalk ESB Toolkit in a single server environment, you should select "File Configuration Source", which is the default selection. However, if you are setting up a multiple-machine deployment, you must select the "SSO Configuration Source", and then provide the following values.
 - SSO Server: Name of the SSO server.
 - Configuration file: Click the ellipsis button (...), and then browse to the Esb.config file, which is included in the Microsoft BizTalk ESB Toolkit
 - Application Name: Type a name for the SSO application. For example, ESB Toolkit.
 - Contact Information: Type the appropriate contact information in the following format: someone@example.com.
 - Administrator Group Name: Click the ellipsis button (...), and then browse to the appropriate name

- User Group Name: Click the ellipsis button (...), and then browse to the appropriate name
- Select "File Configuration Source"

0	ESB Configuration Tool			
File Help				
Apply Configuration 🕤 Unconfigure Feature				
ESB Configuration Exception Management Database Exception Web Services ESB Core Components Core Web Services Configuration ESB BizTalk Applications	Configuration Image: Sign of the system of the sy			
< III >				
Status: EsbBizTalkApplications: Configured				

Click "Apply Configuration" on the top of the ESB Configuration Tool to configure the Microsoft BizTalk ESB Toolkit.
 Open IIS and notice that the applications required for Microsoft BizTalk ESB Toolkit are now created under the website you specified.



- Back to the "ESB Configuration Tool", from the left pane, click "ESB BizTalk Applications" option, from the right pane, do the following:
 - Select the "Enable ESB Core Components in BizTalk Server" check box to create the application in the BizTalk Server Administration console.
 - Select the "Use Default Binding" to bind this application to the default host.



- Optional you can select the "Do not use Default Binding" if you do not want to bind the application to the default host. In such a case, you must explicitly bind the application to a host, once the application is created.
- Select the "Enable ESB JMS/WMQ Components in BizTalk Server" check box to create the application in the BizTalk Server Administration console.
 - Select the "Use Default Binding" to bind this application to the default host.
 - Optional you select the "Do not use Default Binding" if you do not want to bind the application to the default host. In such a case, you must explicitly bind the application to a host, once the application is created.

9	ESB Configuration Tool	_ 🗆 X		
File Help				
🖉 Apply Configuration 🕤 Unconfigure Feature				
ESB Configuration Configuration Configuration Core Web Services Configuration ESB BizTalk Applications	Configuration	ierver		
Status: Permissions were granted.				

• Click "Apply Configuration" on the top of the ESB Configuration Tool to create the applications you selected. Verify that the applications are created in the BizTalk Server Administration console.



4.8 Install Critical Windows Updates and BizTalk Server Cumulative Update Package

Once again, after all of this installations, I like to do a Windows update and if necessary restart the server, this step is not necessary.

However I will like to mention that until this date there's already one Cumulative Update for BizTalk Server 2013 (<u>Cumulative update package 1 for BizTalk Server 2013</u>) that you should install to solve or fix minor problems that were detected.

Another great news in BizTalk Server 2013 is that cumulative packages for BizTalk Server will be available and delivery using Microsoft Update:

- Check for windows update
- Notice available fixes for BizTalk Server under optional updates
- Select the update and install

The CU will also be available through the hotfix download as well.

4.9 Configure BizTalk Server SQL Jobs

BizTalk Server databases and their health are very important for a successful BizTalk Server database messaging environment. BizTalk is shipped out with a total of 13 SQL Agent jobs. By default, the following BizTalk jobs aren't configured and enabled upon installation.

- Backup BizTalk Server (BizTalkMgmtDb)
- DTA Purge and Archive (BizTalkDTADb)
- MessageBox_Message_Cleanup_BizTalkMsgBoxDb

The two jobs that needs configuration are the two most important jobs: the "Backup BizTalk Server" and the "DTA Purge and Archive". If you want these functionalities you must configure and enabled them.



4.9.1 How to configure Backup BizTalk Server (BizTalkMgmtDb)

This is the job provided by Microsoft to do a best practice backup of the BizTalk databases. This job has to be configured for it to be able to run.

This Job consists of four steps:

- Step 1 Set Compression Option Enable or disable compression during backup.
- Step 2 BackupFull Performs full database backups of the BizTalk Server databases.
- Step 3 MarkAndBackUpLog Backs up the BizTalk Server database logs.
- Step 4 Clear Backup History Specifies for how long the backup history is kept.

To configure the Backup BizTalk Server job:

- Press the "Windows key" to switch to Start screen and type "SQL Management" or "SQL" and click in "SQL Server Management Studio" option on Apps menu.
- In Object Explorer panel, connect to the SQL Server instance and expand the server tree.
 - Expand the "SQL Server Agent" node
 - Expand "Jobs" node
- Double click "Backup BizTalk Server (BizTalkMgmtDb)" to open the job properties window.
- In the Job Properties Backup BizTalk Server (BizTalkMgmtDb) dialog box, under "Select a page", click "Steps".
- In the "Job step list", click in the job you want to edit, and then click "Edit"

ol	bb Properties - Backup BizTalk Server (BizTalkMgmtDb)	□ X			
Select a page	🛒 Script 🔻 🚺 Help				
General Steps Schedules	Job step list:				
Alerts Notifications Targets	St Name Type On Success On 1 Set Compression Option Transact Go to the Go 2 BackupFull Transact Go to the Qu 3 MarkAndBackupLog Transact Go to the Qu 4 Clear Backup History Transact Quit the j Qu	Failure to the n it the job it the job			
Connection Server: BTS2013LAB01 Connection: BTS2013LAB01\Administrator Image: View connection properties View connection properties	Move step: Start step:				
Ready	I:Set Compression Option New Insert Edit	✓			
	ОК	Cancel			

Step 1 – Set Compression Option

Since BizTalk Server 2010, BizTalk Server supports compression for its SQL Server database backups thereby providing some benefits like: less space needed for the backup files, fewer I/O operations for the backup and restore and so on.

This job step calls a stored procedure named sp_SetBackupCompression on the BizTalk management database (BizTalkMgmtDb by default) to set the value on the adm_BackupSettings table.

The original script is:

exec [dbo].[sp_SetBackupCompression] @bCompression = 0 /*0 - Do not use Compression, 1 - Use Compression */

The stored procedure has only one parameter:

• @bCompression: By default, Set Compression Option is set to 0, which makes backup compression off by default. To change the default, change Set Compression Option to 1.

Change the script to:

exec [dbo].[sp_SetBackupCompression] @bCompression = 1 /*0 - Do not use Compression, 1 - Use Compression */

Step 2 – BackupFull

The BackupFull step is responsible for performing a full backup of the database.

The original script is:

exec [dbo].[sp_BackupAllFull_Schedule] 'd' /* Frequency */, 'BTS' /* Name */, '<destination path>' /* location of backup files */

Where:

- Frequency: The default is d (daily). This is the recommended setting. Other values include h (hourly), w (weekly), m (monthly), or y (yearly).
- Name: The default is BTS. The name is used as part of the backup file name.
- Location of backup files: Replace '<destination path>' with the full path (the path must include the single quotes) to the computer and folder where you want to back up the BizTalk Server databases.

There are also three optional parameters:

- Force full backup after partial backup failures (@ForceFullBackupAfterPartialSetFailure): The default is 0 when not specified, which means that if a log backup fails, no full backups are done until the next full backup frequency interval is reached. Replace with 1 if you want a full backup to be made whenever a log backup failure occurs.
- Local time hour for the backup process to run (@BackupHour): The default is NULL when not specified, which means
 that backup job will not be associated with the time zone of the BizTalk Server computer and will run at midnight UTC
 time (0000). If you want to backup to run at a particular hour in the time zone of the BizTalk Server computer, specify
 an integer value from 0 (midnight) to 23 (11 PM) as the local time hour for the BackupHour parameter.
- Use local time (@UseLocalTime): This is an extra parameter that you can also add that tells the procedure to use local time
 - The default value is 0
 - If set to 0, then it uses current UTC time GETUTCDATE() 2007-05-04 01:34:11.933
 - If set to 1, then it uses local time GETDATE() 2007-05-03 18:34:11.933

Change the script to:

exec [dbo].[sp_BackupAllFull_Schedule] 'd' /* Frequency */, 'BTS' /* Name */, '<your_destination_path>\BizTalk Database\Full' /* location of backup files */

Step 3 – MarkAndBackUpLog

The MarkAndBackupLog step is responsible for marking the logs for backup, and then backing them up.

The original script is:

exec [dbo].[sp_MarkAll] 'BTS' /* Log mark name */, '<destination path>' /* location of backup files */

Where:

- @MarkName: Log mark name is part of the naming convention for backup files:
- @BackupPath:. You must change the destination path this to a valid one. It may be local or a UNC path to another server.

There is also one optional parameter:

@UseLocalTime: This is an extra parameter that you can also add that tells the procedure to use local time
 exec [dbo].[sp_MarkAll] 'BTS' /* Log mark name */, '<destination path>' /*location of backup files */, 1

Change the script to:

exec [dbo].[sp_MarkAll] 'BTS' /* Log mark name */, '< your_destination_path>\BizTalk Database\Logs' /* location of backup files */

Step 4 – Clear Backup History

The Clear Backup History step is responsible for perform a cleanup of the backup history according for how long a backup should be kept.

The original script clear out the instances in the MarkLog table older than 14 days:

exec [dbo].[sp_DeleteBackupHistory] @DaysToKeep=14

Where:

 @DaysToKeep: specifies how long the backup history is kept in the Adm_BackupHistory table. Periodically clearing the backup history helps to maintain the Adm_BackupHistory table at an appropriate size. The default value for the DaysToKeep parameter is 14 days.

There is also one optional parameter:

@UseLocalTime: This is an extra parameter that you can also add that tells the procedure to use local time
 exec [dbo].[sp_DeleteBackupHistory] @DaysToKeep=14, @UseLocalTime =1

In this particular case I like to leave the default settings.

NOTE: This job step does not provide functionality for deleting backup files that have accumulated over time.

You can solve this problem by implementing you custom sp_DeleteBackupHistory:

- Start SQL Server Management Studio, and then connect to the BizTalk Management Database. By default, this database is named BizTalkMgmtDb.
- Click New Query to open a Query Editor window.
- Run the following Transact-SQL script to create the sp_DeleteBackupHistoryAndFiles stored procedure:

CREATE PROCEDURE [dbo].[sp_DeleteBackupHistoryAndFiles] @DaysToKeep smallint = null

```
AS
BEGIN
 set nocount on
 IF @DaysToKeep IS NULL OR @DaysToKeep <= 1
   RETURN
 /* Only delete full sets
 If a set spans a day in such a way that some items fall into the deleted group and the other does not, do not delete the
set */
 DECLARE DeleteBackupFiles CURSOR
 FOR SELECT 'del "' + [BackupFileLocation] + '\' + [BackupFileName] + ''' FROM [adm BackupHistory]
 WHERE datediff(dd, [BackupDateTime], getdate()) >= @DaysToKeep
 AND [BackupSetId] NOT IN (SELECT [BackupSetId] FROM [dbo].[adm BackupHistory] [h2] WHERE [h2].[BackupSetId] =
[BackupSetId] AND datediff(dd, [h2].[BackupDateTime], getdate()) < @DaysToKeep)
 DECLARE @cmd varchar(400)
 OPEN DeleteBackupFiles
 FETCH NEXT FROM DeleteBackupFiles INTO @cmd
 WHILE (@@fetch_status <> -1)
 BEGIN
```

```
IF (@@fetch_status <> -2)
BEGIN
EXEC master.dbo.xp_cmdshell @cmd, NO_OUTPUT
delete from [adm_BackupHistory] WHERE CURRENT OF DeleteBackupFiles
print @cmd
END
FETCH NEXT FROM DeleteBackupFiles INTO @cmd
END
CLOSE DeleteBackupFiles
DEALLOCATE DeleteBackupFiles
END
GO
```

- You can find more information about this SQL script here: <u>http://support.microsoft.com/kb/982546</u>
- Change the "Clear Backup History" step of the Backup BizTalk Server job so that it calls the sp_DeleteBackupHistoryAndFiles stored procedure instead of the sp_DeleteBackupHistory stored procedure.

NOTE: However I don't like this approach and I really prefer to take advantage of all features that SQL gives me and create a maintenance plan with a Cleanup task to remove this files.

After properly configure, to enable the Backup BizTalk Server job:

 Under "Jobs" in SQL Server Management Studio Object Explorer, Right click in the name of the job "Backup BizTalk Server (BizTalkMgmtDb)" and select "Enable" option.


In the result screen, click "Close".



4.9.2 How to configure DTA Purge and Archive (BizTalkDTADb)

This job automates the archiving of tracked messages and the purging of the BizTalk Tracking database to maintain a healthy system and to keep the tracking data archived for future use.

And it's configured to call the stored procedure dtasp_BackupAndPurgeTrackingDatabase, which uses the six parameters you must configure in this job:

- @nLiveHours: Any completed instance older than the (live hours) + (live days) will be deleted along with all associated data. Default is 0 hours.
- @nLiveDays: Any completed instance older than the (live hours) + (live days) will be deleted along with all associated data. Default interval is 1 day.
- @nHardDeleteDays: All data (even if incomplete) older than this will be deleted. The time interval specified for HardDeleteDays should be greater than the live window of data. The live window of data is the interval of time for which you want to maintain tracking data in the BizTalk Tracking (BizTalkDTADb) database. Anything older than this interval is eligible to be archived at the next archive and then purged. Default is 30 days.
- @nvcFolder: Folder in which to put the backup files.
- @nvcValidatingServer: Server on which validation will be done. NULL value indicates no validation is being done.
 Default is NULL.
- @fForceBackup: Default is 0. This is reserved for future use.

To configure the DTA Purge and Archive job:

- Press the "Windows key" to switch to Start screen and type "SQL Management" or "SQL" and click in "SQL Server Management Studio" option on Apps menu.
- In Object Explorer panel, connect to the SQL Server instance and expand the server tree.
 - Expand the "SQL Server Agent" node
 - Expand "Jobs" node
- Double click "DTA Purge and Archive (BizTalkDTADb)" to open the job properties window.
- In the Job Properties DTA Purge and Archive (BizTalkDTADb) dialog box, under "Select a page", click "Steps".
- In the "Job step list", click Archive and Purge, and then click Edit.

Jo	b Properties - DTA P	urge and Archive (Bi	izTalkDTADb)) L	- 🗆 X	
Select a page General	🔄 Script 🔻 📭 Help					
Schedules	Job step list:					
Notifications	St Name		Туре	On Success	On Failure	
Targets	1 Archive and Purge	•	Transact	Quit the j	Quit the job	
Connection						
Server: BTS2013LAB01 Connection: BTS2013LAB01\Administrator						
View connection properties						
Progress	Move step:	Start step:				
Ready	New	1:Archive and Purge	Edit		✓	
				ОК	Cancel	

The original script after installing BizTalk looks like this:

exec dtasp_BackupAndPurgeTrackingDatabase

0, --@nLiveHours tinyint, --Any completed instance older than the live hours +live days

1, --@nLiveDays tinyint = 0, --will be deleted along with all associated data

30, --@nHardDeleteDays tinyint = 0, --all data older than this will be deleted.

null, --@nvcFolder nvarchar(1024) = null, --folder for backup files

null, --@nvcValidatingServer sysname = null,

0 --@fForceBackup int = 0 --

This means that:

- Any completed instance that is older than the live days plus live hours will be deleted, as will any associated data.
- Any data older than the HardDeleteDays will be deleted.

Normally I use these configurations for production environments:

exec dtasp_BackupAndPurgeTrackingDatabase 0, 10, 20, '<destination path>', null, 0

However in a development machine we don't need to maintain the archived tracking data, so I just purge it periodically. BizTalk gives you the option to Archive and Purge the tracking data or just simple purge the data without archiving:

Change the SQL Statement inside "DTA Purge and Achieve" SQL Job to

declare @dtLastBackup datetime set @dtLastBackup = GetUTCDate() exec dtasp_PurgeTrackingDatabase 1, 0, 7, @dtLastBackup

After properly configure, to enable the Backup BizTalk Server job:

- Under "Jobs" in SQL Server Management Studio Object Explorer, Right click in the name of the job "DTA Purge and Archive (BizTalkDTADb)" and select "Enable" option.
- In the result screen, click "Close".

4.9.3 MessageBox_Message_Cleanup_BizTalkMsgBoxDb

This job removes all messages that are not referenced by any subscribers in the BizTalkMsgBoxDb database tables.

IMPORTANT: This job is also started by the MessageBox_Message_ManageRefCountLog_BizTalkMsgBoxDb job. Therefore, we recommend that you disable this job.

4.10 Configure BizTalk Server Windows Services

By default, the "Startup type" propriety of BizTalk Windows Services, Enterprise Single Sign-On Service, Microsoft UDDI Notification Service and the new BAMAlerts service are set as "Automatic", however some of this Windows Services may not start automatically after a system restart, to avoid this behavior you must configure the "Startup type" to "Automatic (Delayed Start)" option in this services:

- BAMAlerts
- Microsoft UDDI Notification Service
- Rule Engine Update Service

Also in previous version (2006 R2, 2009, 2010) of BizTalk Server also had this problem for:

- Enterprise Single Sign-On Service
- BizTalk Service BizTalk Group : BizTalkServerApplication Service

That we manage to solve by also configuring the startup type of the service to: "Automatic (Delayed Start)"

However, despite this services (SSO and BizTalk Services) being configured by default as "Automatic", this problem has been resolved in this release on Windows Server 2012 and you don't need to configure them to "Automatic (Delayed Start)". Nevertheless if you are using other old SO versions supported by BizTalk Server 2013 you maybe need to apply this configuration to avoid possible issues.

Note: if you prefer you can also configure this services as "Automatic (Delayed Start)" on Windows Server 2012 without any impact.

To proper configure the "BAMAlerts" and "Microsoft UDDI Notification Service" Windows service:

 Press the "Windows key" to switch to Start screen and type "Services" and click in "View local services" option on Settings menu.

Settings Results for "services"	Search ^{Settings}
View local services	services X P
Allow remote access to your computer	Apps 8
Allow Remote Assistance invitations to be	Settings 5
Invite someone to connect to your PC and help you, or offer to help someone else	Files 0

 In the Services window, on the Services (Local) panel select the BAMAlerts service, right click and select "Properties" option.

		Services						x
File Action View Help								
⊨⇒ 🖬 🗟 è 🔒 🛛 🖬 🕨 🖬 🕨								
Services (Local)								
BAMAlerts	Name			Description	Status	Startup Type	Log On As	^
	Application Experience	1		Processes a		Manual (Trig	Local Syste	
Stop the service	Application Host Help	er Service		Provides ad	Running	Automatic	Local Syste	. =
Restart the service	Application Identity			Determines		Manual (Trig	Local Service	e 📃
	Application Informatio	'n		Facilitates t		Manual	Local Syste	
Description:	🏩 Application Layer Gate	way Service		Provides su		Manual	Local Service	e
Alert Host Service for BizTalk - BAM	🔍 Application Managem	ent		Processes in		Manual	Local Syste	
Alerts	🔍 ASP.NET State Service			Provides su		Manual	Network S	
	🌼 Background Intelligen	Transfer Service		Transfers fil		Manual	Local Syste	
	🔍 Background Tasks Infr	astructure Service		Windows in	Running	Automatic	Local Syste	
	AMAlerts	Start		Alert Host S	Running	Automatic (D	.\Administ	
	🧟 Base Filtering Engir	Ston		The Base Fil	Running	Automatic	Local Service	e
	BizTalk Service Biz1	Stop	plication	BizTalk Serv	Running	Automatic	.\Administ	.
	🔐 Certificate Propaga	Pause		Copies user	Running	Manual	Local Syste	-
	Claims to Windows	Resume		Service to c		Manual	Local Syste	•
	CNG Key Isolation	Restart		The CNG ke		Manual (Trig	Local Syste	-
	COM+ Event Syste	All Tasks 🕨		Supports Sy	Running	Automatic	Local Service	e
	COM+ System App	Defeash		Manages th	Running	Manual	Local Syste	-
	Computer Browser	Kerresh		Maintains a		Disabled	Local Syste	-
	Credential Manage	Properties		Provides se		Manual	Local Syste	-
	Cryptographic Serv	Help		Provides thr	Running	Automatic	Network S	
	COM Server Proc			The DCOM	Running	Automatic	Local Syste	• 🗸
Extended Standard								
hes the current selection.								

- On the BAMAlerts Properties (Local Computer) window:
 - On the General tab apply the following configuration.
 - Startup type: "Automatic (Delayed Start)"

BAN	Alerts Properties (Local Computer)		
General Log On	Recovery Dependencies		
Service name:	BAMAlerts		
Display name:	BAMAlerts		
Description:	Alert Host Service for BizTalk - BAM Alerts		
Path to executal "C:\Program File	ole: s (x86)\Microsoft BizTalk Server 2013\Tracking\BAMAlerts		
Startup type:	Automatic (Delayed Start)		
Help me configu	re service startup options.		
Service status:	Running		
Start	Stop Pause Resume		
You can specify the start parameters that apply when you start the service from here.			
Start parameters	:		
L	OK Cancel Apply		

- On the Recovery tab, apply the following configuration:
 - First failure: "Restart the Service"
 - Second failure: "Restart the Service"
 - Subsequent failures: "Restart the Service"
 - Reset fail count after ... day: 1
 - Restart service after ... minutes: 1

BAMAlerts Properties (Local Computer)					
General Log On Recovery	Dependencies				
Select the computer's response if this service fails. Help me set up recovery actions					
First failure:	Restart the Service 🗸				
Second failure:	Restart the Service 🗸				
Subsequent failures:	Restart the Service 🗸				
Reset fail count after:	1 days				
Restart service after:	Restart service after: 1 minutes				
Enable actions for stops wi	Enable actions for stops with errors. Restart Computer Options				
Run program					
Program:					
	Browse				
Command line parameters:					
OK Cancel Apply					

- Click "OK" to apply the changes and close the window
- Repeat the steps for the other services.

Appendix A: Hardware and Software Requirements

Hardware Requirements

The following table shows the minimum hardware requirements for your BizTalk Server computer. In a production environment, the volume of traffic may dictate greater hardware requirements for your servers.

Resource Id	Minimum Requirement			
Computer and	A computer with an Intel Pentium-compatible CPU that is:			
processor	 1 GHz or higher for single processors 			
	900 MHz or higher for double processors			
	 700 MHz or higher for quad processors 			
	 Notes: Hyper-Threading and Dual-Core processors are supported. The 64-bit versions of BizTalk Server require a 64-bit operating system running on an x64-based system. Computers based on CPUs that are compatible with the AMD64 (x86-64) and Extended Memory 64-bit Technology (EM64T) processor architecture are considered x64-based systems. 			
	BizTalk Server is not supported on Itanium-based systems.			
Memory	2GB or more			
Hard disk	10 GB of available hard disk space for a complete installation including the			
	operating system and all prerequisite software. The hard disk must be NTFS			
	formatted.			

Software Requirements

This table lists the software required for running BizTalk Server. You'll be guided through installation steps for all of these prerequisites in a later section.

Software Required	Description	Required for
Microsoft Windows	 Windows Server 2012 Windows Server 2008 R2 SP1 Windows 8 Windows 7 SP1 	
Internet Information Services (IIS)	IIS version 8.0 and 7.5 are supported.	Provides a scalable Web application infrastructure and is required for EDI, BAM, WSS Adapter, and UDDI.
Windows Identity Foundation	OPTIONAL When using the Windows SharePoint Services Client Side Object Model (CSOM), Windows Identity Foundation is needed.	SharePoint Services adapter or SharePoint Services Online when used with SharePoint Services Client Side Object Model (CSOM). It is not needed when using the SharePoint Services Web Service, which is deprecated. Or when you don't want to use this feature.
Microsoft SharePoint	OPTIONAL The BizTalk Server Windows SharePoint Services adapter supports several Windows SharePoint Services versions, depending on your BizTalk Server installation options.	If you plan to receive or send messages from SharePoint Services, then a SharePoint Services computer is required. It can be installed on the same computer as BizTalk Server, OR PREFERABLY ON A SEPARATE COMPUTER.



Microsoft Office	OPTIONAL Microsoft Office Excel 2010 or 2013. BIZTALK SERVER 2013 SUPPORTS ONLY 32-BIT VERSION OF MICROSOFT OFFICE.	Required by Business Activity Monitoring (BAM) to display a real-time view of business processes
Microsoft .NET Framework	.NET Framework 4.5	This is required for all BizTalk Server managed components
Microsoft Visual Studio	OPTIONAL Visual Studio 2012	Provides a development environment for building BizTalk Server applications. Ultimate Edition is recommended, but Premium and Professional are also supported. This is required for BizTalk Server Developer Tools and SDK component
Microsoft Visual C++ 2010 Redistributable Package	On an x86 computer, install only the x86 version of the package. On an x64 computer, install both x86 and x64 versions of the package. The installer is available as part of the BizTalk Server installation media under \Platform\SSO\Platform.	The Microsoft Visual C++ 2010 Redistributable Package installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2010 installed.
Microsoft SQL Server	 Microsoft SQL Server 2012 Microsoft SQL Server 2008 R2 SP1 For optimal performance, Microsoft recommends the Enterprise Edition of SQL Server. In order to fully use the BizTalk Server 2013 SDK, or deploy BizTalk Server applications from a Visual Studio development environment, you must also install the SQL Server Development Tools. Other considerations If you install SQL Server 2012, you must configure SQL Server Database Mail to use BAM Alerts. BAM real-time aggregation (RTA) is not supported in the Standard Edition of SQL Server. Using SQL Server Express Edition t is not recommended. The Express edition does not include certain features needed by BizTalk Server. 	This is required for BizTalk Server Runtime, EDI, and BAM
SQL Server 2005 Notification Services	OPTIONAL If you are configuring the BAM Alerts feature in BizTalk Server 2013 and you are using a SQL Server 2008 R2 SP1 database, you must install SQL Server 2005 Notification Services. Notification Services is not included with SQL Server 2008 R2 SP1 and must be downloaded and installed separately.	Enables the use of BAM Alerts
SQLXML 4.0 with Service Pack 1	SQLXML enables XML support for your SQL Server Database. It allows developers to bridge the gap between XML and relational data. You can create XML View	This is required for BizTalk Server Runtime, Administrative Tools, and BAM. RizTalk 26()

of your existing relational data and work with it as if it was an XML file.	
Note: You don't need to worry about installing this because REDISTRIBUTABLE CAB FILE will install this for you if necessary.	

Appendix B: Redistributable CAB Files

BizTalk Server relies on diverse products and technologies to provide essential services and features. If not already present, some software that is required by BizTalk Server is installed on your computer during the BizTalk installation process, such as:

- Microsoft SQL XML 4.0 with Service Pack 1
- Microsoft Office Web Components
- Microsoft ADO MD.Net 9.0
- Microsoft ADO MD.Net 10.0

Microsoft BizTalk Server 2013 Installation Wizard, in the "Redistributable Prerequisites" screen, gives you the option to:

MANUALLY INSTALL THE REDISTRIBUTABLE PREREQUISITES: By selecting this option you are choosing that you want to manually
install the redistributable files that are required for the installation process to continue. In this case the installation
process is canceled.

Microsoft BizTalk Server 2013 Installation Wizard				
No.	Installation canceled			
BizTalk Server 2013	Installation was canceled and the changes were reversed.			
Diz raik Sci ver 2015	A Logfile has been created in your temp directory.			
	You have selected to manually install Platform component updates. Please re-run setup when finished.			
Help	To close this wizard, click Finish. < Back Finish Cancel			

- AUTOMATICALLY INSTALL THE REDISTRIBUTABLE PREREQUISITES FROM THE WEB: By selecting this option the Wizard will
 download and install the necessary components automatically for you. The disadvantage is that this option requires
 an internet connection.
- **DOWNLOAD THE REDISTRIBUTABLE PREREQUISITES CAB FILE**: By selecting this option the Wizard will automatically download the correct version of the redistributable prerequisites CAB file which is compatible with the operating system that is



running the Installation Wizard, to your computer so that you can install later and will exit the installation process. Again this option requires an internet connection.

AUTOMATICALLY INSTALL THE REDISTRIBUTABLE PREREQUISITES FROM A CAB FILE: y selecting this option the Wizard will automatically install the redistributable prerequisites from a CAB file that you have previous downloaded. So the disadvantage is that you already must have downloaded the correct CAB file before running the setup but in return you don't need Internet connection.

×	Microsoft BizTalk Server 2013 Installation Wizard	×
Redistrib Revie	utable Prerequisites w redistributable components to be installed.	
CAB file: Server 2 BizTalk Redistrib Based o Manual Automa Downlo O Automa Pre-do	s intended for previous versions of this product are not compatible with Microsoft Biz Talk 013. If you want to download the latest CAB files manually before installing Microsoft Server 2013, you can find links to them in the installation guide for your operating system. utable Prerequisites Missing in the components you selected to install, you must first install the following prerequisites. Microsoft SQL XML 4.0 with Service Pack 1 with a correct of the redistributable prerequisites tically install the redistributable prerequisites from the web wad the redistributable prerequisites CAB file tically install the redistributable prerequisites from a CAB file winoaded CAB file: Browse	
Help	< Back Next > Cancel	

The CAB file containing all the prerequisites needed, however, if you are choosing the last option "Automatically install the redistributable prerequisites from a CAB file":

BizTalk36C

- Be sure you are using the correct CAB file according to your language and operating system.
- And you cannot use CAB files from previous versions of BizTalk Server to install BizTalk Server 2013.

List of Redistributable CAB Files for BizTalk Server 2013

CAB Files for 64-bit Editions (EN)

- Windows Server 2012: <u>http://go.microsoft.com/fwlink/?LinkId=269616</u>
- Windows Server 2008 R2: <u>http://go.microsoft.com/fwlink/?LinkId=269613</u>
- Windows 8: <u>http://go.microsoft.com/fwlink/?LinkId=269615</u>
- Windows 7: <u>http://go.microsoft.com/fwlink/?LinkId=269614</u>

CAB Files for 32-bit Editions (EN)

- Windows 8: <u>http://go.microsoft.com/fwlink/?LinkId=269612</u>
- Windows 7: <u>http://go.microsoft.com/fwlink/?LinkId=269611</u>

Other languages:

- DE (German)
 - CAB Files for 64-bit Editions

- Windows Server 2012: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-</u> BB96-82E812184EE3/BtsRedistW2K12DE64.cab
- Windows Server 2008 R2: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-BB96-82E812184EE3/BtsRedistW2K8R2DE64.cab</u>
- Windows 8: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-BB96-82E812184EE3/BtsRedistWin8DE64.cab</u>
- Windows 7: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-BB96-82E812184EE3/BtsRedistWin7DE64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-BB96-82E812184EE3/BtsRedistWin8DE32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/C/7/9/C791D903-A500-4FFF-BB96-82E812184EE3/BtsRedistWin7DE32.cab</u>

ES (Spanish)

- CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistW2K12ES64.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistW2K8R2ES64.cab</u>
 - Windows 8: <u>http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistWin8ES64.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistWin7ES64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistWin8ES32.cab
 - Windows 7: <u>http://download.microsoft.com/download/5/D/C/5DC17D5B-4D5D-4669-90F1-623B79909860/BtsRedistWin7ES32.cab</u>

FR (French)

- CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistW2K12FR64.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistW2K8R2FR64.cab</u>
 - Windows 8: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistWin8FR64.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistWin7FR64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistWin8FR32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/8/B/6/8B691DFD-E810-4696-9B04-BD32E18E952A/BtsRedistWin7FR32.cab</u>
- IT (Italian)
 - CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistW2K12IT64.cab</u>



- Windows Server 2008 R2: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistW2K8R2IT64.cab</u>
- Windows 8: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistWin8IT64.cab</u>
- Windows 7: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistWin7IT64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistWin8IT32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/0/B/C/0BC82018-CF05-4E78-A9A9-7AD31A2F147A/BtsRedistWin7IT32.cab</u>
- JA (Japanese)
 - CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistW2K12JA64.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistW2K8R2JA64.cab</u>
 - Windows 8: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistWin8JA64.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistWin7JA64.cab</u>
 - CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistWin8JA32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/F/B/F/FBF8AF4A-FA1E-4F26-AF27-6F19942CB24B/BtsRedistWin7JA32.cab</u>
- KO (Korean)
 - CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-B9E1063B9F84/BtsRedistW2K12K064.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-B9E1063B9F84/BtsRedistW2K8R2KO64.cab</u>
 - Windows 8: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-</u> B9E1063B9F84/BtsRedistWin8KO64.cab
 - Windows 7: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-B9E1063B9F84/BtsRedistWin7KO64.cab</u>
 - CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-B9E1063B9F84/BtsRedistWin8KO32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/4/6/F/46FE0D2A-850A-4AE1-BD91-B9E1063B9F84/BtsRedistWin7KO32.cab</u>
- CN (Chinese)
 - CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-</u> <u>B8D4-4213C4ADD3FA/BtsRedistW2K12CN64.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-B8D4-4213C4ADD3FA/BtsRedistW2K8R2CN64.cab</u>

- Windows 8: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-B8D4-4213C4ADD3FA/BtsRedistWin8CN64.cab</u>
- Windows 7: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-B8D4-4213C4ADD3FA/BtsRedistWin7CN64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-B8D4-4213C4ADD3FA/BtsRedistWin8CN32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/F/3/8/F3864688-5B3F-4AF4-B8D4-4213C4ADD3FA/BtsRedistWin7CN32.cab</u>

• TW (Taiwan)

- CAB Files for 64-bit Editions
 - Windows Server 2012: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistW2K12TW64.cab</u>
 - Windows Server 2008 R2: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistW2K8R2TW64.cab</u>
 - Windows 8: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistWin8TW64.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistWin7TW64.cab</u>
- CAB Files for 32-bit Editions
 - Windows 8: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistWin8TW32.cab</u>
 - Windows 7: <u>http://download.microsoft.com/download/2/A/B/2ABDDD44-C727-422D-8C39-A5A3CBE0611A/BtsRedistWin7TW32.cab</u>

Appendix C: Basic Configuration vs. Custom Configuration

BizTalk Server can be configured using Basic Configuration or Custom Configuration.

For helping you decide what kind of configuration you should use consider the following table:

	Basic Configuration	Custom Configuration
BizTalk Groups	Automatically creates local groups. No	You enter the domain groups.
	option to use domain groups.	
SQL Server	Use this option when SQL Server is	Use this option when SQL Server is
	installed on the BizTalk Server virtual	installed on a separate computer
	machine.	(virtual machine).
Database Names	Generated automatically.	You can modify the default values.
Service Account	Microsoft SQL Server 2003 or higher	You can enter different accounts for
	(including Express Edition is supported)	different services.

Reviews



Nino Crudele [Microsoft Integration MVP]

Nino Crudele lives in Italy and he currently works as a BizTalk consultant at Microsys (<u>www.msys.it</u>).He has been a BizTalk MVP for 6 years. Besides that he is also a Virtual Technology Specialist for BizTalk Server, a role in which he works closely with Microsoft Italy. He enjoys this role as it enables him to work with many different clients seeing BizTalk in different scenarios from a technical point of view, size, and criticality.

Nino has worked with most of the BizTalk accelerators, Rosettanet, HL7, SWIFT and has done some big projects on EDI and RFID. In the past he also had the opportunity to be part of a big integration project with a major Italian enterprise organization that integrates many technologies like SAP, AS400, TIBCO and others using BizTalk.



Steef-Jan Wiggers [Microsoft Integration MVP]

Steef-Jan Wiggers is a principal consultant for a consultancy firm in the Netherlands. He has almost 15 years' experience as a technical lead developer, application architect and consultant, specializing in custom applications, enterprise application integration (BizTalk), Web services and Windows Azure. Steef-Jan is very active in the BizTalk community as a blogger, Wiki author/editor, forums, writer and public speaker in the Netherlands and Europe. For these efforts, Microsoft has recognized him a Microsoft MVP for the past 3 years. For more information about Steef-Jan and

his BizTalk experiences please visit <u>http://soa-thoughts.blogspot.com/.</u>



Tord Glad Nordahl [Microsoft Integration MVP]

Tord Glad Nordahl is a BizTalk Administrator Expert for Bouvet ASA in Norway and was the first BizTalk Administrator to be awarded as a Microsoft Integration MVP in 2013. Tord is originally a developer but now only focuses on BizTalk Administration and has done this for the past 5 years. Tord has been running the <u>www.biztalkadmin.com</u> blog and is actively contributing to the community through his blog, TechNet Wiki, MSDN Forums and presenting at different stages all over Europe.



Ricardo Torre [Product Strategist – BizTalk360]

Ricardo has recently joined BizTalk360 as the Head of Technical Pre-Sales & Product Strategist after over 6 years working for Microsoft as a deep technical field specialist. He had extensive hands-on experience with the world's top tier BizTalk customers, enabling them through training, troubleshooting, mentoring, application design principles and architecture recommendations. As a serious BizTalker he is passionate by the integration world and cloud computing.