

Preparing Windows Server 2012 for ChilliDB

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1. Introduction

IIS 8.0 is the Web server role in Windows Server 2012 and IIS 8.5 is the Web server role in Windows Server 2012 R2. While there may be some small differences between the versions and their management utilities, the work to be performed is essentially the same so you should be able to overcome any obstacles. We will refer to IIS 8.0/8.5 collectively as just IIS in this guide.

Windows Server 2012 R2 and Windows Server 2012 operating systems have all the IIS features needed to support the hosting of web applications such as ChilliDB. We will refer to Windows Server 2012 and Windows Server 2012 R2 collectively as just Windows Server 2012.

This guide will lead you through the necessary steps to ensure that you enable the Application Roles and Features necessary for supporting web applications.

2. Skills and Security Permissions Required

This guide assumes that are familiar with installing and configuring Windows Servers and IIS.

Ensure that you have administrative user rights on the server on which you plan to install IIS. Note that by default, you do not have administrative user rights if you are logged on as a user other than as the built-in administrator, even if you were added to the local Administrators group on the computer. We recommend that you log on using the built-in administrator account to perform this work.



3. Installing Roles and Role Services

IIS is one of the Windows Server server roles. IIS can be installed through the graphical user interface (GUI) by using the new Server Manager interface after the Windows Server operating system is installed. Server Manager provides a single dashboard to install or uninstall server roles and features. Server Manager also gives an overview of all currently installed roles and features. When IIS is chosen from the Server Manager, the basic components and services needed for IIS are automatically selected.

Notes:

- Depending on what you have installed on your server already, you may have these some or all of these roles and services installed already. You should verifying the Roles and Role Services we detail are installed and install them if they are not present on your server.
- The SAP Crystal Report Viewer extensions which we use for report viewing in ChilliDB is running an older .Net Framework than ChilliDB. This requires that you install support for ASP.NET 2, which is provided through the .NET 3.5 role. We will include this in the following instructions.

Steps:

1. On the **Start** page, click the **Server Manager** tile, and then click **OK**.

Start	
.	2
Server Manager	PowerShell
Computer	Task Manager
	e
Control Panel	Internet Explorer
Desktop	
Administrative Tools	

2. In Server Manager, select Dashboard, and click Add roles and features.

fail				Ser	ver Manager	
Server Ma	anager • Dashbo					
Decloard Decloard	Anager * Dashboo	Ard MANAGER Configu Add rc Ad	re this local serve les and features ther servers to manage a server group Local Server O Manageability Events Servers		All Servers All Servers Managability Events Servers	1
	BPA results		Performance BPA results		Performance BPA results	



3. In the Add Roles and Features Wizard, on the Before you begin page, click Next.



4. On the **Select installation type** page, select **Role-based or feature-based installation**, and click **Next**.

ħ	Add Roles and Features Wizard
Select installation	оп type
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD). © Role based of exture based clisicallation Configure a single server by adding roles, role services, and features. © Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
	< <u>Previous</u> [Next >] [stall] Cancel

5. On the **Select destination server** page, select **Select a server from the server pool**, select your server, and click **Next**.

ħ	Add R	oles and Features W	lizard	_ D X
Select destination	on server			DESTINATION SERVER iServer2012Std
Before You Begin Installation Type	Before You Begin Select a server or a virtual hard disk on which to install roles and features. Installation Type @(Select a server from the server pool			
Server Selection Server Roles Features	Server Selection U Select a virtual hard disk Server Roles Server Pool Features Filter			
	Name iServer2012Std	IP Address 172.31.101.126	Operating System Microsoft Windows Server 201	2 Standard
	1 Computer(s) found This page shows serve Add Servers comman collection is still incon	ers that are running Winc d in Server Manager. Offi nplete are not shown.	lows Server 2012, and that have ine servers and newly-added serv	been added by using the eers from which data
		< <u>P</u> rev	ious <u>N</u> ext >	nstall Cancel

6. On the **Select server roles** page,



- Select Application Server
- Select Web Server (IIS)
 - i. At this point and depending on your server configuration, selecting **Web Server (IIS)** will usually then popup a dialog requesting that you add any additional features not already present on your server which are required for **Web Server (IIS)**. Click **Add Features** to continue.



• Click **Next** to continue the wizard.





7. On the Add Roles and Features Wizard, ensure that the following items are selected:

Note: When you select some of these Features, Windows Server will prompt you to add any additional Features which they may need. This is fine, accept any of the prompts that it presents.



- .NET Framework 3.5 Features
 - .Net Framework 3.5 (includes .NET 2.0 and 3.0)
 - HTTP Activation
- .NET Framework 4.5 Features
 - .Net Framework 4.5
 - ASP.NET 4.5
 - WCF Services
 - HTTP Activation
 - TCP Port Sharing
- Windows Process Activation Service
 - Process Model
 - .NET Environment
 - Configuration APIs

b	Add Roles and Features Wizard	_ D X
Select features		DESTINATION SERVER (Server2012Std
Before You Begin Installation Type	Select one or more features to install on the selected server. Features	Description
Server Roles Features	Windows Internal Database Windows PowerShell (Installed)	.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer
Web Server Role (IIS) Role Services	Process Model NET Environment 3.5	appealing user interfaces, protect your customers' personal identity information, enable seamless and
Application Server Role Services Confirmation	Configuration APIs Windows Search Service Windows Server Backup	secure communication, and provide the ability to model a range of business processes.
Results	Windows Server Migration Tools Windows Standards-Based Storage Management Windows System Resource Manager [Deprecated]	
	Windows TIFF IFilter WinRM IIS Extension	
	< Previous Next	> Install Cancel

Click **Next** to continue.



When the introduction to the Web Server Role (IIS) appears, click **Next** to continue

a	Add Roles and Features Wizard
Web Server Role	(IIS) DESTINATION SERVER ISERVE2012518
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIIS) Role Services Application Server Role Services Confirmation Results	Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.0 with enhanced security, diagnostic and administration, unified Web platform that integrates IIS 8.0, ASP.NET, and Windows Communication Foundation. Things to note: • Using Windows System Resource Manager (WSBM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer. • The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
	More information about Web Server IIS
	< Previous Next > Install Cancel

8. On the **Select role services** for **Web Server (IIS)** page, ensure the following **Role services** are selected:

Select role services Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Application Server Role Services Confirmation Results	Description Windows authentication is a low cost authentication is a low cost authentication solution for internal Web sites. This authentication scheme allows administrators in a Windows domain to take advantage of the domain infrastructure for suthenticating users. Do not use Windows authenticated in users who must be authenticated in users who must be authenticated in fuers who must be authenticated in free while and proxy servers.
< Previous Next >	Install

- Web Server
 - Common HTTP Features
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - Static Content
 - HTTP Redirection
 - Health and Diagnostics
 - HTTP Logging



2	Add Roles and Features Wizard	_ D X			
E Select role service Before You Begin Installation Type Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard S Select the role services to install for Web Server (IIS) Role services Tracing Tracing Subscription Sub	DESTINATION SERVER Server201258 DESTINATION SERVER Server201258 DESTINATION SERVER ADD SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SE			
	< III >				
	< Previous Next > Install Cancel				

- Performance
 - Static Content Compression
- Security
 - Request Filtering
 - Basic Authentication
 - Windows Authentication

B	Add Roles and Features Wizard	_ _ ×
Select role services	5	DESTINATION SERVER IServer2012Std
Before You Begin	Select the role services to install for Web Server (IIS)	
Installation Type	Role services	Description
Server Selection	<u></u>	.NET extensibility allows managed
Server Roles	▲ ✔ Application Development	code developers to change, add and
Features	✓ .NET Extensibility 3.5	the entire request pipeline, the
Web Server Role (IIS)	INET Extensibility 4.5	configuration, and the UI.
Role Services		ASP.NET extensibility model and
Application Server	ASP.NET 3.5	rich .NET APIs to build Web server
Role Services	ASP.NET 4.5	those written using the native C++
Confirmation	🗆 CGI	APIs.
Results	✓ ISAPI Extensions	
	ISAPI Filters	
	Server Side Includes	
	WebSocket Protocol	
	IIS Hostable Web Core	
	< Previous Next >	Install

- Application Development
 - .Net Extensibility 3.5
 - .Net Extensibility 4.5
 - ASP.NET 3.5
 - ASP.NET 4.5
 - ISAPI Extensions
 - ISAPI Filters



Select role service	S	DESTINATION SERVER IServer2012Std
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Select the role services to install for Web Server (IIS) Role services Services Services Services Server Side Includes Server Side Includes Server Side Includes Services Serv	Description .NET extensibility allows managed code developers to change, add and extend web server functionality in the entire request pipeline, the configuration, and the UI. Developers can use the familiar ASP.NET extensibility model and rich.NET APIs to build Web server features that are just as powerful as those written using the native C++ APIs.

- Management Tools
 - IIS Management Console
 - IIS 6 Metabase Compatibility
 - IIS 6 Scripting Tools
 - IIS 6 WMI Compatibility

Client **Next** to continue.

9. When the introduction to the Application Server appears, click **Next** to continue

ħ	Add Roles and Features Wizard
Application Serve	DESTINATION SERVER ISonne20125d
Before You Begin Installation Type Server Selection Server Roles	Application Server hosts and centrally manages applications that interoperate with systems on the network such as heterogeneous databases, identity management services, security systems, and Web applications and services. Applications Genera data Support developing custom business applications through integrated services such as the .NET Framework 4.5, COM+, Web Server (IIS) Support, and Message Queuing.
Features	Things to note:
Web Server Role (IIS)	We recommend that you install Web Server (IIS) Support if you plan to host distributed applications
Role Services	built using ASP.NET or Windows Communication Foundation (WCF).
Application Server	
Role Services	
Confirmation	
Results	
	More information about Application Server
	< Previous Next > Install Cancel



10. On the **Select role services** for **Application Server** appears, ensure the following **Role services** are selected:

- .Net Framework 4.5
- Web Service (IIS) Support. When you select this item, Windows may popup a dialog requesting that you add any additional features not already present on your server which are required for **Web Server (IIS) Support**. Click **Add Features** to continue.

B	Add Roles and Features Wizard	_ 🗆 X
Before You Begin Installation Type Server Roles Features Web Server Role (IIS) Role Services Application Server Role Services Confirmation Results	Add Koles and Pedidles Wizard Select the role services to install for Application Server Role services Network Access Otigoing Network Transactions Distributed Transactions Wis-Atomic Transactions Otigoing Network Transactions Vis-Atomic Transactions Vis-Atomic Transactions Vis-Atomic Transactions Vis-Atomic Transactions TCP Per Atshaing Vis-Atomic Transactions TCP Petro Shaing Vis-Atomic Transaction TCP Clusters Context Shaing Vis-Atomic Transaction TCP Activation TCP Activation	Destribution Beneration Description Web Server (IIS) Support enables Application Server to host internal or external Web sites and Web services that communicate over HTP. It includes support for ASP.NET applications that can be accessed via a Web browser such as Internet Explorer, and Web services built using Windows Communication Foundation (WCF).
	< Previous Nex	t > Install Cancel

Click **Next** to continue.

11. On the **Confirm installation selections** page, confirm your selections, and then click **Install**.

🚡 Add Roles and Features Wizard 🗕 🗖 🗴					
Confirm installati	ON Selections DESTINATION SERVER IS environment of the services or features on selected server click Install.				
Berore You Begin Installation Type Server Selection Server Roles	Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.				
Features Web Servier Role (IIS) Role Services Application Server Role Services Confirmation Results	.NET Framework 3.5 (includes .NET 2.0 and 3.0) HTTP Activation .NET Framework 4.5 Features ASP.NET 4.5 WCF Services HTTP Activation Application Server .NET Framework 4.5 Export configuration settings Specify an alternate source path				
	< Previous Next > Install Cancel				



12. When the installation process completes, confirm that there were no issues encountered and then click **Close**.

Ē.	Add Roles and Features Wizard	_		x
Installation prog	ress	TINATIO iServe	v SERV r20129	ER itd
Before You Begin	View installation progress			
Installation Type	Feature installation			
Server Selection				
Server Roles	Installation succeeded on iServer2012Std.			
Features	.NET Framework 3.5 Features			~
Web Server Role (IIS)	.NET Framework 3.5 (includes .NET 2.0 and 3.0)			=
Role Services	HTTP Activation			
Application Server	.NET Framework 4.5 Features			
Role Services	ASKNET 4.5 WCE Services			
Confirmation	HTTP Activation			
Results	Application Server .NET Framework 4.5 Web Server (IIS) Support			
	You can close this wizard without interrupting running tasks. View task progress page again by clicking Notifications in the command bar, and then Task Details. Export configuration settings	or ope	n this Cance	

13. To verify that IIS installed successfully, open Internet Explorer and browse to the following location **http://localhost**. If everything is working correctly, the default IIS welcome page will appear.

	- □ × ☆ ☆ ©
IIS	
Kindows Server Internet Information Services 8.0	microsoft.com/web

14. Your server is now capable of hosting web applications.

4. Windows Update

Ensure that you now visit Windows Update and install all available service packs and patches – with the newly added services above, there are likely to be additional updates required.



5. Troubleshooting

There are no known issues at present with running ChilliDB on the Windows 2012 platform.