

RBH Technical Bulletin

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Integra 32™

Number: 60

Integra 32[™] Web Client

Integra32[™] Web Client web application

Integra32[™] Web Client is a web application developed on Visual Studio 2008 that will run on Microsoft IIS web server built in to Windows OS

Pre-requisites and considerations

Supported Operating Systems

Windows 7 Professional or Ultimate¹ (IIS 7.5) Windows 8/8.1 Windows Server 2008 (IIS 7) Windows Server 2012

- Integra32[™] must be updated to at least Service Pack 4C (Version 3.7.23+) for the Web Client to work properly.
- Integra32[™] must be registered with an appropriate license file to enable Web services:

¹ Home Editions are not supported

Ab	out Integra32 - AxiomLite Security System	×
	Integra32 - AxiomLite Security System Version 4.1.3 R 4.3 Copyright © 1995 - 2014 RBH Access Technologies Inc. (Canada) Company RBH Access Technologies Inc. email: info@rbh-access.com www.rbh-access.com This Product is licensed to	
RBH	Card import Finger Print Enrollment DVR <u>Visitor Manag</u> ement Web Client Global APB by Grouping Cards	^ ~
Dealer Information		_
		Ŷ

• Share the Integra32 folder:

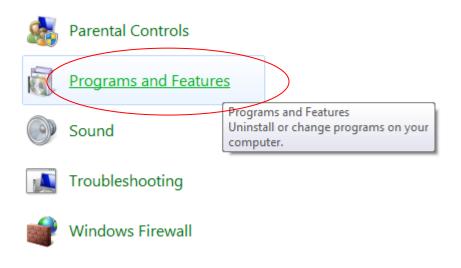
🝶 Integra32 Prop	perties		x
General Sharing	Security Previo	ous Versions Cu	Istomize
Object name: (C:\Program Files\rt	oh∖Integra32	
Group or user nar	nes:		
SYSTEM			
& Administrato	ns		
& Users			
🥵 TrustedInsta	ller		
•			
To change permis	ssions, click Edit.		<u>E</u> dit
Permissions for U	sers	Allow	Deny
Full control		~	<u> </u>
Modify		~	
Read & execut	e	~	
List folder cont	ents	~	
Read		~	
Write		1	_
For special permis click Advanced.	ssions or advanced	d settings,	Ad <u>v</u> anced
Leam about acce	ess control and per	missions	
	Close	Cancel	Apply

- NET Framework 3.5 is required. If it is not detected by the Web Client setup it will be installed automatically.
- Internet Information Services (IIS) is also required. If it is not detected the user will be notified.

Enable/Install IIS

Windows 7

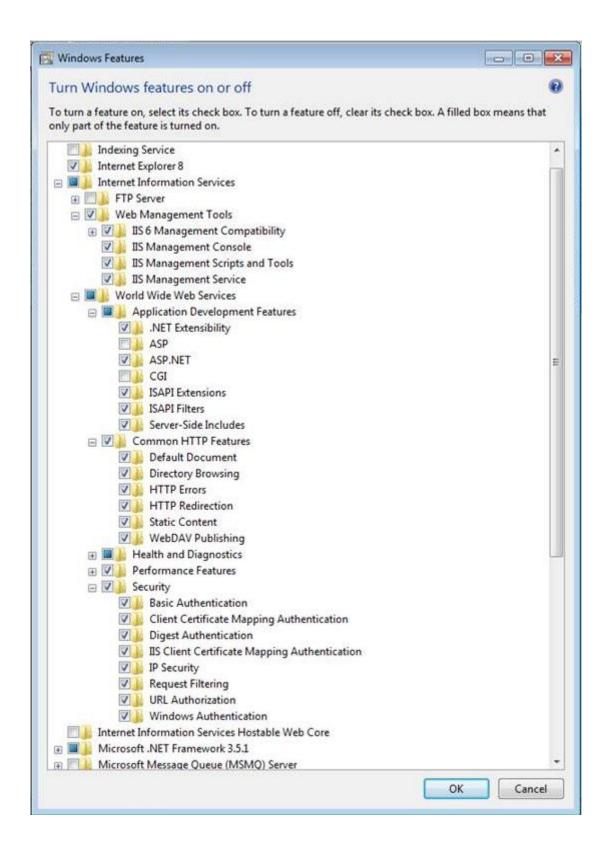
Go to Control Panel and Launch Programs and Features.



Select 'Turn Windows features on or off'.

😋 🕞 マ 💽 ► Control Panel ►	All Control Panel Items Programs and Features
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and
off	Organize 🔻
	 7-Zip 4.65 (x64 edition) Access Help Acronis True Image Home

Then make the selection under *IIS (Internet Information Services)* as shown in the screen below:

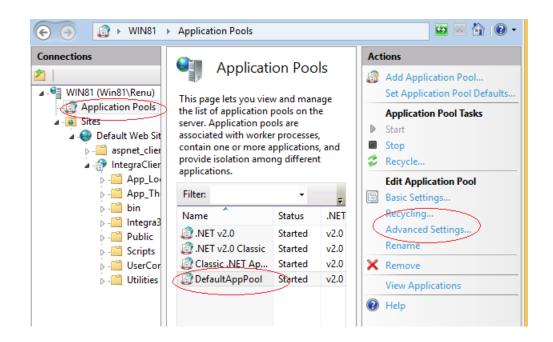


Windows 8/8.1

IIS setup in Windows 8/8.1 is similar to the IIS setup in Windows 7 - Through Programs and Features in Windows Control Panel.

	Windows Features			×
Turn Windows f	eatures on or off			0
To turn a feature on	select its checkbox. To turn a feature off, clear	rits checkbox	A filled k	ov
	of the feature is turned on.	nis checkbox.	- Theo b	.0x
😑 🔳 🔒 Internet Inf	formation Services			^
🕀 🔲 😥 FTP Ser	ver			
	anagement Tools			
	Management Compatibility			
	IIS 6 Management Console			
	IIS 6 Scripting Tools			
	IIS 6 WMI Compatibility			
	IIS Metabase and IIS 6 configuration compatib	bility		
	Management Console			
	Management Scripts and Tools			
	Management Service Wide Web Services			
	blication Development Features			
	.NET Extensibility 3.5			
	.NET Extensibility 4.5			
	Application Initialization			
	ASP.NET 3.5			
	ASP.NET 4.5			
v 1	ISAPI Extensions			
✓1	ISAPI Filters			
V	Server-Side Includes			
	WebSocket Protocol			
🖃 🔳 Cor	nmon HTTP Features			
✓].	Default Document			
 ✓ 	Directory Browsing			
	HTTP Errors			
	HTTP Redirection			
	Static Content			
	WebDAV Publishing			
	alth and Diagnostics			
	Custom Logging			
	HTTP Logging			
	Logging Tools ODBC Logging			
	Request Monitor			
	Tracing			
	formance Features			
	Dynamic Content Compression			
	Static Content Compression			
🗉 🔳 Sec				
	Basic Authentication			
	Centralized SSL Certificate Support			
	Client Certificate Mapping Authentication			
	Digest Authentication			
	IIS Client Certificate Mapping Authentication			
	IP Security			
	Request Filtering			~
	LIDI Australiana			
		OK	Can	cel

Integra 32TM R4.3 is based on .NET Framework 4.5, and therefore, the DefaultAppPool would be .NET 4.0 for IIS where Integra 4.3 is installed. Since Integra Web Client is based on .NET Framework 3.5, after the installation of the Integra Web client application, the DefaultAppPool settings need to be changed.



Click on Advanced Settings...for Default AppPool

⊿	(General)	^
	.NET CLR Version	v4.0
	Enable 32-Bit Applications	False
	Managed Pipeline Mode	Integrated
	Name	DefaultAppPool
	Queue Length	1000
	Start Mode	OnDemand
۵	CPU	
	Limit (percent)	0
	Limit Action	NoAction
	Limit Interval (minutes)	5
	Processor Affinity Enabled	False
	Processor Affinity Mask	4294967295
	Processor Affinity Mask (64	4294967295
۵	Process Model	
\triangleright	Generate Process Model Ev	
	Identity	ApplicationPoolIdentity
	Idle Time-out (minutes)	20
	Idle Time-out Action	Terminate
	Load User Profile	True
N	ET CLR Version	
		onfigures the application pool to n. The CLR version chosen sho

From the drop down menu, select V2.0 for .Net CLR version

۵	(General)	
	.NET CLR Version	v2.0
	Enable 32-Bit Applications	False
	Managed Pipeline Mode	Integrated
	Name	DefaultAppPool
	Queue Length	1000
	Start Mode	OnDemand
4	CPU	
	Limit (percent)	0
	Limit Action	NoAction
	Limit Interval (minutes)	5
	Processor Affinity Enabled	False
	Processor Affinity Mask	4294967295
	Processor Affinity Mask (64-	4294967295
4	Process Model	
Þ	Generate Process Model Eve	1
	Identity	ApplicationPoolIdentity
	Idle Time-out (minutes)	20
[m a s	pecific .NET CLR version. The	figures the application pool to load e CLR version chosen should ersion of the .NET Framework bein
co	rrespond to the appropriate v	ersion of the .NET Framework bein

Restart the DefaultAppPool and browse to the Integra Web Client. You may see a Log in screen without any site name (especially if using a 64 bit OS)

	- 🗆 🗙
() () () () () () () () () ()	× ि ☆ 🌣
	English 🗸
Into ano 20"	
Integra 32"	
User Name:	
Password:	
Sites:	
Login	
	~

If your login screen does not show anything in the "Sites" field, you will need to change the setting for 32 bit application to "True" on the DefaultAppPool

⊿	(General)		^
	.NET CLR Version	v2.0	
\leq	Enable 32-Bit Applications	True	
	Managed Pipeline Mode	Integrated	
	Name	DefaultAppPool	
	Queue Length	1000	
	Start Mode	OnDemand	
4	CPU		1
	Limit (percent)	0	
	Limit Action	NoAction	
	Limit Interval (minutes)	5	
	Processor Affinity Enabled	False	
	Processor Affinity Mask	4294967295	
	Processor Affinity Mask (64-	4294967295	
⊿	Process Model		
Þ	Generate Process Model Eve	1	
	Identity	ApplicationPoolIdentity	
	Idle Time-out (minutes)	20	
-		₹ • •	-
[er 64	bit operating system, the wo	to true for an application pool on rker process(es) serving the /64 (Windows on Windows64) mo	

Browse to the Integra Client 1.0 application again after restarting the DefaultAppPool

	-		×
(←) → @ http://localhost/Integ: ♀ < ♥ @ Integra Web Client	×	ŵ	* 🕸
	English	I	✓
Integra 32"			
User Name: rbh			
Password:			
Sites: Default V			
Login			
			Ť

Log in to the Integra Web application



Windows Server 2008/ Windows Server 2008 R2

Before You Begin

Ensure that you have administrative user rights on the computer on which you plan to install IIS7.

Note that by default, you do not have administrative user rights if you are logged on as a user other than the built-in administrator, even if you were added to the local Administrators group on the computer (this is a new security feature in Windows Server 2008 called *Local User Administrator*).

Log on either to the built-in administrator account, or explicitly invoke applications as the built-in administrator by using the 'run as' on the right click menu for the application.

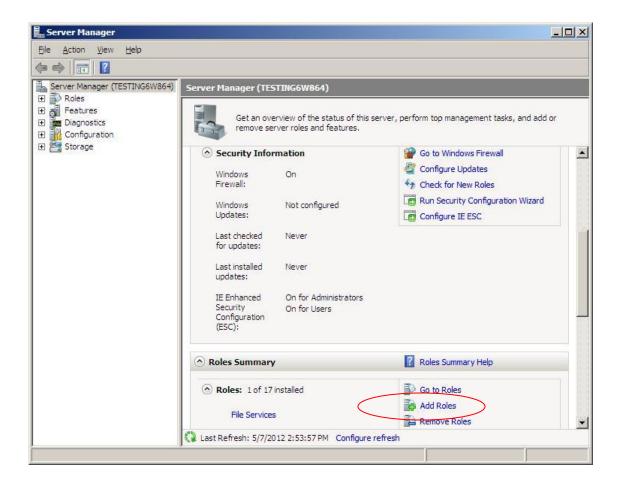
If you are logged on to an account other than the built-in local administrator account, you may see the following security alert dialog box.



IIS is one of the Windows Server's server roles. IIS 7 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 7 is chosen from the Server Manager, the basic components and services needed for IIS are automatically selected.

Click Start -> All Programs -> Administrative Tools -> Server Manager



In the Server Manager window, scroll down to Roles Summary, and then click Add Roles.

The *Add Roles Wizard* will start with a *Before You Begin* page. The wizard asks for verification of the following:

- The administrator account has a strong password.
- The network settings, such as IP addresses, are configured.
- The latest security updates from Windows Update are installed.

Select Web Server (IIS) on the Select Server Roles page.

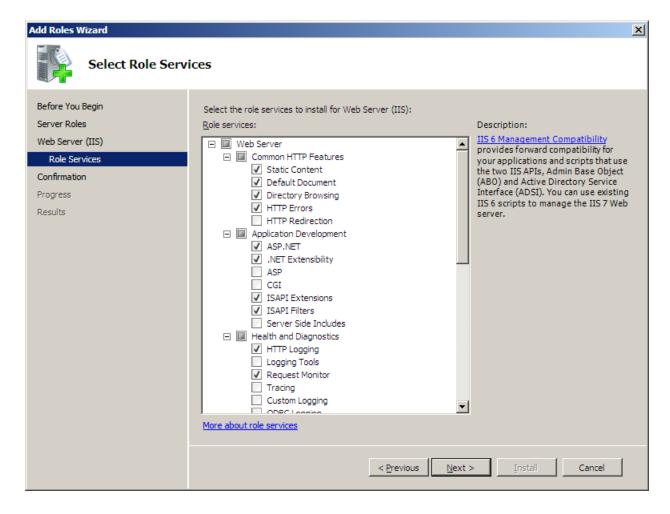
An introductory page will open with links for further information.



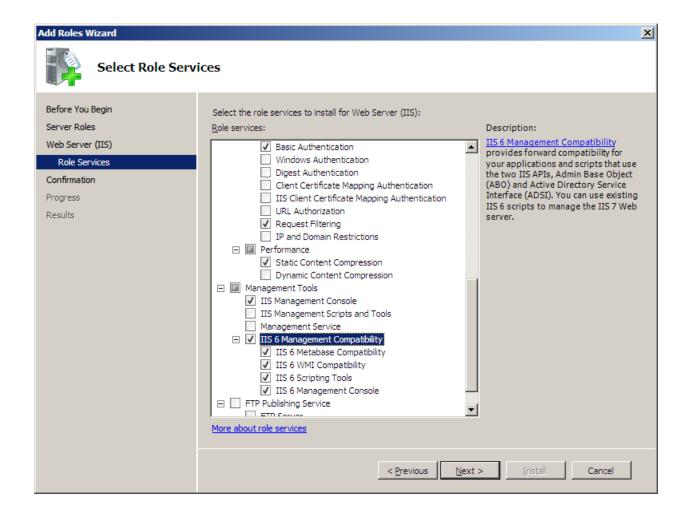
When you use the Add Roles Wizard to install IIS, you get the default installation, which has a minimum set of role services. If you need additional IIS role services, such as Application Development or Health and Diagnostics, make sure to select the check boxes associated with those features in the Select Role Services page of the wizard.

Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles Web Server (IIS) Role Services Confirmation Progress Results	Select one or more roles to install on this server. Roles: Active Directory Certificate Services Active Directory Domain Services Active Directory Federation Services Active Directory Rights Management Services Active Directory Rights Management Services Application Server DHCP Server DNS Server Fax Server File Services Detropy and Access Services Print Services UDDI Services Web Server (IIS) Windows Deployment Services More about server roles	Description: Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure. application infrastructure.

Select the IIS services to be installed on the Select *Role Services* page. Add only the modules necessary. In this case, ASP.NET is selected, and a description of ASP.NET appears in the right pane. Once desired modules are added (as shown in the screen below), click *Next*.



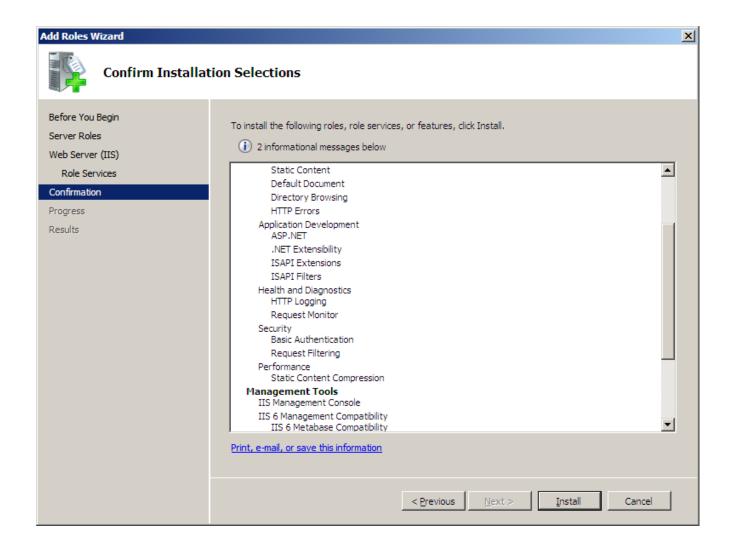
And



Add any required role services.

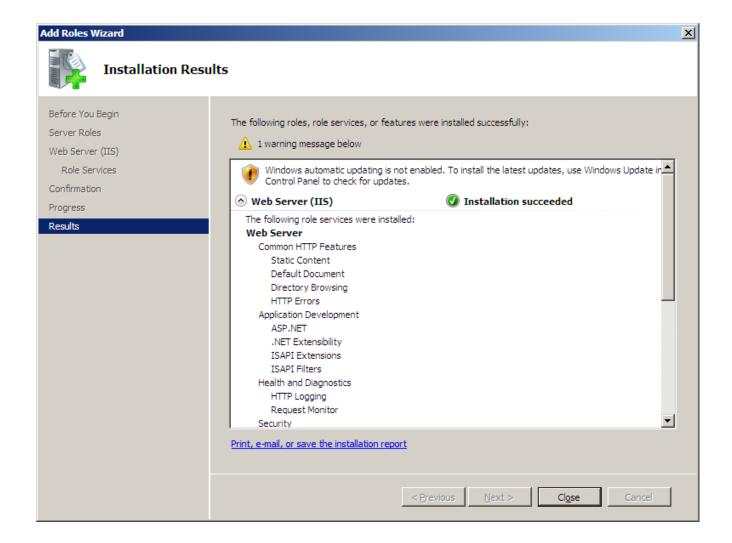
Add Roles	Wizard Add role services required for ASP? You cannot install ASP unless the required role services		×
	Role Services: Web Server (IIS) Web Server Poplication Development ISAPI Extensions	Description: <u>Web Server (IIS)</u> provides a reliable, manageable, and scalable Web application infrastructure.	
(i) Why	are these role services required?	Add Required Role Services Cancel	

Click Install to install the Role selected



Add Roles Wizard				
Installation Progr	ess			
Before You Begin Server Roles Web Server (IIS) Role Services Confirmation Progress Results	Web Server (IIS) Windows Process Activation Service			
	< Previous Next > Install Cancel			

IIS is now installing with a default configuration for hosting ASP.NET on Windows Server. Once finished, click Close to complete the process.



Confirm that the Web Server works by using http://localhost.

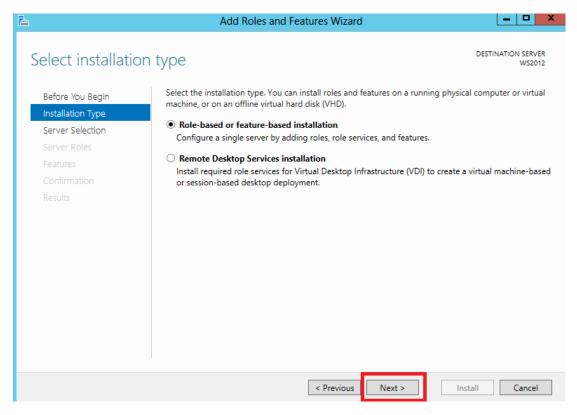
・ ・ thtp://ocalhost/ ・ ・ ・
Welcome Bienvenido Willkommen Bem-vindo Vítejte Bienvenue Tervetuloa 歓迎 Velkommen VELKOMEN
ようこそ Bienvenido Willkommen Bem-vindo Bienvenue Vítejte 敬迎 LECT 655 Velkommen VELKOMEN
Benvenuto Welkom Välkommen Hoş Geldiniz Üdvözöljük Добро пожаловать

Windows Server 2012

IIS setup for Windows Server 2012 is very similar to the IIS setup for Windows Server 2008. Following screenshots for Windows Server 2012 are self explanatory.

B	S	erver Manager 📃 🗖 🗙	
🔵 🗧 👊 Dashb	oard	🕶 🥑 🚩 Manage Tools View Help	
Dashboard	WELCOME TO S	SERVER MANAGER	^
 Local Server All Servers File and Storage Services ▷ 		1 Configure this local server	=
⊗ Remote Desktop Services ▷	QUICK START	2 Add roles and features	
	WHAT'S NEW	3 Add other servers to manage	
		4 Create a server group	
	LEARN MORE	Hide	
			~

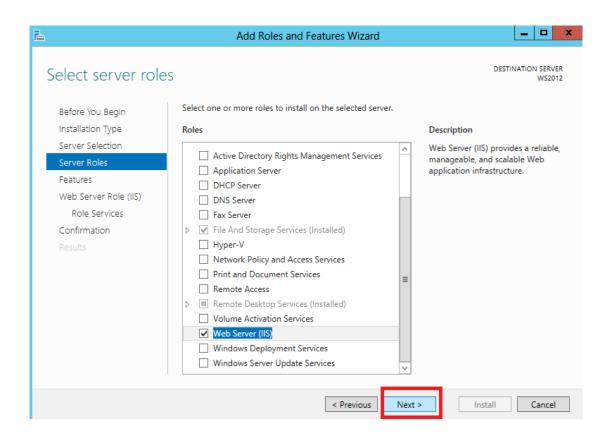
b	Add Roles and Features Wizard				
Before you begin	DESTINATION SERVER WS2012				
Before You Begin Installation Type	This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.				
Server Selection Server Roles	To remove roles, role services, or features: Start the Remove Roles and Features Wizard				
Features	Before you continue, verify that the following tasks have been completed:				
Results	 The Administrator account has a strong password Network settings, such as static IP addresses, are configured The most current security updates from Windows Update are installed 				
	If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.				
	To continue, click Next.				
	Skip this page by default				
	< Previous Next > Install Cancel				



3 October, 2014

Â	Add Roles and Features Wizard	_ _ ×
Select destinatio	n server	DESTINATION SERVER WS2012
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select a server or a virtual hard disk on which to install roles and featur Select a server from the server pool Select a virtual hard disk Server Pool Filter: Name IP Address Operating System WS2012 125.100.75.206 Microsoft Windows Set 1 Computer(s) found This page shows servers that are running Windows Server 2012, and the	erver 2012 Standard
à	collection is still incomplete are not shown. Previous Next > Add Roles and Features Wizard	Install Cancel
Select server ro	les	DESTINATION SERVER WS2012
Before You Begin	Select one or more roles to install on the selected server.	
Installation Type Server Selection Server Roles Features Confirmation Results	Active Directory Rights Management Services Application Server DHCP Server DHCP Server	escription tive Directory Certificate Services D CS) is used to create rtification authorities and related e services that allow you to issue d manage certificates used in a riety of applications.
	< Previous Next >	Install Cancel

h		Add Roles and Features Wizard	x		
,	Ad	Id features that are required for Web Server (IIS)?			
	The following tools are required to manage this feature, but do not have to be installed on the same server.				
Γ	⊿	Web Server (IIS)			
		▲ Management Tools			
	[Tools] IIS Management Console				
Ŀ	✓ Include management tools (if applicable)				
		Add Features Cancel			



3	Add Roles and Features Wizard			
Select features		DESTINATION SERVER WS2012		
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Select one or more features to install on the selected server. Features	Description .NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.		
< Previous Next > Install Cancel				
2	Add Roles and Features Wizard			
Web Server Role	(IIS)	DESTINATION SERVER WS2012		
Before You Begin Installation Type Server Selection Server Roles Features	Web servers are computers that let you share information over extranets. The Web Server role includes Internet Information Se diagnostic and administration, a unified Web platform that inte Communication Foundation. Things to note:	rvices (IIS) 8.0 with enhanced security, grates IIS 8.0, ASP.NET, and Windows		
Web Server Role (IIS) Role Services Confirmation	 Using Windows System Resource Manager (WSRM) can help server traffic, especially when there are multiple roles on this The default installation for the Web Server (IIS) role includes enable you to serve static content, make minor customization errors), monitor and log server activity, and configure static content 	computer. the installation of role services that ns (such as default documents and HTTF		

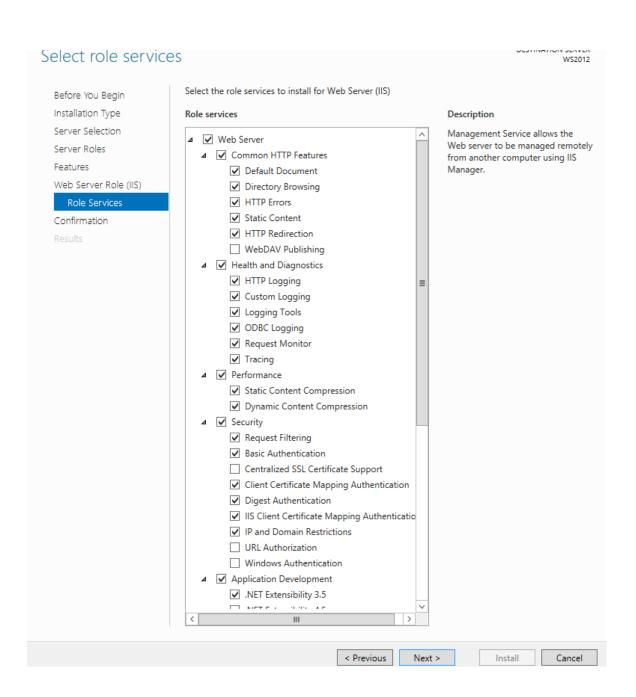
< Previous

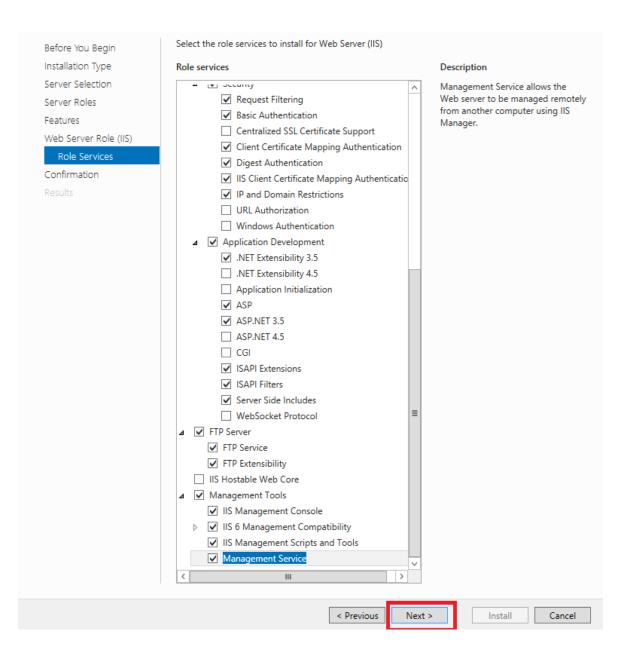
Next >

More information about Web Server IIS

Cancel

Install





3 October, 2014

Confirm installation selections

Before You Begin Installation Type

Server Selection

Server Roles

DESTINATION SERVER WS2012

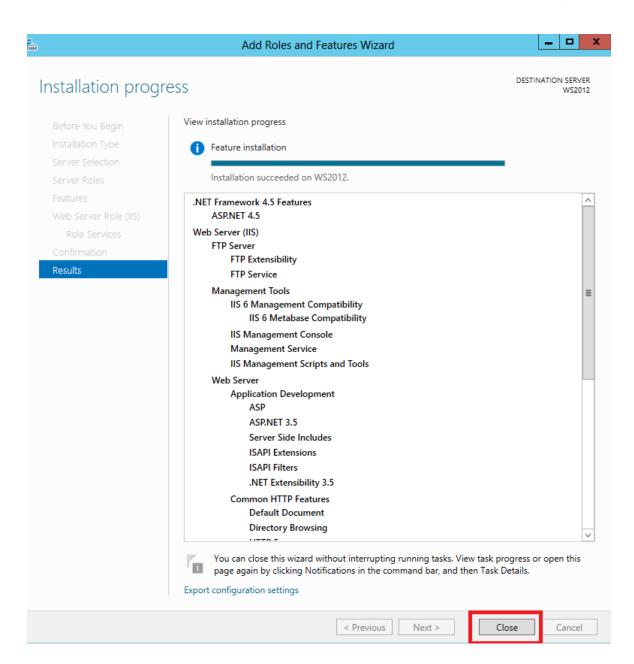
To install the following roles, role services, or features on selected server, click Install.

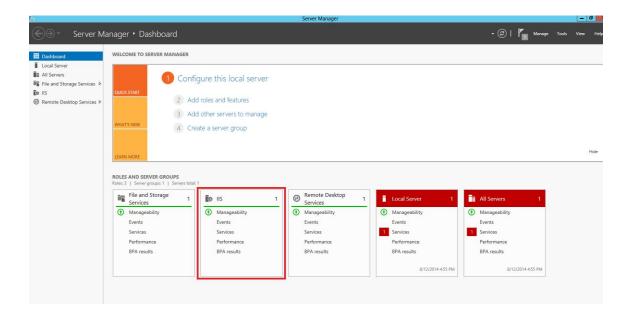
Restart the destination server automatically if required

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.

atures		
eb Server Role (IIS)	.NET Framework 4.5 Features	^
Role Services	ASP.NET 4.5	
firmation	Web Server (IIS)	
	FTP Server	
ults	FTP Extensibility	
	FTP Service	
	Management Tools	
	IIS 6 Management Compatibility	_
	IIS 6 Metabase Compatibility	=
	IIS Management Console	
	Management Service	
	IIS Management Scripts and Tools	
	Web Server	
	Application Development	
	ASP	
	ASP.NET 3.5	
	Server Side Includes	
	ISAPI Extensions	
	ISAPI Filters	
	.NET Extensibility 3.5	
	Common HTTP Features	
	Default Document	
	Directory Browsing	
	HTTP Errors	
	HTTP Redirection	
	Static Content	~
	Export configuration settings Specify an alternate source path	
	< Previous Next > Install	Cancel

	Add Roles and Features Wizard	
Installation progre	SS	DESTINATION SERVER WS2012
Before You Begin	View installation progress	
Installation Type	i Feature installation	
	Installation started on WS2012	
Features	.NET Framework 4.5 Features	^
Web Server Role (IIS)	ASP.NET 4.5	
Role Services	Web Server (IIS) FTP Server	
Confirmation	FTP Extensibility	
Results	FTP Service	
	Management Tools	=
	IIS 6 Management Compatibility IIS 6 Metabase Compatibility	
	IIS Management Console	
	Management Service	
	IIS Management Scripts and Tools	
	Web Server	
	Application Development ASP	
	ASP.NET 3.5	
	Server Side Includes	
	ISAPI Extensions ISAPI Filters	
	.NET Extensibility 3.5	
	Common HTTP Features	
	Default Document	
	Directory Browsing	~
	You can close this wizard without interrupting running tasks. View task page again by clicking Notifications in the command bar, and then Task Export configuration settings	
	< Previous Next >	Close Cancel





Installation Package for Integra32[™] Web Client

After IIS is installed go to the folder that contains the installation package for Integra Client.



Double click on the setup file.

🛃 IntegraClient1.0
Welcome to the IntegraClient1.0 Setup Wizard
The installer will guide you through the steps required to install IntegraClient1.0 on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel < Back Next >

Click 'Next' to continue with installation.

🛃 IntegraClient 1.0	
Select Installation Address	
The installer will install IntegraClient1.0 to the following web location.	
To install to this web location, click "Next". To install to a different web lo	cation, enter it below.
Site: Default Web Site Virtual directory: IntegraClient1.0	<u>D</u> isk Cost
Cancel < Ba	sk <u>N</u> ext >
ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
Back - 🕤 - 💌 😰 🍊 🔎 Search 🥎 Favorites 🍕	3 🗟 - 📐 🖂 🦓
ddress http://localhot//IntergaClient1.0/c_fault.aspx	Go Links

"Virtual Directory" is the name of the website you are creating

Set the installation location and click 'Next' to continue.

🙀 IntegraClient1.0			
Confirm Installation			
The installer is ready to install IntegraClier	nt1.0 on your comp	uter.	
Click "Next" to start the installation.			
	Cancel	< <u>B</u> ack	<u>N</u> ext >

Click 'Next' to continue with installation.

🙀 IntegraClient1.0			
Installing IntegraClient1	.0		
IntegraClient1.0 is being installed.			
Please wait			
	Cancel	< <u>B</u> ack	<u>N</u> ext >

🔂 IntegraClient1.0			
Installing IntegraClient	1.0		
IntegraClient1.0 is being installed.			
Please wait			
	Cancel	< <u>B</u> ack	<u>N</u> ext >
🙀 IntegraClient1.0			
IntegraClient1.0			
	installed.		
Installation Complete	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		
Installation Complete IntegraClient1.0 has been successfully	installed.		

Click 'Close' to complete the installation.

Login via Web Client

Open Microsoft Internet Explorer and enter the address of the local server to login. Click 'Go'.

http://localhost/IntegraClient1.0/default.aspx

🚰 Cannot find server - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
🕞 Back 👻 🕘 👻 😰 🏠 🔎 Search 🤺 Favorites	🥝 🍰 🍓 🖂 🖏
Address http://localhost/IntergaClient1.0/default.aspx	🔽 🄁 Go 🛛 Links 🌺
	_
	<u> </u>
Cone	📄 🔮 Internet 🥼

Substitute an IP address or the server machine's name for "localhost" to connect to a server across a network (including the Internet).

http://IP/IntegraClient1.0/default.aspx

http://server machine's name/IntegraClient1.0/default.aspx

For local testing you can use "localhost" or 127.0.0.1

🚰 Login - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	2
🕞 Back 🔹 🕥 - 💌 💈 🚮 🔎 Search 🤺 Favorites 🤣 🖾 - چ 🚍	- 28
Address 🙆 http://125.100.75.232/IntegraClient1.0/default.aspx 🗾 🄁 Go	Links »
English English Français Danois Nederlands Vederlands User Name: Password: Sites: Default Login	
l 🖉 🛛 🖉 Internet	

Select a language for the user to operate with (the default is English). Enter the user's name and password, and then click 'Login'.



Important notes:

Verify that IIS web services and Integra Client and Server applications are not blocked by a firewall.