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
Share the Integra32 folder:
• 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’.

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

Turn Windows features on or off

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

- Indexing Service
- Internet Explorer 8
- Internet Information Services
- FTP Server
- Web Management Tools
  - IIS 6 Management Compatibility
  - IIS Management Console
  - IIS Management Scripts and Tools
  - IIS Management Service
- World Wide Web Services
  - Application Development Features
    - .NET Extensibility
    - ASP
    - ASP.NET
    - CGI
    - ISAPI Extensions
    - ISAPI Filters
    - Server-Side Includes
  - Common HTTP Features
    - Default Document
    - Directory Browsing
    - HTTP Errors
    - HTTP Redirection
    - Static Content
    - WebDAV Publishing
- Health and Diagnostics
- Performance Features
- Security
  - Basic Authentication
  - Client Certificate Mapping Authentication
  - Digest Authentication
  - IIS Client Certificate Mapping Authentication
  - IP Security
  - Request Filtering
  - URL Authorization
  - Windows Authentication
- Internet Information Services Hostable Web Core
  - Microsoft .NET Framework 3.5.1
  - Microsoft Message Queue (MSMQ) Server

OK  Cancel
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.
Integra 32™ 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
From the drop down menu, select V2.0 for .Net CLR version
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)
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.
Browse to the Integra Client 1.0 application again after restarting the DefaultAppPool
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.
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.

Click Install to install the Role selected.
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.
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.
Add Roles and Features Wizard

Before you begin

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.

To remove roles, role services, or features:
Start the Remove Roles and Features Wizard

Before you continue, verify that the following tasks have been completed:
- 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

Select installation type

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 or feature-based installation**
  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.
Select destination server

Select a server or a virtual hard disk on which to install roles and features.

- Select a server from the server pool
- Select a virtual hard disk

Server Pool

Filter:

<table>
<thead>
<tr>
<th>Name</th>
<th>IP Address</th>
<th>Operating System</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS2012</td>
<td>125.100.75.206</td>
<td>Microsoft Windows Server 2012 Standard</td>
</tr>
</tbody>
</table>

1 Computer(s) found

This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

Select server roles

Select one or more roles to install on the selected server.

Roles

- Active Directory Rights Management Services
- Application Server
- DHCP Server
- DNS Server
- Fax Server
- File And Storage Services
- Hyper-V
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)

Description

Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
Add Roles and Features Wizard

Add 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.

- Web Server (IIS)
  - Management Tools
    - [Tools] IIS Management Console

☑️ Include management tools (if applicable)

Add Features  Cancel

Add Roles and Features Wizard

Select server roles

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Select one or more roles to install on the selected server.

Roles
- Active Directory Rights Management Services
- Application Server
- DHCP Server
- DNS Server
- Fax Server
- File And Storage Services (Installed)
- Hyper-V
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services (Installed)
- Volume Activation Services
- Web Server (IIS)
- Windows Deployment Services
- Windows Server Update Services

☑️ Web Server (IIS)

Description
Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

Next >
Select features

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

- .NET Framework 3.5 Features (Installed)
  - .NET Framework 3.5 (includes .NET 2.0 and 3.0)
  - HTTP Activation
    - Non-HTTP Activation

- .NET Framework 4.5 Features (Installed)
  - Background Intelligent Transfer Service (BITS)
  - BitLocker Drive Encryption
  - BitLocker Network Unlock
  - BranchCache
  - Client for NFS
  - Data Center Bridging
  - Enhanced Storage
  - Failover Clustering
  - Group Policy Management

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.

Web Server Role (IIS)

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, a unified Web platform that integrates IIS 8.0, ASP.NET, and Windows Communication Foundation.

Things to note:

- Using Windows System Resource Manager (WSRM) 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
Select the role services to install for Web Server (IIS)

- **Role Services**
  - **Security**
    - Request Filtering
    - Basic Authentication
    - Client Certificate Support
    - Authentication
    - Digest Authentication
    - IIS Client Certificate Mapping Authentication
    - IP and Domain Restrictions
    - URL Authorization
    - Windows Authentication
  - **Application Development**
    - .NET Extensibility 3.5
    - .NET Extensibility 4.5
    - Application Initialization
    - ASP
    - ASP.NET 3.5
    - ASP.NET 4.5
    - CGI
    - ISAPI Extensions
    - ISAPI Filters
    - Server Side Includes
    - WebSocket Protocol
  - **FTP Server**
    - FTP Service
    - FTP Extensibility
  - **Management Tools**
    - IIS Management Console
    - IIS 6 Management Compatibility
    - IIS Management Scripts and Tools
  - **Management Service**

**Description**
Management Service allows the Web server to be managed remotely from another computer using IIS Manager.
Confirm installation selections

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

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.

- .NET Framework 4.5 Features
  - ASP.NET 4.5

- Web Server (IIS)
  - FTP Server
    - 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
Installation progress

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

View installation progress

Feature installation
Installation started on WS2012

.NET Framework 4.5 Features
ASP.NET 4.5
Web Server (IIS)
  FTP Server
    FTP Extensibility
    FTP Service
  Management Tools
    IIS 6 Management Compatibility
    IIS 5 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 progress or open this page again by clicking Notifications in the command bar, and then Task Details.

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.
Click ‘Next’ to continue with installation.
“Virtual Directory” is the name of the website you are creating.

Set the installation location and click ‘Next’ to continue.
Click ‘Next’ to continue with installation.

The installer is ready to install IntegraClient 1.0 on your computer. Click "Next" to start the installation.

IntegraClient 1.0 is being installed.

Please wait...
RBH Access Technologies Inc.

3 October, 2014

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

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
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.