



Infor Staffing Optimizer for Healthcare

Server Prerequisites

Background

Infor Staffing Optimizer for Healthcare (ISOH) incorporates an automated deployment process that allows for deployment with as little as one PowerShell command. This deployment process does not install supporting software. This document outlines supporting software that must be installed manually.

Common

All servers must have the following supporting software installed.

PowerShell

PowerShell is used to automate the deployment process. The deployment process requires that PowerShell 4.0 or newer be installed. This can be installed by utilizing “Server Roles” and selecting the following “Features” –

- Windows PowerShell
 - Windows PowerShell 4.0
 - Windows PowerShell 2.0 Engine
 - Windows PowerShell ISE

Note that some items will be automatically added as those items are prerequisites to the items being selected.

Update PowerShell

Once the “base” version of PowerShell is installed, the latest version should be installed. PowerShell is part of the Windows Management Framework. The current version of WMF is 5.1 and can be found at <https://www.microsoft.com/en-us/download/details.aspx?id=54616>. It is highly recommended that the most recent version be installed.

Web Server

The web server must have the following supporting software installed.

Internet Information Services (IIS)

ISOH is distributed using Internet Information Services (IIS). This can be installed by utilizing the “Server Roles” and selecting the following –

- Web Server (IIS)
 - Web Server
 - Common HTTP Features
 - Default Document
 - HTTP Errors
 - Static Content
 - Health and Diagnostics
 - HTTP Logging
 - Performance
 - Static Content Compression
 - Security
 - Request Filtering
 - Application Development



Infor Staffing Optimizer for Healthcare

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- .NET Extensibility 4.5 (or .NET Extensibility 4.6)
- ASP.NET 4.5 (or ASP.NET 4.6)
- ISAPI Extensions
- ISAPI Filters
- Management Tools
 - IIS Management Console

Note that some items will be automatically added as those items are prerequisites to the items being selected.

Microsoft .Net Framework 4.5.2

Some components of ISOH are developed using the Microsoft .Net Framework 4.5.2. Each version of the .Net Framework is installed independently, it should be verified that the correct version is installed. Two steps are required to ensure complete installation. Install .Net 4.5 by utilizing “Server Roles” and selecting the following “Features” –

- .NET Framework 4.5 Features (or .NET Framework 4.6 Features)
 - .NET Framework 4.5 (or .NET Framework 4.6)
 - ASP.NET 4.5 (or ASP.NET 4.6)
 - WCF Services
 - TCP Port Sharing

Next, download and install .Net 4.5.2 from <https://support.microsoft.com/en-us/help/2901907/microsoft--net-framework-4-5-2-offline-installer-for-windows-server-20>.

Microsoft .Net Framework 4.8

Some security requirements of ISOH (SameSite Cookies) require having the Microsoft .Net Framework 4.8 installed

Download and install .Net 4.8 from <https://dotnet.microsoft.com/download/dotnet-framework/net48>

Microsoft .Net Core 2.1.19

Some components of ISOH are developed using Microsoft .Net Core. This can be installed by downloading & installing the Asp.Net Core Runtime – Windows Hosting Bundle from –

<https://dotnet.microsoft.com/download/dotnet-core/thank-you/runtime-aspnetcore-2.1.19-windows-hosting-bundle-installer>

Make sure to run the installer .exe as Administrator.

Full instructions are available at –

<https://docs.microsoft.com/en-us/aspnet/core/publishing/iis>

These instructions partially overlap with what was done for IIS.

IIS URL Rewrite

ISOH requires the **URL Rewrite** extension for IIS to implement URLs that are easier for users to remember. This can be installed via the Microsoft Web Platform Installer, <https://www.microsoft.com/web/downloads/platform.aspx>, or by directly downloading the extension at <https://www.iis.net/downloads/microsoft/url-rewrite>.



Infor Staffing Optimizer for Healthcare

Server Prerequisites

IIS WebDAV

ISOH requires the **Web Distributed Authoring and Versioning (WebDAV) for IIS** feature being **turned off**. This can be done by disabling WebDAV Publishing feature. Navigate to the feature (see <https://docs.microsoft.com/en-us/iis/configuration/system.webserver/webdav/>) and uncheck it. Restart of the system may be needed.

Database Servers

The database server must have the following supporting software installed.

Microsoft SQL Server – Transactional Database

ISOH utilizes Microsoft SQL Server for data storage. The SQL Server requires the following components to be installed –

- Feature Selection
 - Instance Features
 - Database Engine Services [No sub-options]
 - Shared Features
 - Management Tools - Basic
 - Management Tools - Complete
 - Server Configuration
 - Service Accounts
 - SQL Server Agent
 - Account Name
 - Account must have permission to access TDB, DW, & AS *
 - Startup Type
 - Automatic
 - Collation
 - Database Engine
 - SQL_Latin1_General_CP1_CI_AS
- Database Engine Configuration
 - Server Configuration
 - Authentication Mode = Windows authentication mode (Mixed Mode is acceptable though not required) Data Warehouse / Reporting Server

Microsoft SQL Server – Data Warehouse

ISOH utilizes Microsoft SQL Server for data storage & reporting. The SQL Server requires the following components to be installed –

- Feature Selection
 - Instance Features
 - Database Engine Services [No sub-options]
 - Analysis Services
 - Reporting Services - Native
 - Shared Features
 - Integration Services
 - Management Tools - Basic
 - Management Tools - Complete



Infor Staffing Optimizer for Healthcare

Server Prerequisites

- Server Configuration
 - Service Accounts
 - SQL Server Agent
 - Account Name
 - Account must have permission to access TDB, DW, & AS *
 - Startup Type
 - Automatic
- Collation
 - Database Engine
 - SQL_Latin1_General_CP1_CI_AS
 - Analysis Services
 - Latin1_General_CI_AS
- Database Engine Configuration
 - Server Configuration
 - Authentication Mode = Windows authentication mode (Mixed Mode is acceptable though not required)
 - Analysis Services Configuration
 - Server Mode = Multidimensional and Data Mining Mode
 - Reporting Services Configuration
 - Reporting Services Native Mode
 - Install and configure

SQL Server Data Tools – Data Warehouse

While not strictly required it may be necessary to install Microsoft Visual Studio and the SQL Server Data Tools in order to debug processes such as the Extract Transform & Load (ETL) as well as Reports. Visual Studio can be downloaded from –

<https://www.visualstudio.com/downloads/>

“Visual Studio Community” edition is sufficient. During the installation process choose a custom install, unselecting the default options and selecting “SQL Server Data Tools”. After installation Visual Studio will notify the user that one or more updates are available including an update to SQL Server Data Tools. The only update generally required is this one, follow the provided link to ensure the latest updates are applied.