

INSTALLATION

WEB CLIENT SINCE V13.0.2.1

87298374 0987298374982739
8470 2 **Q-DBM** 7 1545 82138 12
7198723987 987239 98729872
PROCELLA 234 154 13 544 565
9872 2719827 7 27198723987
45 8912 687723 **VIDARA** 27198
21245 666 1214432 329 **O-QIS**
928 234 345 344 4718723987
0187309 445 455 4877298374
M-QIS DASHBOARD 772728498
81 4981 **DESTRA** 918 2589 23
59 **QS-STAT** 49814981 45598
M-QIS ENGINE 49983 259 1547
7487 29837409872 98374982
73984702 **SOLARA.MP** 987349
9283 120 38 485 0 2 38 49081



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1 SYSTEM REQUIREMENT

The following special system requirements are in place for the server, on which the central server provision as well as the Web client are installed, that differ from the system requirements of classic server-client applications (Windows version):

Operating systems

- ***The following Windows server operating systems supported by Microsoft: Server2012 R2, Server2016, Server2019***

Number of cores

- ***Server with 8 cores***

RAM

- ***8 GB RAM***

Databases

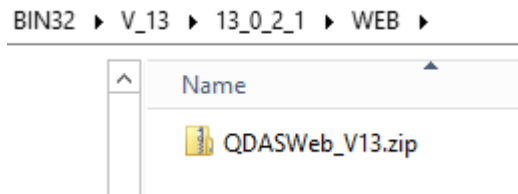
- ***MS SQL as well as Oracle databases***



Due to the restrictions that apply to MS SQL *Express* databases, they are not recommended.

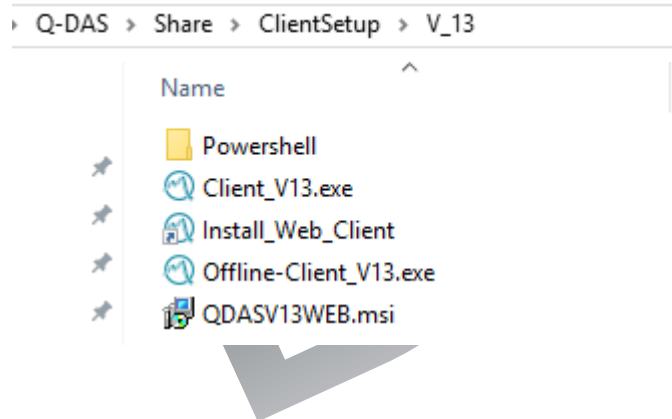
The new components of the setup that must be available in the share installation are:

The WEB subfolder of the minor release 13_0_1_x:



A zip file can be found there, which is unzipped later during the web client setup.

In addition to the client setup you need the web components as Windows Installer package.



2 INSTALLATION (SERVER)

Client distribution can take place after a successful server provision. This is described in a separate document.

The web client setup is realised within the client installation. The web client installation must occur on the same PC/server as the server provision. Installing the web client to another server is excluded.

To note here:



It is not recommended to operate the Q-DAS web applications with access databases (licence and configuration). It is necessary to transfer **all** Q-DAS databases to Microsoft SQL or Oracle when using the Q-DAS Web. If access databases are used for test purposes, the share installation as well as the web client must have been installed via a UNC release on the server and the rights must have been changed to "full access".



The server installation (share) must be placed with the Version 13.0.2.x. Otherwise, the necessary components are missing for web setup.



The installation is carried out on a server operating system. No operability guarantee can be taken on for web installations on a non-server operating system.



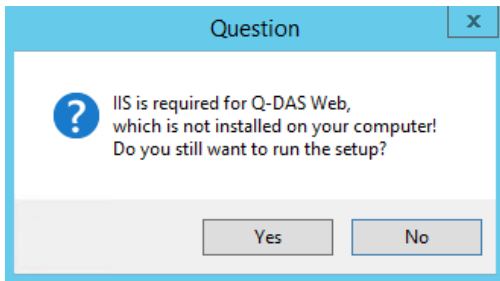
Currently only qs-STAT Web, solara.MP Web, Q PLV and Q RTM Web are operable with Version 13.0.2.x.



While connecting to the SQL databases, username and password must be utilised in the database connection. Registration through Windows authorisation is currently not possible for the IIS.

3 NECESSARY CONFIGURATIONS BEFORE SETUP

The IIS must be activated and certain options set before a web client setup takes place. Otherwise, the following report comes during web setup:



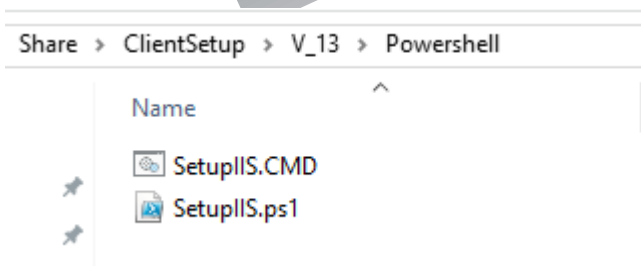
The setup in this case shall be directly stopped and the configuration of the IIS shall be carried out. In order to be able to use the IIS in the Q-DAS environment, certain prerequisites must be met.



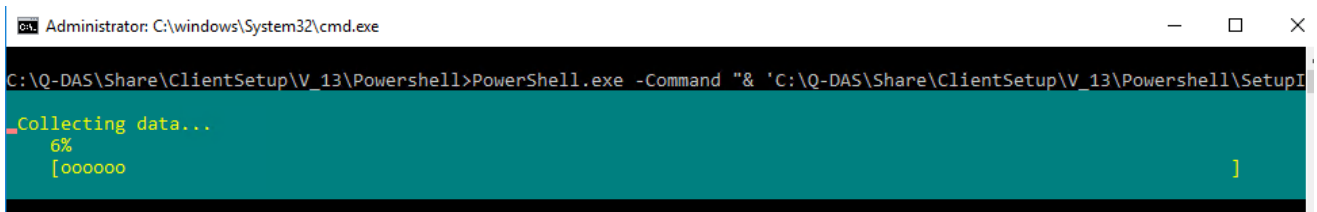
These must be setup by the customer's IT.

3.1 Installation of the IIS:

In order to install the IIS to the server, a PowerShell script is made available. After a server provision of the Version 13.0.2, this is located in the subfolder next to the client setup:



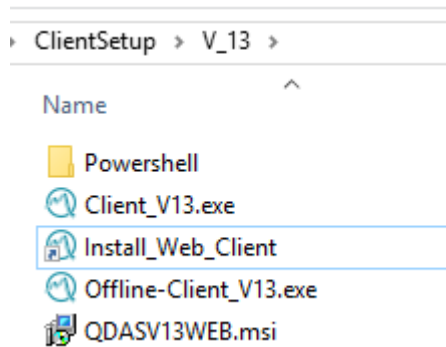
The necessary components in IIS are activated by running the CMD file as administrator.



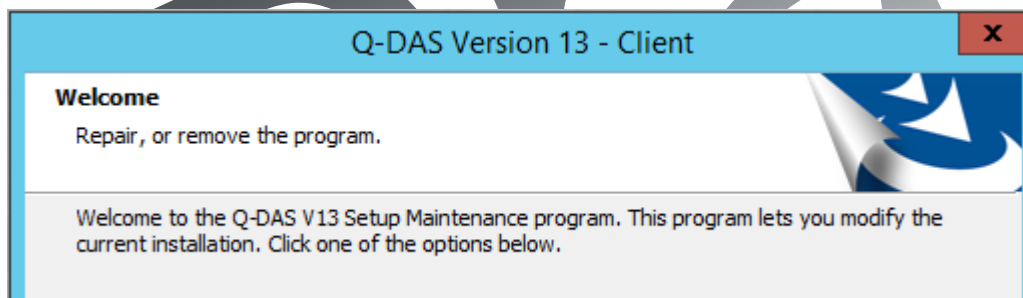
A short description of all options that will be activated can be found in Section 7 "Configuring the IIS".

4 INSTALLATION OF THE WEB CLIENT

The installation of the web client is started via the client setup from Version 13.0.2.x together with the “-qdas_web” start parameter. The “Install_Web_Client” start-link is made available for this.






After starting installation, the welcome window comes with the notice that “Q-DAS Web” will also be installed.



A “standard client” is installed along with the web client:

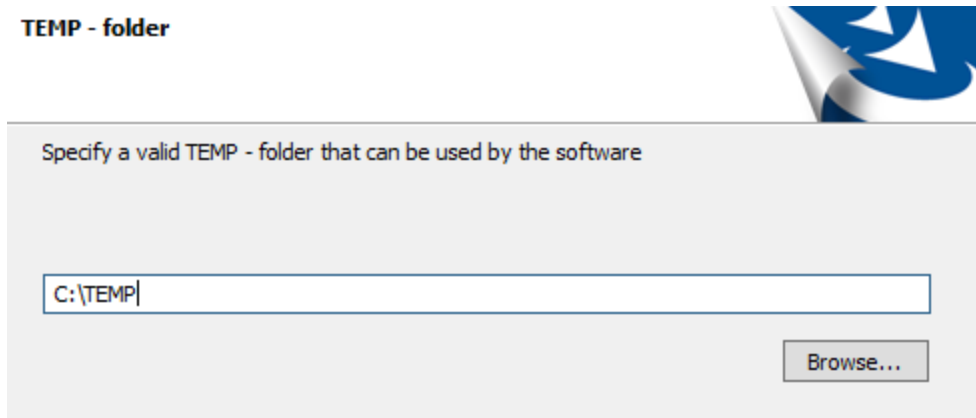


	Q-DAS V13 Q-DAS GmbH	10/27/2020
	Q-DAS V13 Client Q-DAS GmbH	10/27/2020
	Q-DAS V13 Web Hexagon	110 KB 10/27/2020

The general description of the client setup is described in the description “V13_OPD_Installation_CC_CLIENT”.

The only difference in setup is the question of a TEMP directory.

TEMP - folder



Reason:

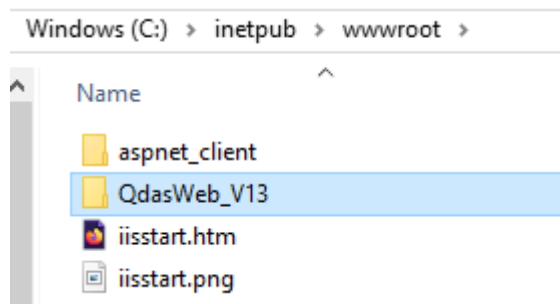
In standard setup, the %temp% folder is used for the temporary files. The IIS is required for the Q-DAS Web. This user has no %temp% folder of their own, the web application would then not be operable. In order to get around this, the web client setup specifies its own Temp directory, which will then be created on the client.

Excerpt from the *ClientName*_qs-STAT.ini:

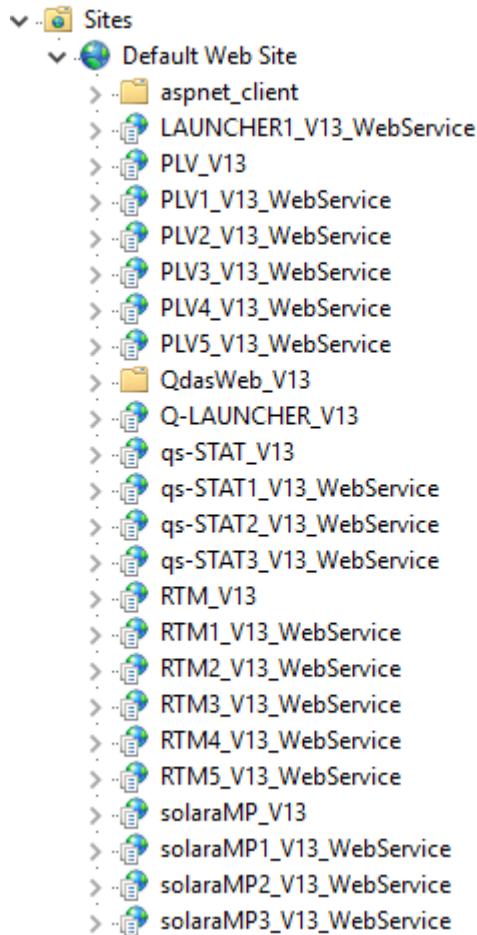
```
; TEMP-Ordner // Temp folder  
tmp=C:\TEMP\qs-STAT
```

The following elements exist after the web client setup:

As a subfolder of c:\inetpub\wwwroot das Verzeichnis QdasWeb_V13.



The platforms were created in IIS. In order to ensure load distribution, 3 WebService are created for qs-STAT and solara.MP respectively, 5 WebService are created for RTM and PLV respectively. Access to the different WebService occur automatically via the application.

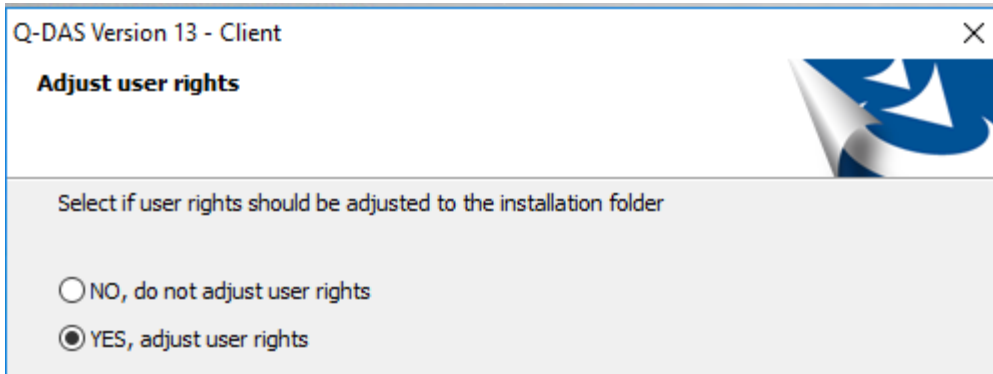


The path to %Client_Product%.ini was indicated per WebService in the corresponding qs-STAT-loc.ini.

```
qs-STAT-loc.ini
1 [Paths]
2 webservice_logfile=C:\TEMP\PLV1web_V13.log
3 logfile_level=2
4 qs_stat_ini_file=\\DeweiTest2016\Q-DAS\Share\INI\DEFAULT\DeweiTest2016_V13_PLANT_VIEWER.INI
5
```

5 FOLDER RELEASE FOR THE IIS USER

An inquiry appears during setup asking whether the necessary rights should be set. Without these rights, the web application is not operable.

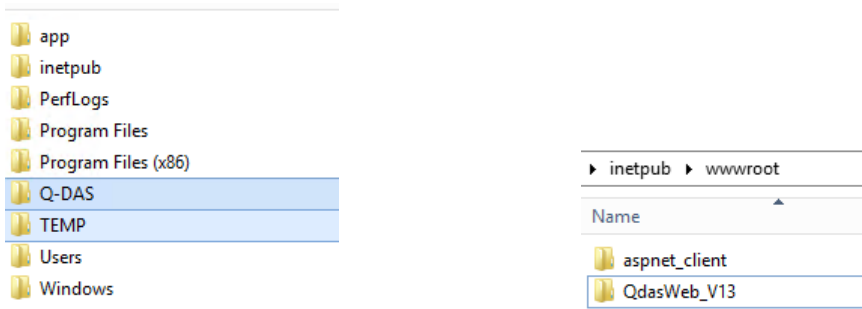


The rights are set for:

- IUSR
- IIS_IUSRS

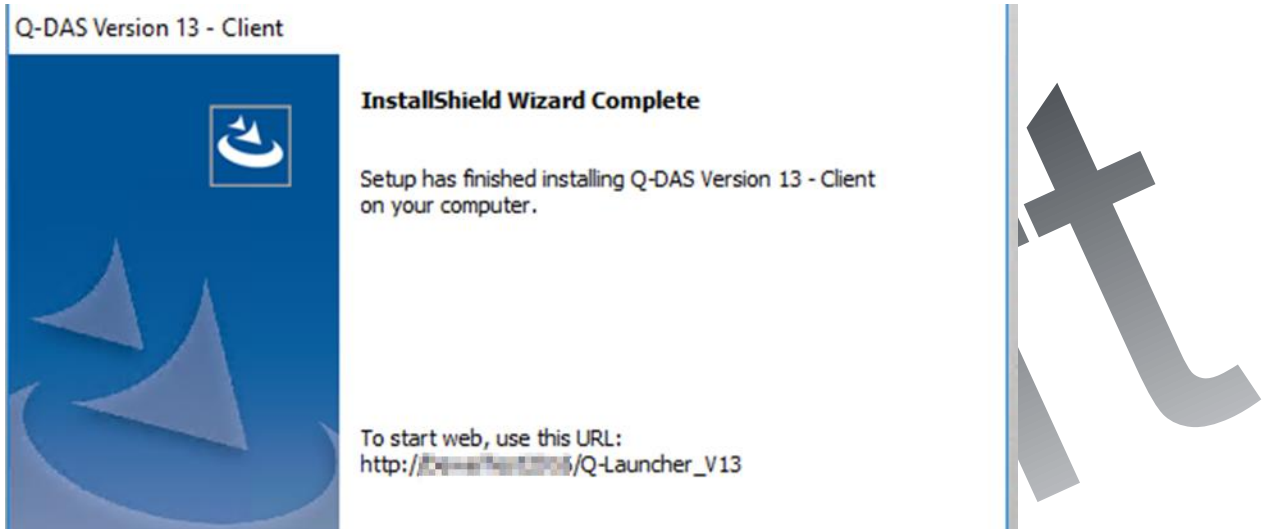
The user “IUSR” as well as “IIS_IUSRS” require full access to the following directories:

- the selected TEMP directory
- the Q-DAS folder with the provision of the share
- the folder QdasWeb_V13\Q-Launcher_V13 at C:\inetpub\wwwroot



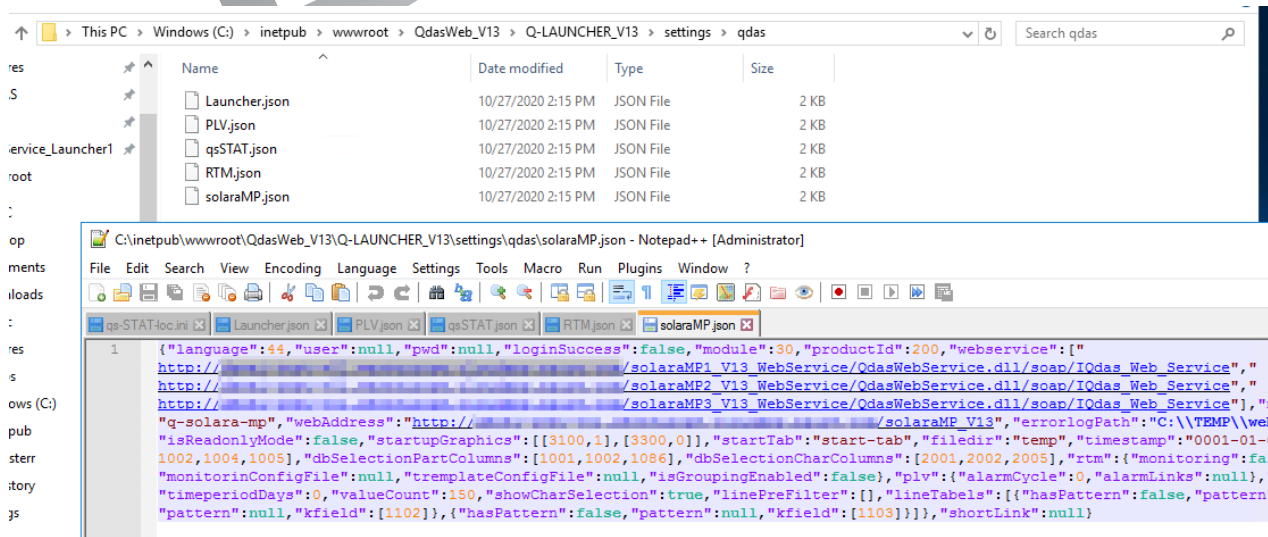
6 QS-STAT-WEB FIRST START

After the web client setup, the URL is shown that opened the website and started the Q-Launcher.



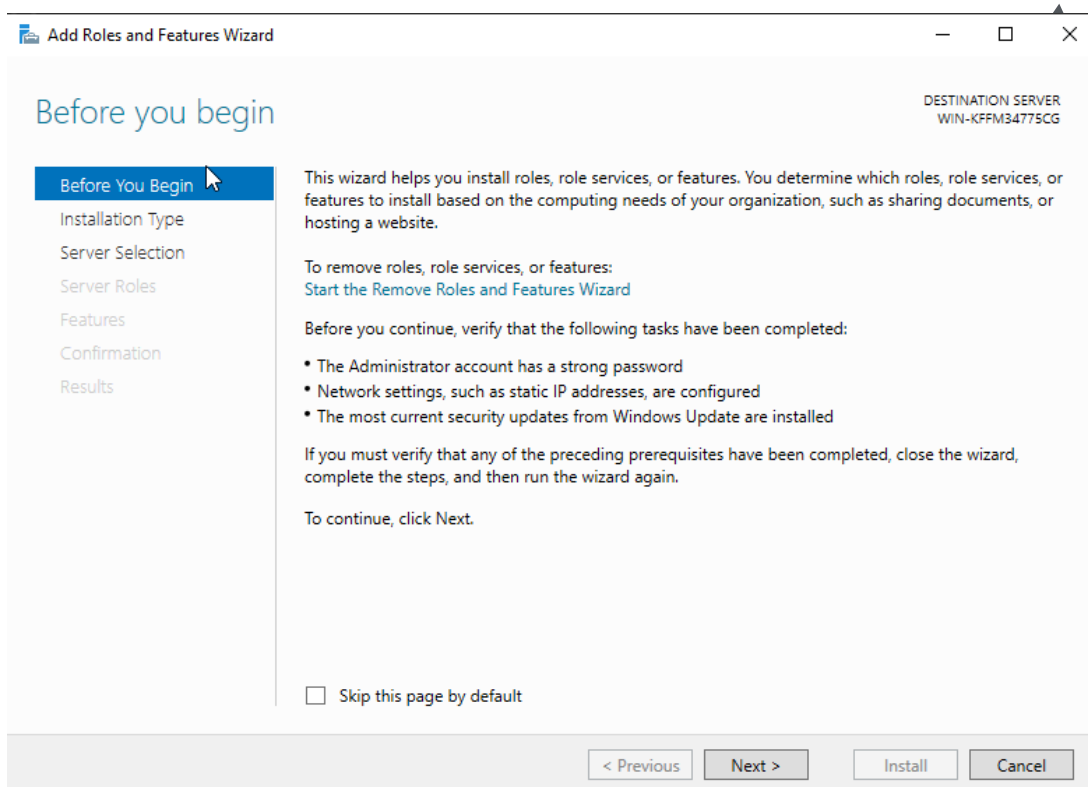
Depending on the operating system, the IIS must be started first.

If this link cannot be used, for example by a web installation outside the company network (cloud), the configuration files may have to be modified to replace the server name with the DNS release. This occurs in the files in the folder C:\inetpub\wwwroot\QdasWeb_V13\Q-LAUNCHER_V13\settings\qdas.



7 CONFIGURING THE IIS

This section describes in broad strokes the setting up of the IIS, if this were to be carried out manually. This shall serve as clarification everything that is activated by the activation of the IIS with the PowerShell script.



Add Roles and Features Wizard

DESTINATION SERVER
WIN-KFFM34775CG

Select installation 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 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.

< Previous Next > Install Cancel

Add Roles and Features Wizard

DESTINATION SERVER
WIN-KFFM34775CG

Select destination server

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 features.

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

Server Pool

Filter:

Name	IP Address	Operating System
WIN-KFFM34775CG	10.0.2.15	Microsoft Windows Server 2019 Standard

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, 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.

< Previous Next > Install Cancel

Select server roles

DESTINATION SERVER
WIN-KFFM34775CG

- 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 Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- File and Storage Services (1 of 12 installed)
- Host Guardian Service
- Hyper-V
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)**
- Windows Deployment Services
- Windows Server Update Services

Description

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

< Previous

Next >

Install

Cancel

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

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
- .NET Framework 4.7 Features (2 of 7 installed)
 - .NET Framework 4.7 (Installed)
 - ASP.NET 4.7
 - WCF Services (1 of 5 installed)
 - HTTP Activation
 - Message Queuing (MSMQ) Activation
 - Named Pipe Activation
 - TCP Activation
 - TCP Port Sharing (Installed)
- Background Intelligent Transfer Service (BITS)
- BitLocker Drive Encryption
- BitLocker Network Unlock
- BranchCache
- Client for NFS
- Containers
- Data Center Bridging
- Direct Play
- Enhanced Storage
- Failover Clustering
- Group Policy Management
- Host Guardian Hyper-V Support
- I/O Quality of Service
- IIS Hostable Web Core
- Internet Printing Client
- IP Address Management (IPAM) Server
- iSNS Server service
- LPR Port Monitor
- Management OData IIS Extension

Description

HTTP Activation supports process activation via HTTP. Applications that use HTTP Activation can start and stop dynamically in response to work items that arrive over the network via HTTP.

< Previous Next > Install Cancel

Add Roles and Features Wizard

Add features that are required for HTTP Activation?

You cannot install HTTP Activation unless the following role services or features are also installed.

- Web Server (IIS)
 - Web Server
 - Application Development
 - ASP.NET 4.7
 - ISAPI Extensions
 - ISAPI Filters
 - .NET Extensibility 4.7
 - Windows Process Activation Service
 - Configuration APIs
 - Process Model

Include management tools (if applicable)

Add Features Cancel

Add Roles and Features Wizard

Web Server Role (IIS)

DESTINATION SERVER
WIN-KFFM34775CG

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
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) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.

- 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

Select the role services to install for Web Server (IIS)

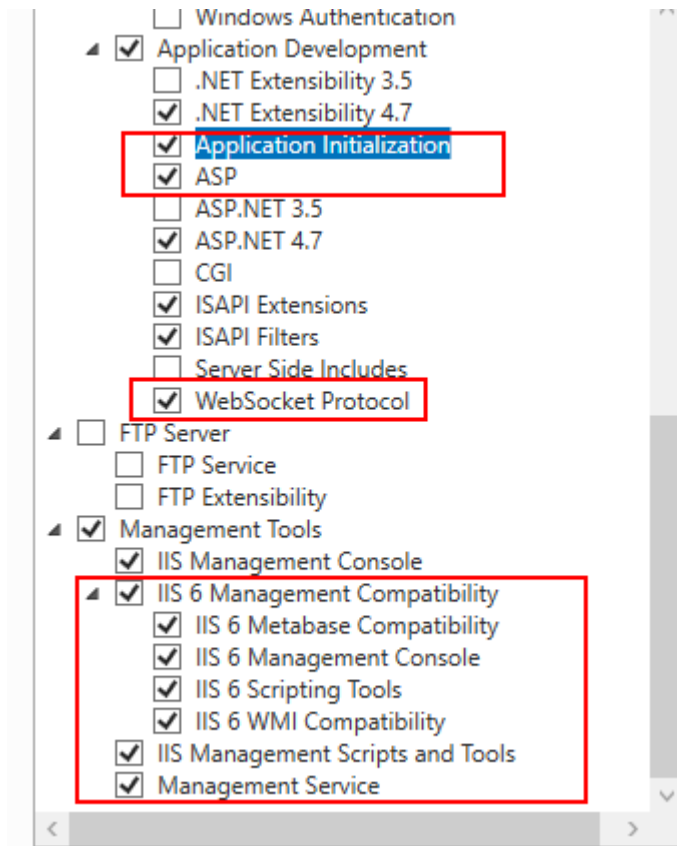
Role services

- Web Server
 - Common HTTP Features
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - Static Content
 - HTTP Redirection
 - WebDAV Publishing
 - Health and Diagnostics
 - HTTP Logging
 - Custom Logging
 - Logging Tools
 - ODBC Logging
 - Request Monitor
 - Tracing
 - Performance
 - Static Content Compression
 - Dynamic Content Compression
 - Security
 - Request Filtering
 - Basic Authentication
 - Centralized SSL Certificate Support
 - Client Certificate Mapping Authentication
 - Digest Authentication
 - IIS Client Certificate Mapping Authentication
 - IP and Domain Restrictions
 - URL Authorization
 - Windows Authentication

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Confirm installation selections

DESTINATION SERVER
WIN-KFFM34775CG

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 4.7 Features
 - ASP.NET 4.7
 - WCF Services
 - HTTP Activation
- Web Server (IIS)
 - Management Tools
 - IIS 6 Management Compatibility
 - IIS 6 Management Console
 - IIS 6 Scripting Tools
 - IIS 6 Metabase Compatibility
 - IIS 6 WMI Compatibility
 - IIS Management Console
 - Management Service
 - IIS Management Scripts and Tools
 - Web Server
 - Application Development
 - Application Initialization
 - ASP
 - ASP.NET 4.7
 - ISAPI Extensions
 - ISAPI Filters
 - .NET Extensibility 4.7
 - WebSocket Protocol
 - Common HTTP Features
 - Default Document
 - Directory Browsing

[Export configuration settings](#)
[Specify an alternate source path](#)

< Previous

Next >

Install

Cancel