

# Installation Guide for .NET

Appeon® PowerServer® 2020 (on .NET)  
FOR WINDOWS

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# 1 Introduction

## 1.1 Overview

Appeon PowerServer is the first and revolutionary solution that leverages the PowerBuilder IDE for building an application and deploying it as a Windows client/server app, a Windows browser-based Web app, and an iOS/Android native mobile app. PowerBuilder is a very mature and productive 4GL development environment, running on the Windows platform, and offering distinguished features such as MDI windows, DataWindows, menus, and toolbars. All of these powerful features will be available in the deployed application.

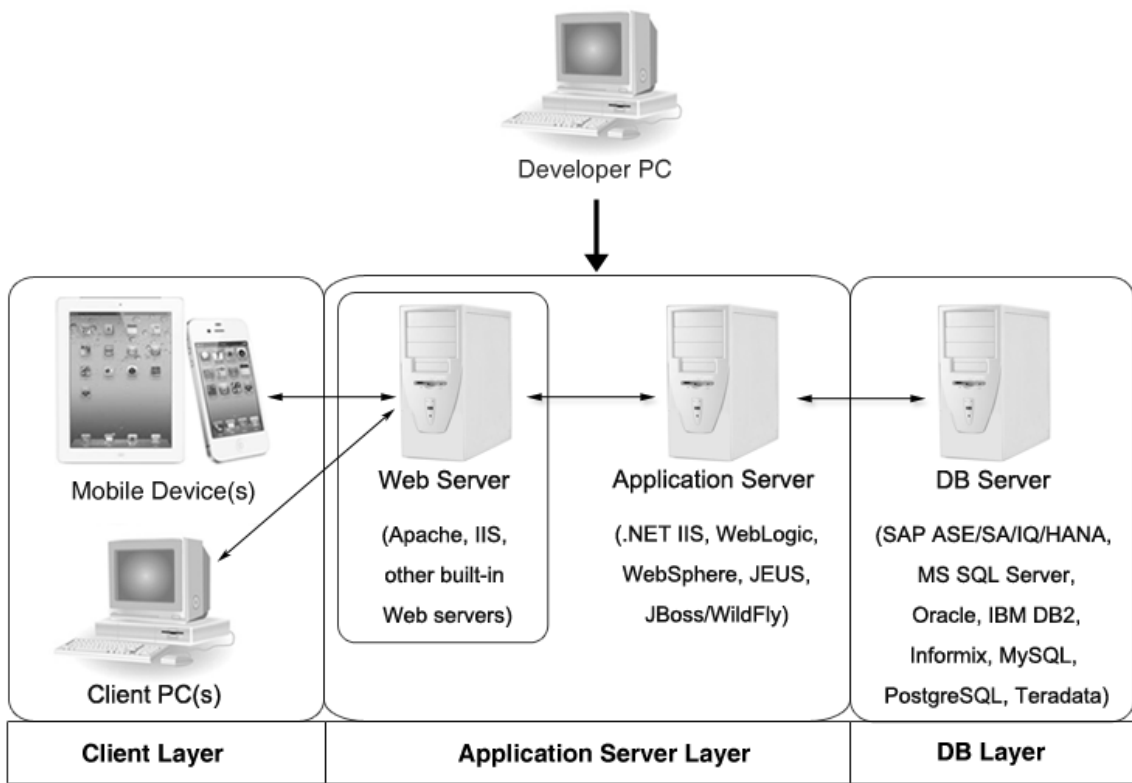
From the native source code of PowerBuilder applications, Appeon PowerServer can generate n-tier applications that can run on the Web or mobile environment. The application that run on the Web environment can automatically and precisely replicate the Client/Server user interface with HTML running in standard Windows Web browsers, while the application that run on the mobile environment can automatically take the typical mobile user interface for the iOS and Android OS. The application business logic including DataWindows, Embedded SQL and dynamic SQLs is deployed to a Java-based or .NET-based back-end. These applications offer the rich user experience of the original PowerBuilder applications and deliver the superior Quality Of Service (QOS) of the n-tier architecture and J2EE platform, as well as greater availability, scalability, security and reliability.

Appeon PowerServer allows the entire application conversion process to be executed within the PowerBuilder IDE. It does not require the developer to write a single line of code. Only standard PowerBuilder programming skills are required.

## 1.2 System architecture

Appeon PowerServer works with standard n-tier architecture. Each tier serves a specific purpose in the architecture, though it may not necessarily reside in the same physical machine. For example, the Web server, application server and database server can reside in one machine or in different machines. A single tier may also be spread across multiple physical machines. For example, the application server can consist of a cluster of PowerServer computers to provide load balancing and failover.

**Figure 1.1: System architecture**



PowerServer applications deploy to the standard n-tier architecture - the client tier, middle tier (application server), and data tier (database) are logically separated. Each tier should have appropriate PowerServer Components and/or third-party software installed according to its role within the architecture. The following table briefly lists the tiers, roles, their purposes and the required Appeon/third-party software.

**Table 1.1: Tiers in the Appeon architecture**

Tier	Role	Purpose	PowerServer Component	Third-party Software
Client tier	Mobile Device	Runs the PowerServer native mobile applications.	Appeon Workspace (Optional)	None
	Client PC	Runs the PowerServer Web applications in Web browsers.	Appeon Xcelerator plug-in	Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera
Developer PC	Developer PC	Deploys your PowerBuilder application to the server.	PowerServer Toolkit	PowerBuilder
Middle tier	Web Server	Responds incoming requests from the client tier, and dispatches requests to the application server.	PowerServer Web Component	IIS

Tier	Role	Purpose	PowerServer component	Third-party Software
		Hosts the presentation layer of the deployed Web applications.		
	Application Server	Hosts the DataWindows of the PowerServer deployed applications, and provides the necessary run-time services to the deployed applications, such as DataWindow retrieval and update, Embedded SQLs, dynamic SQLs, security authentication etc. PowerServer application middle-tier can invoke Java components, external DLL functions, and C++ components. Furthermore, it supports Web Services for the most flexibility integrating with J2EE and .NET.	PowerServer Mobile/Web	NET IIS
Data tier	Database Server	Hosts the application database.	None	Oracle, SAP SQL Anywhere, SAP ASE, Microsoft SQL Server, IBM DB2, MySQL, Informix, or PostgreSQL.

- Client Tier

**Mobile device:** The mobile application client layer is implemented using universal C++ libraries and JavaScript libraries. The C++ libraries render the mobile-style UI and provide interface for calling the device native features, information and hardware (camera, GPS, etc.), and support accessing the client/offline database and running the offline application. The JavaScript libraries support the PowerScript or UI logic coded in the Window object, user object (including NVOs), menu object and any other visual objects. These client libraries are automatically included in Apeon Workspace or the packaged mobile app.

**Client PC:** The Web application client layer consists of two plug-ins and some C++/JavaScript libraries which are originally built into PowerServer Web Component and then automatically downloaded to the client when the application is run for the first time. The two plug-ins manage the download and caching of the Web application and also act as the bridge to interact between the C++/JS libraries and the Web page. The C++/JS libraries render the PowerBuilder-style Web graphical user interface in the Web browsers.

- Middle Tier

The middle tier, which hosts the business logic, is implemented with J2EE or .NET components. These components execute the DataWindows, Embedded SQLs, and dynamic SQLs of the deployed application. The middle tier deploys to the Java or .NET compliant

PowerServer, leveraging dozens of many-years of investments in DataWindows and other business logic.

- Data Tier

The database stores the raw data for the application and stored procedures, if any. The existing database from the PowerBuilder application can be simply re-used without modification so long as it is a PowerServer-certified database.

### 1.3 Editions and components

Apeon PowerServer 2020 provides the following editions for the Windows platform.

**Table 1.2: Apeon editions**

Product	Edition	Component	Description
-	-	<ul style="list-style-type: none"> <li>• PowerServer Toolkit</li> </ul>	<p>1) PowerServer Toolkit can only be installed from the <a href="#">PowerBuilder CloudPro Edition</a> setup program.</p> <p>2) PowerServer Toolkit supports deploying the mobile apps and the Web apps to the .NET-based or J2EE-based PowerServer back-ends.</p> <p>3) PowerServer Toolkit is free and need not to be activated.</p>
PowerServer (PB Edition)	Developer Edition	<ul style="list-style-type: none"> <li>• PowerServer (PB Edition)</li> <li>• Apeon Workspace</li> <li>• PowerServer (PB Edition) Help</li> </ul>	<p>1) The (PB Edition) Developer license supports both Web and mobile app deployments.</p> <p>2) The (PB Edition) Developer license runs on the .NET IIS server only, but not on the J2EE server.</p> <p>2) Although the Developer license is free, product activation is required within 30 days. The maximum number of online users is 5.</p>
	Standalone Production Edition	<ul style="list-style-type: none"> <li>• PowerServer (PB Edition)</li> <li>• Apeon Workspace</li> <li>• PowerServer (PB Edition) Help</li> </ul>	<p>1) The (PB Edition) Standalone Production license supports the mobile app deployment only, but not the Web app deployment.</p> <p>2) The (PB Edition) Standalone Production license runs on the .NET IIS server only, but not on the J2EE server.</p>



Product	Edition	Component	Description
			3) Although the Standalone Production license is free, product activation is required within 30 days. The maximum number of online user is unlimited.
	Clustered Production Edition	<ul style="list-style-type: none"> <li>PowerServer (PB Edition)</li> <li>Apeon Workspace</li> <li>PowerServer (PB Edition) Help</li> </ul>	<p>1) The (PB Edition) Clustered Production license supports the mobile app deployment only, but not the Web app deployment.</p> <p>2) The (PB Edition) Clustered Production license runs on the .NET IIS server only, but not on the J2EE server.</p> <p>3) The PowerServer clustering service is supported.</p> <p>4) Product activation is required within 30 days. The maximum number of online user is unlimited.</p>
Other PowerServer Editions	Developer Edition	<ul style="list-style-type: none"> <li>PowerServer Mobile &amp; PowerServer Web</li> <li>Apeon Workspace</li> <li>PowerServer Help</li> </ul>	<p>1) The maximum number of online users is 5.</p> <p>2) Product activation is required within 30 days.</p>
	Workgroup Edition	<ul style="list-style-type: none"> <li>PowerServer Mobile &amp; PowerServer Web</li> <li>Apeon Workspace</li> <li>PowerServer Help</li> </ul>	1) Product activation is required within 30 days.
	Enterprise Edition	<ul style="list-style-type: none"> <li>PowerServer Mobile &amp; PowerServer Web</li> <li>Apeon Workspace</li> <li>PowerServer Help</li> </ul>	<p>1) The PowerServer clustering service is provided.</p> <p>2) Product activation is required within 30 days.</p>

### 1.3.1 PowerServer Toolkit

PowerServer Toolkit is a plug-in to the PowerBuilder IDE installed to the developer's PC. It provides a set of tools that enable the mobile and Web application generation, maintenance, and upgrades within the PowerBuilder IDE. These tools are accessed via a toolbar in the PowerBuilder IDE, which automatically loads each time PowerBuilder is started.

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**Note**

In 2017 and later versions, **PowerServer Toolkit** is only available in **PowerServer (PB edition)** which can be installed from the **PowerBuilder CloudPro Edition** installation package. **PowerServer Toolkit 2020** can deploy apps to PowerServer 2020, 2019, and 2017 (including R2 & R3).

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### 1.3.2 PowerServer Mobile/Web

PowerServer Mobile/Web is a set of server components that is deployed to the application server. It provides the PowerServer applications with necessary run-time services such as data connectivity, DataWindow support, transaction management, and security.

PowerServer also includes AEM and PowerServer Web Component.

AEM is the management console for PowerServer Mobile/Web and the deployed applications. When you install PowerServer, AEM is automatically installed.

During the PowerServer Mobile/Web installation, the PowerServer Web Component is automatically installed, therefore, if you are using one IIS server as both the Web server and the application server, you will NOT need to run the PowerServer Web Component installation.

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**Note**

**PowerServer (PB Edition)** is activated differently from the other editions. For detailed instructions on activating **PowerServer (PB Edition)**, please follow the [Activating PowerServer \(PB Edition\)](#) section in the Apeon License User Guide.

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### 1.3.3 PowerServer Web Component

PowerServer Web Component is installed with PowerServer Web/Mobile automatically as aforementioned.

PowerServer Web Component resides in the Web server. It consists of the Web server redirector plug-in (that dispatches the user requests to the PowerServer) and a set of runtime libraries for the Web application (that supports the PowerBuilder-style UI in the Web browser).

If you use a third-party Web server (such as Apache or IIS) and/or physically separate the Web server and the PowerServer, for example, for load balancing purpose, you will need to install PowerServer Web Component to the Web server and configure the Web server with the redirector plug-in. For detailed instructions on configuring the Web server, refer to Web Server Configuration Guide.

### 1.3.4 Apeon Workspace (for Mobile only)

Apeon Workspace is installed on the mobile device to help simplify the distribution and installation of the native mobile app. It consists of a set of mobile client libraries and a graphical user interface. The mobile client libraries generate the mobile-style UI, support the PowerScript and UI logic, provide interfaces for calling the mobile SDK, and support accessing the client/offline database and running the offline mobile application. The

graphical user interface provides a friendly way for end users to install and run the mobile application from PowerServer conveniently, so developers do not need to register their mobile applications in the online application store, and the end users do not need to install them from there.

Appeon Workspace is a free native mobile application which can only be distributed internally or privately. It is also included as an invisible component when you package and compile the PowerServer mobile application as the iOS application archive (IPA) file or Android application package (APK) file.

### **1.3.5 PowerServer Help**

PowerServer Help provides easy access to all user documents. It saves time and conveniently places the help information, such as, the Appeon supported features, at your fingertips.

PowerServer Help is a Microsoft compiled HTML help (.chm) which can be installed and viewed on the Windows OS only. To view the PowerServer documentation on all OS, you can visit the [online help](#) at the Appeon web site.

## 2 Installation Requirements

### 2.1 Client requirements

#### 2.1.1 Software requirements

##### Requirements for the mobile device:

- Apple iOS 11, 12, or 13  
iOS devices: iPad Mini/Air, iPad Pro, and iPhone.
- Google Android 6.x (32-bit), 7.x, 8.x, 9.x, or 10.x  
Android devices that have been certified by PowerServer include the recent and popular Samsung phones and tablets, Google Nexus, and Google Pixel.

##### Requirements for the Web client PC:

- Microsoft Internet Explorer 11, Microsoft Edge (27 thru 44), Mozilla Firefox (63 thru 72), Google Chrome (50 thru 78), or Opera (45 thru 65)
- Windows 7, Windows 8.1, or Windows 10
- (Optional) Adobe Acrobat Reader 6.0 or above (for viewing printed PDF DataWindows or reports)

#### 2.1.2 Hardware requirements

##### Requirements for the Web client PC:

- Intel processor(s) running at 1.8 GHz or faster
- At least 2 GB Free RAM

### 2.2 PowerServer requirements

#### 2.2.1 Software requirements

- (Recommended) Windows Server 2019, 2016, or 2012 R2  
(Optional) Windows 10, Windows 8.1, or Windows 7
- Microsoft .NET Framework 4.x
- Microsoft IIS 7.5, 8.0, or 10

#### 2.2.2 Hardware requirements

- Intel processor(s) running at 1.8 GHz or faster
- At least 2 GB Free RAM (4 GB Free RAM recommended)

- 500 MB hard drive space (for PowerServer Mobile/Web installation)

### 2.2.3 (Optional) Web Server requirements

- (Recommended) Windows Server 2019, 2016, or 2012 R2  
(Optional) Windows 10, Windows 8.1, or Windows 7
- Microsoft IIS 7.5, 8.0, or 10
- 50 MB hard drive space (for PowerServer Web Component installation)

If you physically separate the Web server and the PowerServer, you will need to make the Web server work with the PowerServer by installing and configuring the Apeon plug-in. For detailed instructions, refer to Web Server Configuration Guide.

## 2.3 Database Server requirements

Apeon PowerServer 2020 can connect to any of the following database servers:

- SAP SQL Anywhere 16.0 or 17.0 with SQL Anywhere .NET Data Provider driver
- SAP Adaptive Server Enterprise (ASE) 12.5.x or 15.x with ASE native driver
- IBM DB2 UDB 9.7 with IBM DB2 native driver
- Informix 7.x, 8.x, 9.x, 10.x or 11.x with IBM Informix .NET Provider
- Microsoft SQL Server 2012, 2014, 2016, 2017, or 2019 with MS SQL Server native driver
- MySQL 5.5.x or 5.6.x with ADO.NET Data Provider driver
- Oracle 11g, 12c, 18c, or 19c with Oracle native driver
- PostgreSQL 9.2 or 12.x with PostgreSQL psqLODBC driver

Notes:

1. SAP IQ database is supported in the PowerServer for J2EE edition only, not in the PowerServer for .NET edition.
2. Usually, whether the database can be connected via a 32-bit driver and/or a 64-bit driver is determined by the database itself, so we recommend you make sure of this by checking the documents provided by the corresponding database vendor. If the database can be connected by both drivers, then you can decide which driver to install and use according to the PowerServer version: if you have installed a 32-bit PowerServer, then you should install and use the 32-bit driver, otherwise, install and use the 64-bit driver.

## 2.4 Offline synchronization requirements

### 2.4.1 Client Database requirements

Apeon PowerServer 2020 supports the following client/offline databases:

- UltraLite 17

Note that SAP SQL Anywhere provides no 64-bit UltraLite database for Android OS. To work around this limitation, you can set up the 32-bit Apeon Workspace and the 32-bit UltraLite database on the 64-bit Android OS.

- SQLite 3.x

### 2.4.2 Synchronization Server requirements

Apeon PowerServer 2020 supports the following offline synchronization server:

- MobiLink Server 17 (included in SQL Anywhere 17 components)

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#### Note

MobiLink can synchronize an UltraLite database, but cannot synchronize a SQLite database. To synchronize a SQLite database, you would need to develop your own synchronization solution.

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### 2.4.3 Server Database requirements

MobiLink Server can connect to the consolidated databases that MobiLink supports.

For detailed information, refer to **MobiLink consolidated database** in SQL Anywhere online help.

## 3 Installing Apeon PowerServer 2020

### 3.1 Overview

PowerServer 2020 (on .NET) consists of the following major components: PowerServer Mobile/Web, PowerServer Help, and Apeon Workspace.

**Table 3.1: PowerServer Components**

Component	Description	Installed on
PowerServer Toolkit	<p>A plug-in to the PowerBuilder IDE installed to the developer's PC.</p> <hr/> <p><b>Note</b></p> <p>In 2017 and later versions, <b>PowerServer Toolkit</b> can only be installed from the <b>PowerBuilder CloudPro Edition</b> installation package.</p>	PowerBuilder on Windows operating system.
PowerServer Mobile/Web	<p>A set of server components deployed to the application server providing runtime services for the application, such as data connectivity, DataWindows support, transaction management, and security.</p> <p>PowerServer Mobile/Web also includes AEM and PowerServer Web Component.</p>	IIS on Windows operating system.
PowerServer Help	The compiled HTML help of all Apeon user documents which saves time and conveniently places the help information at your fingertips.	Windows operating system.
Apeon Workspace (for Mobile only)	A native mobile application installed on the mobile device to simplify distributing, downloading, and running the PowerServer mobile applications.	Mobile Device.

### 3.2 Installation scenarios

#### 3.2.1 Overview

Apeon PowerServer 2020 works with n-tier architecture: different PowerServer Components should be installed to the computer(s) according to their roles in the network. In this section, some practical scenarios are described to demonstrate how Apeon PowerServer 2020 should be installed according to network architecture.

### 3.2.2 Developer PC

**Table 3.2: Developer PC installation**

Scenarios	Requirements	PowerServer Components
One physical machine, Computer 1, serves as developer PC, Web server, application server and database server	Computer 1: Microsoft Windows Server 2019, 2016, or 2012 R2 Microsoft .NET Framework Microsoft IIS PowerBuilder SAP SQL Anywhere SAP ASE, Oracle, Microsoft SQL Server, IBM DB2, Informix, MySQL, or PostgreSQL depending on the application database	Computer 1: PowerServer Toolkit PowerServer Mobile/Web

### 3.2.3 Remote PowerServer and Web server

**Table 3.3: Remote PowerServer and Web server installation**

Scenarios	Requirements	PowerServer Components
In this example, 2 computers are used:  Computer 1 serves as developer PC.	Computer 1: Microsoft Windows 10, 8.1, or 7 PowerBuilder SAP SQL Anywhere	Computer 1: PowerServer Toolkit
Computer 2 serves as Web server, application server and database server.	Computer 2: Microsoft Windows Server 2019, 2016, or 2012 R2 Microsoft .NET Framework Microsoft IIS SAP SQL Anywhere, SAP ASE, Oracle, Microsoft SQL Server, IBM DB2, Informix, MySQL, or PostgreSQL depending on the application database	Computer 2: PowerServer Mobile/Web

### 3.2.4 PowerServer Cluster

**Table 3.4: PowerServer cluster installation**

Scenarios	Requirements	PowerServer Components
In this example, N (N>=4)	Computer 1: Microsoft Windows 10, 8.1, or 7	Computer 1:



Scenarios	Requirements	PowerServer Components
computers are used: Computer 1 is used for developer PC.	PowerBuilder SAP SQL Anywhere	PowerServer Toolkit
Computer 2 is the database server.	Computer 2: SAP SQL Anywhere, SAP ASE, Oracle, Microsoft SQL Server, IBM DB2, Informix, MySQL, or PostgreSQL depending on the application database	Computer 2: None
Computer 3 is the Web server.	Computer 3: Microsoft IIS	Computer 3: PowerServer Web Component
Computers 4 to n are a group of PowerServers.	Computers 4 to n: Microsoft Windows Server 2019, 2016, or 2012 R2 Microsoft .NET Framework Microsoft IIS	Computers 4 to n: PowerServer Mobile/Web (After installing PowerServer Mobile/Web to each IIS, configure the PowerServer Mobile/Web as a cluster. Refer to <a href="#">Configuring PowerServer Cluster</a> for details)

### 3.3 Two installation methods

PowerServer 2020 provides two installation methods: "new installation" and "upgrade installation".

- If your computer has not installed any version of Appeon PowerServer, the setup program automatically takes the new installation method.
- If your computer has 2015 or an earlier version installed, you must uninstall the version, prepare the environment for Appeon PowerServer 2020 installation, and then use the setup program to install. The setup program takes the new installation method.
- If your computer has version 2016 installed, the setup program automatically takes the upgrade installation method.

## 3.4 Installing Apeon PowerServer

### 3.4.1 Starting the installation

Step 1: Double click the **Setup.exe** file in the installation package. The **Apeon PowerServer 2020 Setup** program starts. The entry page has several options to guide you through the various installation tasks.

- **View Server Settings:** Click this button to ensure that the application server settings are appropriate for the PowerServer Mobile/Web installation.
- **View Readme:** Click this button to read the key system requirements and installation information for the product.
- **View Product Manuals:** Click this button to read the user manuals for the product.
- **View Training Video:** Click this button to watch the video to learn how to install the product.
- **Visit Our Web Site:** Click this button to visit the Apeon web site.
- **Install:** Click this button to start installing the product.
- **Exit:** Click this button to exit the setup program.

Note: Make sure there is enough space on the C: drive for storing temporary files for installation. Otherwise an error message will pop up, saying "1607: Unable to install InstallShield Scripting Runtime".

Step 2: Click **Install**.

Step 3: Click **Next** on the introduction screen.

Step 4: Accept the terms in the license agreement page and click **Next**.

Step 5: According to the license you purchase, select the product edition and the product type: **PowerServer Web**, **PowerServer Mobile**, or **PowerServer Web & Mobile**, and then enter the product key which is shipped with the Apeon product. Click **Next**.

If you select the **Developer** edition (or the Trial edition), **PowerServer Web & Mobile** will be automatically selected so you can experience both the Web and Mobile deployments at no additional charge.

Step 6: Select the component(s) you want to install and click **Next**. The Setup program will install the selected component(s) in the order listed.

For the .NET IIS server, be sure to select **PowerServer for .NET**.

For the Trial or Developer edition, if more than one application server such as .NET IIS, WebLogic etc. is installed on the same computer, you can repeatedly run the setup program to install PowerServer to these application servers, for example, you can first run the setup program and select **PowerServer for .NET** to install PowerServer to the .NET IIS server, you can then run the setup program again and select **PowerServer for JBoss** to install PowerServer to the JBoss application server.

Refer to the following sections to complete the installation of each component.

- For PowerServer Mobile/Web installation instructions, refer to [PowerServer installation](#).
- For PowerServer Help installation instructions, refer to [PowerServer Help installation](#).
- For PowerServer Web Component installation instructions, refer to [PowerServer Web Component installation](#).

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### Note

If you are using one IIS as both the PowerServer and the Web server, then you will not need to install PowerServer Web Component, because it is included in PowerServer and will be installed automatically during PowerServer Mobile/Web installation.

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## 3.4.2 PowerServer Mobile/Web installation

### 3.4.2.1 Prerequisites

Before you install PowerServer Mobile/Web make sure

1. .NET Framework 4.x is successfully installed.
2. IIS 7.5, 8.0, or 10 is correctly installed with necessary components.

If you want to install **Apeon File Server** later, you will also need to install the components listed under **IIS 6 Management Compatibility**.

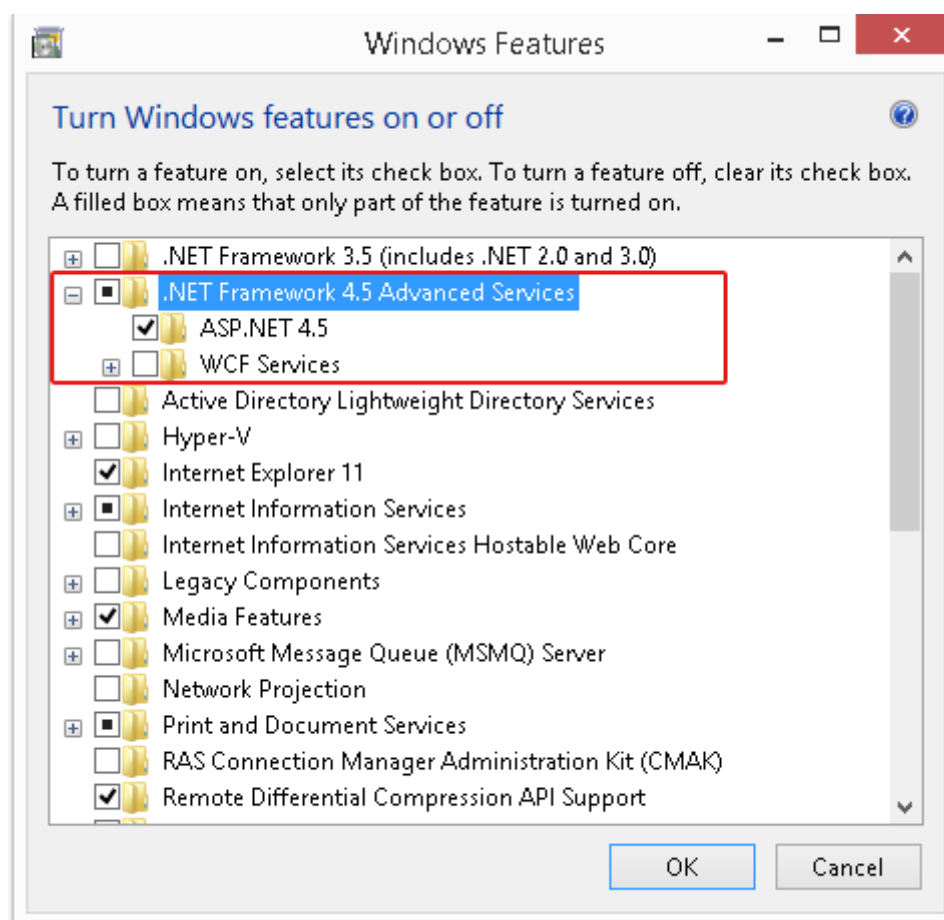
#### 3.4.2.1.1 Installing .NET Framework 4.x

If you are using one of the latest versions of the Windows or Windows Server operating system, the .NET Framework might already be installed on your computer. Specifically, the .NET Framework 3.5.1 is included with Windows 7, the .NET Framework 4.5 is included with Windows 8/8.1 and Windows Server 2012, and the .NET Framework 4.6 is included with Windows 10 and Windows Server 2016/2019. Apeon PowerServer 2020 requires **.NET Framework 4.x** to be installed.

- If you are using Windows 7 or earlier version, you need to manually install **.NET Framework 4.x**. You can download and install .NET Framework 4.x from <http://www.microsoft.com/en-us/download/details.aspx?id=17851>.
- If you are using Windows 8 or later, you need to enable the **.NET Framework 4.x** through Control Panel.

Take Windows 8 for example.

1. In Control Panel, click **Programs > Turn on or off Windows features**.
2. In the **Windows Features** dialog box, select the **.NET Framework 4.5 Advanced Services** checkbox, and then expand the list and select the item **ASP.NET 4.5**.

**Figure 3.1: .NET Framework 4.5 Advanced Services**

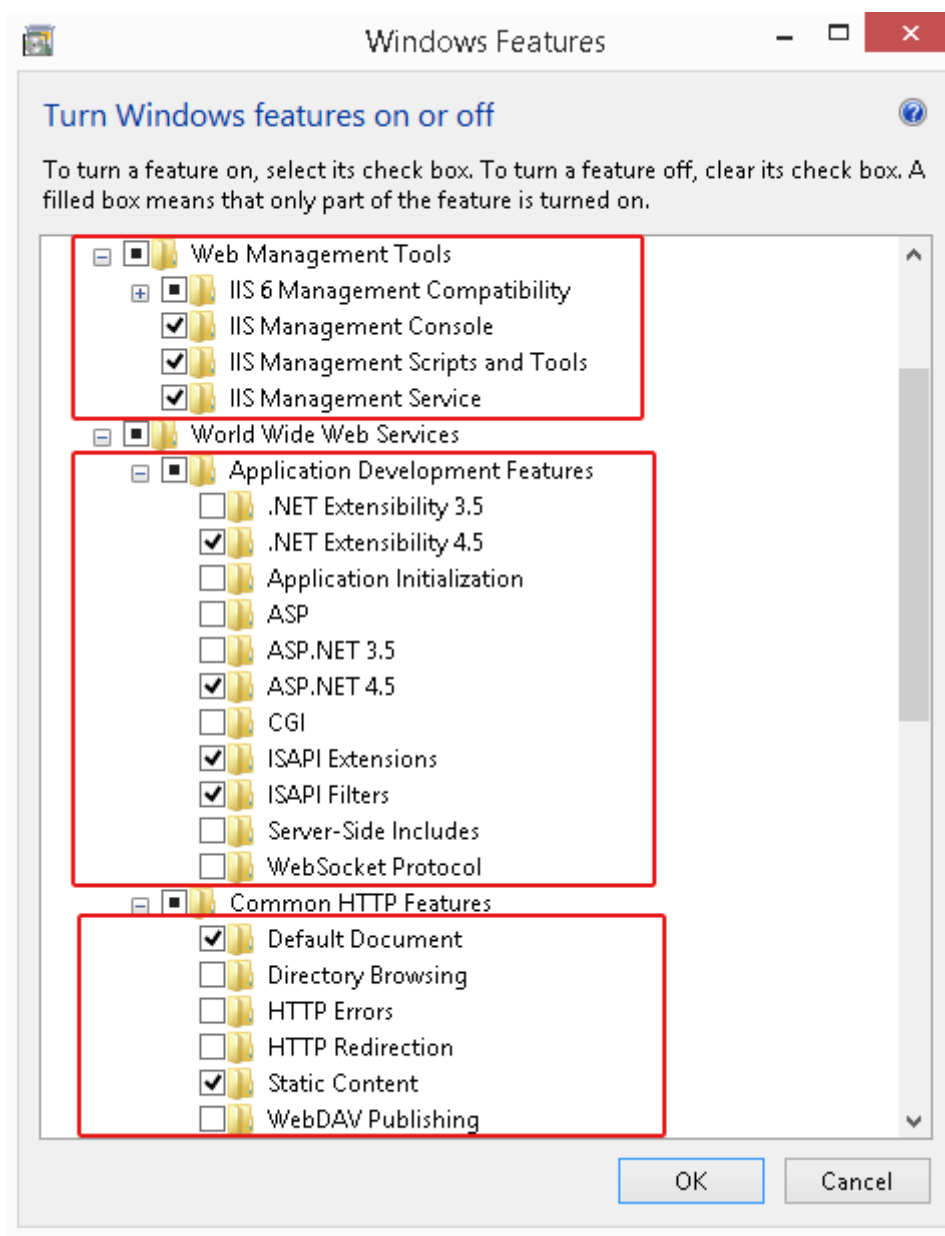
3. Click **OK** to let Windows finish the installation and reboot the system.

#### 3.4.2.1.2 Installing IIS 10 on Windows 10 or Windows Server 2019/2016

IIS 10 is included with Windows 10 or Windows Server 2016, but it is not installed in Windows by default. You need to manually install it. Follow the instructions below and make sure that the following highlighted features are installed; these features are not selected to install by default, you will need to manually select them during the IIS installation.

1. In Control Panel, click **Programs > Turn on or off Windows features**.
2. In the **Windows Features** dialog box, select the check box of **Internet Information Services**, then expand the list and select the items listed under **Application Development Features** and under **Common HTTP Features** as shown in the figure below. Click **OK**. These features of IIS provide runtime support for PowerServer.

Note: The aforementioned features are the necessary features for PowerServer. If you want to better manage your IIS or to install Apeon File Server, you should select the items listed under **IIS 6 Management Compatibility**.

**Figure 3.2: Windows features in Windows 10**

3. Click **OK** to let Windows finish the installation and reboot the system.

#### 3.4.2.1.3 Installing IIS 8.0 on Windows 8

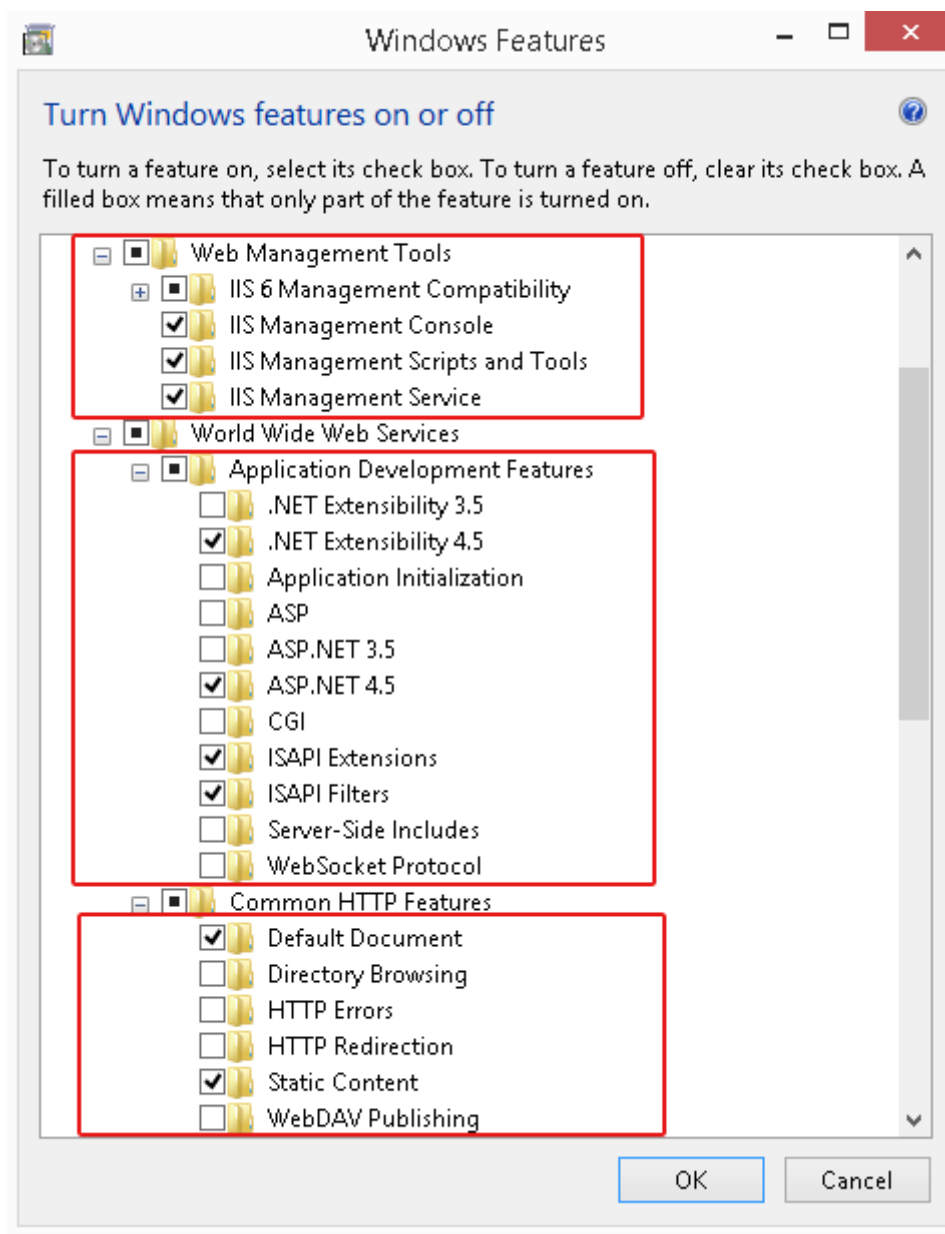
IIS 8.0 is included with Windows 8/8.1, but it is not installed on Windows 8/8.1 by default. You need to manually install it. Follow the instructions below and make sure that the following highlighted features are installed; these features are not selected to install by default, you will need to manually select them during the IIS installation.

1. In Control Panel, click **Programs > Turn on or off Windows features**.
2. In the **Windows Features** dialog box, select the check box of **Internet Information Services**, then expand the list and select the items listed under **Application Development**

**Features** and under **Common HTTP Features** as shown in the figure below. Click **OK**. These features of IIS provide runtime support for PowerServer.

Note: The aforementioned features are the necessary features for PowerServer. If you want to better manage your IIS or to install Apeon File Server, you should select the items listed under **IIS 6 Management Compatibility**.

**Figure 3.3: Windows features in Windows 8**



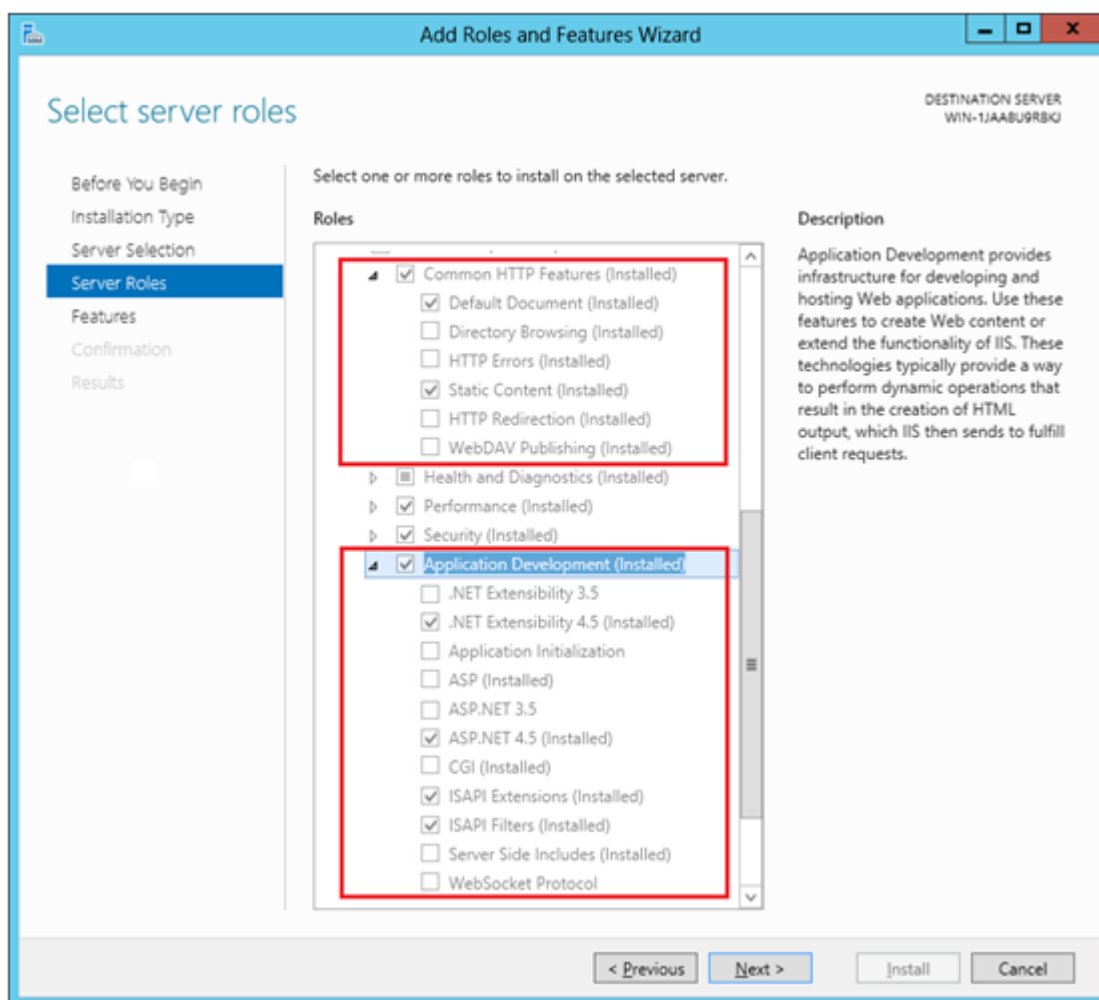
3. Click **OK** to let Windows finish the installation and reboot the system.

#### 3.4.2.1.4 Installing IIS 8.0 on Windows Server 2012

IIS 8.0 is included with Windows Server 2012, but it is not installed on Windows Server 2012 by default. You need to manually install it. Follow the instructions below and make sure that the following highlighted features are installed; these features are not selected to install by default, you will need to manually select them during the IIS installation.

1. In Control Panel, click **Turn on or off Windows features** to enter **Add Roles and Features Wizard**. Click **Next** until you enter the **Server Roles** page.
2. In the **Server Roles** page, select the check box of **Web Server (IIS) -> Web Server**, then expand the list and select the items under the **Application Development Features** and under **Common HTTP Features** (as shown in the red boxes in the figure below). Click **OK**. These features of IIS provide runtime support for PowerServer.

**Figure 3.4: Windows features in Windows 2012**



3. Click **OK** to let Windows finish the installation and reboot the system.

### 3.4.2.1.5 Installing IIS 7.5 on Windows 7

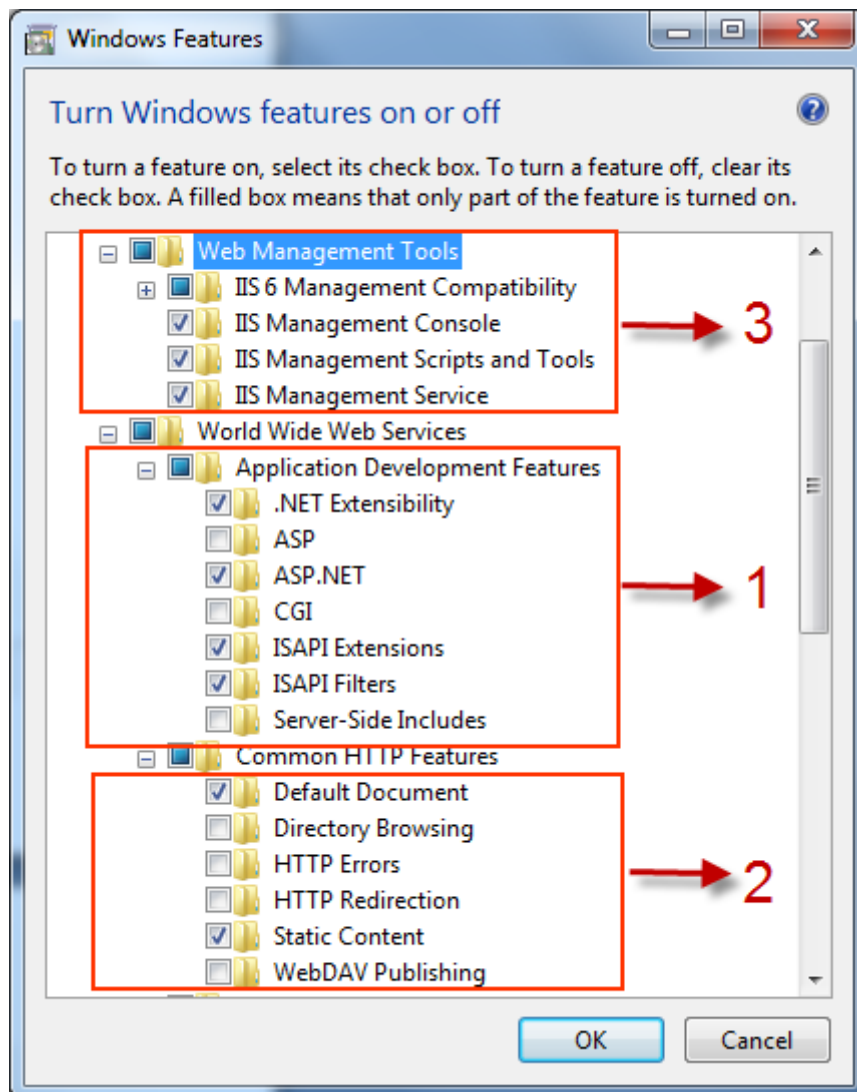
IIS 7.5 is included with Windows 7, but it is not installed on Windows 7 by default. You need to manually install it. Follow the instructions below and make sure that the following highlighted features are installed; these features are not selected to install by default, you will need to manually select them during the IIS installation.

1. Click **Start > Control Panel > Programs > Turn on or off Windows features**.
2. In the **Windows Features** dialog box, select the check box of **Internet Information Services**, then expand the list and select the items listed under **Application Development**

**Features** and under **Common HTTP Features** (as shown in the red boxes marked with "1" and "2" in the figure below). Click **OK**. These features of IIS provide runtime support for PowerServer.

Note: The features checked above are the necessary features for PowerServer. If you want to better manage your IIS or to install Apeon File Server, you can select the items listed under **IIS 6 Management Compatibility** (as shown in the red box marked with "3" in the figure below).

**Figure 3.5: Windows features**



3. Click **OK** to let Windows finish the installation and reboot the system.

### 3.4.2.2 Installation instructions

During the PowerServer installation, the setup program will automatically configure the .NET IIS server so PowerServer and IIS can work with each other. In very few cases, the automatic configuration may fail due to reasons such as environmental issues, user privileges, configuration changes etc., as a result PowerServer is not working properly. When this happens, you can go through the configurations in Section 1.2, "Install PowerServer to .NET IIS" in *PowerServer Troubleshooting Guide* to manually fix the problem.



Step 1: Launch the **Apeon PowerServer 2020 Setup** program and select to install **PowerServer for .NET** (see [Starting the installation](#)). Wait until PowerServer completes the preparation.

Step 2: Specify the IIS Web site where PowerServer will be installed and click **Next**.

PowerServer can be installed to an existing Web site or a new Web site. If you want to install PowerServer to a new Web site, create one by selecting the **Create a new Web Site** option and inputting the Web site description, TCP port, and home directory. The **Description**, **TCP Port**, and **Home Directory** of the new Web site cannot be the same as the existing Web site.

**Table 3.5: New IIS Web site**

Setting	Instructions
Description	Type a name to be used as the new Web site name.
TCP Port	Type a port number to be used as the new Web site port.
Home Directory	Click <b>Browse</b> to specify a root path of the new Web site.

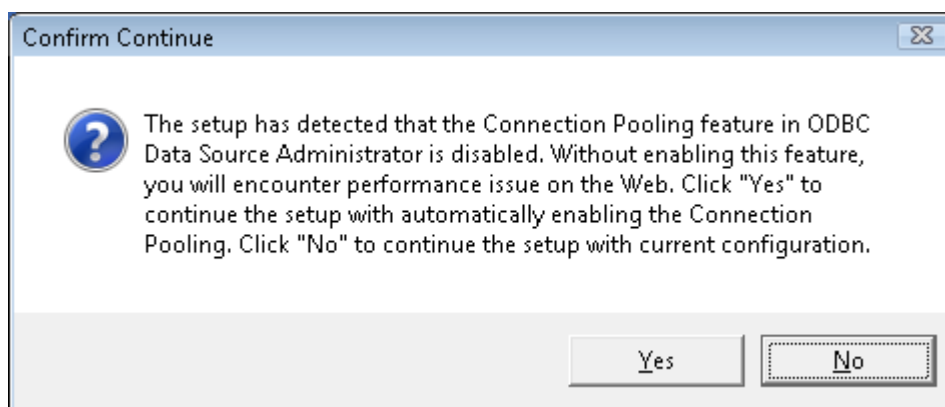
Step 3: Select whether to install the demo application and click **Next**.

Step 4: If you selected to install the demo application, specify the path for the SAP SQL Anywhere engine and click **Next**. Apeon demo application requires SQL Anywhere to run.

Notes: Depending on the version of PowerServer (32-bit or 64-bit), Setup lists all copies of SQL Anywhere engines of the corresponding version (32-bit or 64-bit) detected in your machine.

If you encounter the following message, we recommend you click **Yes** to allow the setup program to enable the connection pooling in ODBC Data Source Administrator, this eliminates the likelihood of having any performance issues at runtime.

**Figure 3.6: Detect connection pooling**



Step 5: Specify the AEM login user name and password.

Step 6: Modify the settings for ASP.NET when necessary.

Select the **Modify current ASP.NET settings** checkbox and then modify the attribute values; or click **Reset** to restore the default values. These values are used to determine the maximum number of concurrent users that PowerServer can support, therefore, setting proper values can help improve the PowerServer performance. For detailed instructions, refer to Section 2.5.1, “Microsoft IIS server” in *PowerServer Performance Tuning Guide*.

Step 7: Check the summary of settings. Click **Back** to change any unwanted settings or click **Next** to have Setup begin copying files.

At the click of the **Next** button, the setup program begins copying files to your computer.

Step 8: Wait until the installation is complete.

If you have selected to install PowerServer as well as the other components (such as PowerServer Web Component, PowerServer Help etc.), the setup program will install PowerServer first, and then install the other components before it displays the setup complete screen (as described in the next step).

Step 9: Click **Finish** to complete the installation of PowerServer.

During the PowerServer installation, the AEM (installed to %powerserver%\AEM) and the PowerServer Web Component (installed to %powerserver%\weblibrary\_ax) are automatically installed. %powerserver% indicates the PowerServer Mobile/Web installation directory, for example, C:\Inetpub\wwwroot\apeon.

### 3.4.3 PowerServer Help installation

Step 1: Launch the **Apeon PowerServer 2020 Setup** program and select to install **PowerServer Help** (see [Starting the installation](#)).

Step 2: Click **Next** to install PowerServer Help to the default location, or click **Browse** to select another location.

Step 3: Check the summary of settings. Click **Back** to change any unwanted settings or click **Next** and Setup will begin copying files.

Step 4: Wait until the installation is complete.

Step 5: Click **Finish** to exit when the installation is complete.

### 3.4.4 PowerServer Web Component installation (for remote Web servers only)

---

#### Note

If you set up an individual machine (separate from the application server) as the remote Web server, you will need to install the PowerServer Web Component. If not, you do not need to run the installation of the PowerServer Web Component separately since it is included in PowerServer.

---

#### 3.4.4.1 Prerequisites

- Install IIS 7.5, 8.0, or 10 on Windows Server 2019, 2016, or 2012 R2.
- Shut down the IIS service and any other Windows programs before beginning the installation process.

---

#### If Web Component is installed to multiple Web servers

PowerServer Web Component can be installed to multiple remote Web servers. Make sure all remote Web servers meet the above requirements and repeat the installation steps for the PowerServer Web Component on each Web server.

---

### 3.4.4.2 Installation instructions

Step 1: Launch the **Appeon PowerServer 2020 Setup** program and select to install **PowerServer Web Component** (see [Starting the installation](#)).

Step 2: Click **Browse** to select the Web root for the IIS Web server (for example, "C:\Inetpub\wwwroot") or use the default installation path.

If PowerServer Web Component is installed to the default path: "C:\Program Files\Appeon\PowerServer\WebComponent2020", you would need to manually copy it to the IIS Web root later in order to run the PowerServer application.

Step 3: Check the summary of settings. Click **Back** to change any unwanted settings or click **Next** and Setup will begin copying files.

Step 4: Click **Finish** when the installation is complete.

### 3.4.4.3 Configuring the Appeon redirector plug-in

To ensure the remote Web server works with PowerServer, install and configure the Appeon redirector plug-in for the Web server. Instructions for installing and configuring the Appeon plug-in are provided in Web Server Configuration Guide.

## 3.5 Upgrading Appeon PowerServer

### 3.5.1 Before you upgrade

If you have installed Appeon 2016 or a later version, you can upgrade to PowerServer 2020, but you cannot upgrade from Appeon 2015 or an earlier version. If you are using Appeon 2015 or an earlier version, uninstall it and then install PowerServer 2020.

Note that applications deployed with the old version and the demo applications must be redeployed with Appeon PowerServer 2020 after the upgrade.

Before upgrading to Appeon PowerServer 2020, upgrade the system environment as required in [Installation requirements](#).

In addition to the system environment requirements, you should meet the installation prerequisites listed in [PowerServer new installation](#) before upgrading each component.

### 3.5.2 Upgrading to PowerServer 2020

#### 3.5.2.1 Upgrading PowerServer Mobile/Web

Step 1: Launch the **Appeon PowerServer 2020 Setup** program and select to install **PowerServer for .NET** (see [Starting the installation](#)).

Step 2: Click the **OK** button in the **Confirm Upgrade** message box.

Step 3: Specify the settings for ASP.NET when necessary, and then click **Next**.

Select the **Modify current ASP.NET settings** checkbox and then modify the attribute values; or click **Reset** to restore the default values. These values are used to determine the maximum number of concurrent users that PowerServer can support, therefore, setting proper values can help improve the PowerServer performance. For detailed instructions, refer to Section 2.5.1, "Microsoft IIS server" in *PowerServer Performance Tuning Guide*.

When the **Next** button is clicked, a message box opens indicating that the upgrade is preparing files.

Before the upgrade process starts, if the setup program detects that IIS server is running, a warning message will pop up reminding you to stop it.

The upgrade process uninstalls the old version of PowerServer (including PowerServer instances if any), backs up configurations and begins the installation of **PowerServer** (including PowerServer instances if any) based on the backup information. This will take several minutes.

Step 4: When setup is complete, click **Finish** to complete the installation of PowerServer.

### 3.5.2.2 Upgrading PowerServer Web Component

Step 1: Launch the **Appeon PowerServer 2020 Setup** program and select to install **PowerServer Web Component** (see [Starting the installation](#)).

Step 2: Click the **Yes** button in the **Confirm Upgrade** message box.

Once you click the **Yes** button, a message box opens indicating that Setup is preparing files.

The upgrade process uninstalls the old version of PowerServer Web Component then begins the installation of **PowerServer Web Component**. This will take several minutes.

Step 3: Click the **Finish** button when the upgrade is complete.

## 3.5.3 Upgrade configuration settings manually

After the upgrade, most configurations made in the old version are retained and will continue to work in PowerServer 2020. However, because the configuration settings of PowerServer 2020 have been adjusted, it is recommended that you review the configuration settings in AEM to become familiar with the new settings and make sure the old ones are not lost or mis-configured.

After verifying all settings, PowerServer applications deployed with the old version and Appeon Demos must be redeployed in PowerServer 2020.

Note: If the application uses Appeon Workarounds PBL, you must use the new Appeon Workarounds PBL to replace those of the old version.

### 3.5.3.1 Settings lost in upgrade (for Appeon Demos)

- The Data Source settings in AEM.

You need to manually create the following data sources: **appeonsample** and **appeonsample2**. The **appeonsample** data source connects to **appeonsampleforserver** SQL Anywhere ODBC data source, and the **appeonsample2** data source connects to **appeonsample2forserver** SQL Anywhere ODBC data source.

- The transaction object settings in AEM.

You need to manually map transaction object(s) to data source, mainly, map **sqlca** to **appeonsample**. For **appeon\_code\_examples**, you also need to map **its\_sql** to **appeonsample** and **its\_sqt** to **appeonsample2**.

## 3.6 Troubleshoot Appeon installation problems

Chapter 1, *Troubleshooting Appeon Install* in *PowerServer Troubleshooting Guide* provides solutions to some common problems with installing Appeon PowerServer. If you could not find a solution for your problem, it could be because it is a new problem or an intricate problem that happens only under specific circumstance or environment. In both cases, it is highly recommended that you follow steps below to generate and send the log file to us for investigation.

Step 1: Go to the **Appeon** folder in the installation package, open the **Product.ini** file in the text editor, find the **RecordDllLog** parameter in this file and set the value to **1** (this will enable the logging functionality), by default the value is 0 (which disables logging).

For example:

```
[DllLog]
RecordDllLog=1
```

Step 2: Run the installation package and reproduce the installation error.

Step 3: Go to ...\`System32\AppeonInstallLog` (or ...\`SystemWOW64\AppeonInstallLog` in 64-bit machine) and find the log files there.

Each PowerServer component will have a separate log file, for example, `AppeonADT[xxxx].txt` for PowerServer Toolkit, `AppeonDNS[xxxx].txt` for PowerServer.

## 4 Configuring PowerServer Cluster

Appeon PowerServer provides its own tools and plug-ins to configure a PowerServer cluster and implement the load balancing and failover functionalities. A PowerServer cluster is essentially a group of IIS servers, each with PowerServer and Appeon plug-in installed.

Following are high level steps for configuring a PowerServer cluster. For detailed instructions, please refer to Chapter 5, *Tutorial 5: Configure PowerServer Cluster* in *PowerServer Mobile Tutorials*. The instructions are exactly the same for PowerServer Web and PowerServer Mobile.

1. Install **PowerServer** to multiple IIS servers.
2. Create **PowerServer cluster** in AEM.
3. Configure the **Web server** for the PowerServer cluster.
4. Install a PowerServer application to the PowerServer cluster and Web server(s).

## 5 Post-Installation Configuration Tasks

### 5.1 Overview

The previous chapters provide instructions on how to set up PowerServer system architecture, including installing Apeon PowerServer components, as well as configuring PowerServer cluster. Once the Apeon system is set up and before you start deploying applications, the post-installation configuration tasks listed in the following table will help ensure that the deployed applications run as desired. Post-installation configuration tasks refer to configurations required for Apeon system architecture that affect the running of all applications but do not include configuration tasks performed in PowerServer Toolkit and AEM for specific applications.

**Table 5.1: Post-installation tasks**

Task	Description	Detailed Instructions Given in...
Configuration for the Web client PC	The IE security settings and Windows login user privileges may prevent downloading the Apeon Xcelerator plug-in for the Web application.	<a href="#">Configuration for client machine</a>
System language setting	Configuration required for the Web client, PowerServer and database server.  The operating system language settings can affect the characters that are displayed in the Web application.	<a href="#">System language settings</a>
Configuration for supporting dynamic DataWindows	Configuration required for database server.  Configuration at the database server is required for support of dynamic DataWindows.	Section 10.5, “Dynamic DataWindow” in <i>Supported PB Features for PowerServer Web</i> or <i>Supported PB Features for PowerServer Mobile</i> .
Configuration for fixing an ASE issue	Apeon PowerServer provides several SQL files for you modifying the chain modes of stored procedures in ASE database to avoid the following error:  "Select error: Stored procedure... may be run only in unchained transaction mode"	Section 4.6.1, “ASE Chained mode issue” in <i>PowerServer Troubleshooting Guide</i>

### 5.2 Configuration for Web client PC

Running PowerServer Web application in the Web browser on the client machine is dependent on the Apeon Xcelerator plug-in. To ensure (only for the first time) the Apeon

Xcelerator plug-in can be downloaded and installed automatically when the application is run, the following configuration on the client machine is required.

For more information about the Apeon Xcelerator plug-in and the manual installation method, refer to Section 4.1.2, “Installing Apeon Xcelerator plug-in” in *Supported PB Features for PowerServer Web*.

---

**Note**

To run an IWA (Installable Web App) on the client machine, refer to Section 7.3.3, “Installing IWA apps” in *PowerServer Toolkit User Guide*.

---

## 5.2.1 Verifying Web browser settings

There are a few settings in the Web browser that may affect the running of the PowerServer Web application, such as the JavaScript and the plug-in settings. By default, these settings are enabled (appropriate for running the Web application) in Edge/Chrome/Firefox/Opera except Internet Explorer. Normally you would not need to go through the following section if you use Edge/Chrome/Firefox/Opera, unless you encounter problems when running the Web application. However, if you use Internet Explorer, you are recommended to configure Internet Explorer according to the following section.

### 5.2.1.1 Verifying Chrome/Firefox/Opera settings

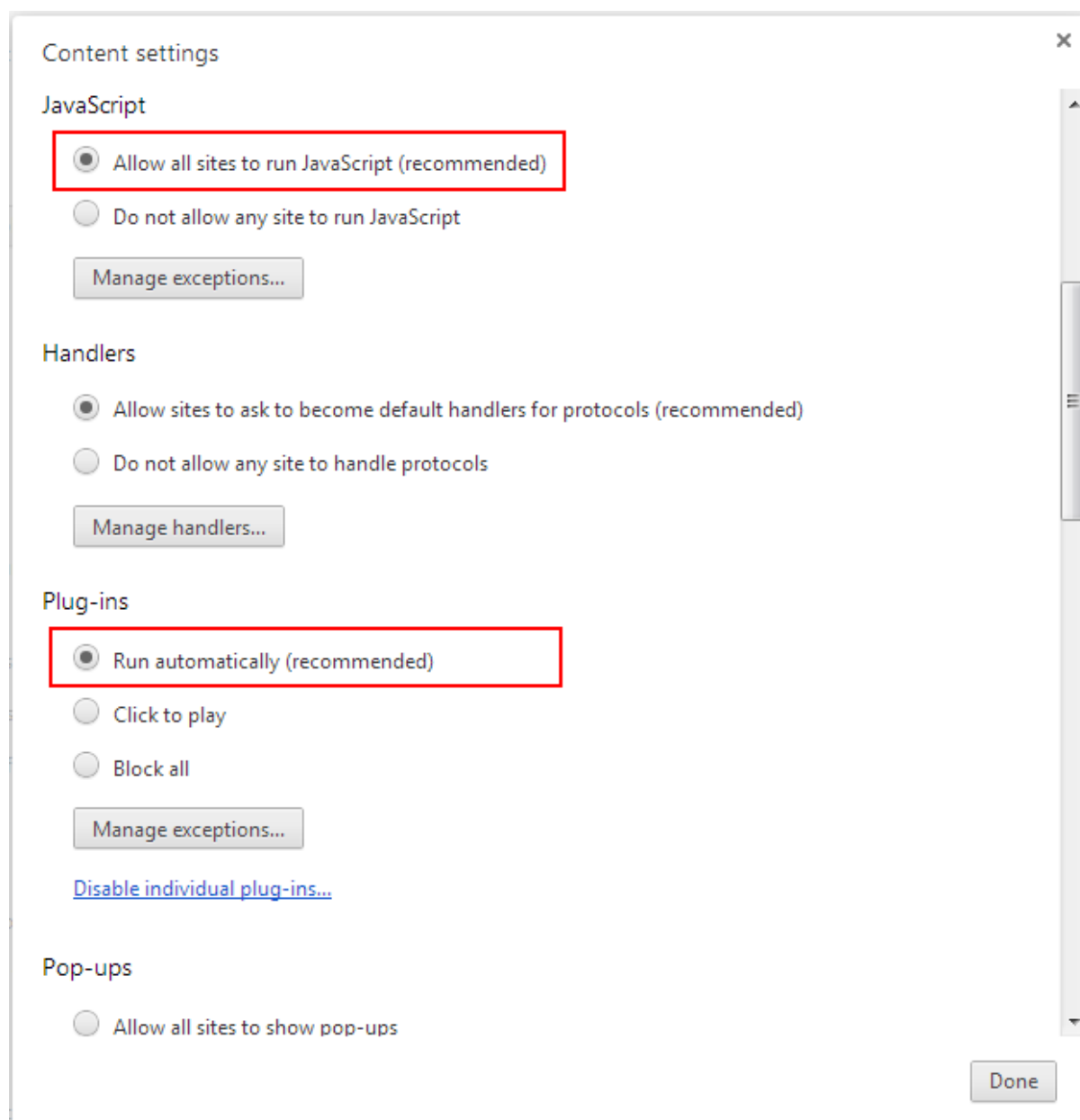
If you use Chrome/Firefox/Opera as the Web browser, you should be able to directly run the PowerServer Web application in it without any problems, with the default settings of these browsers, however, if you encounter runtime problems, or if you have changed the default settings before, you are recommended to double check that the following two settings are enabled in the browser:

- Enable JavaScript
- Enable plug-in

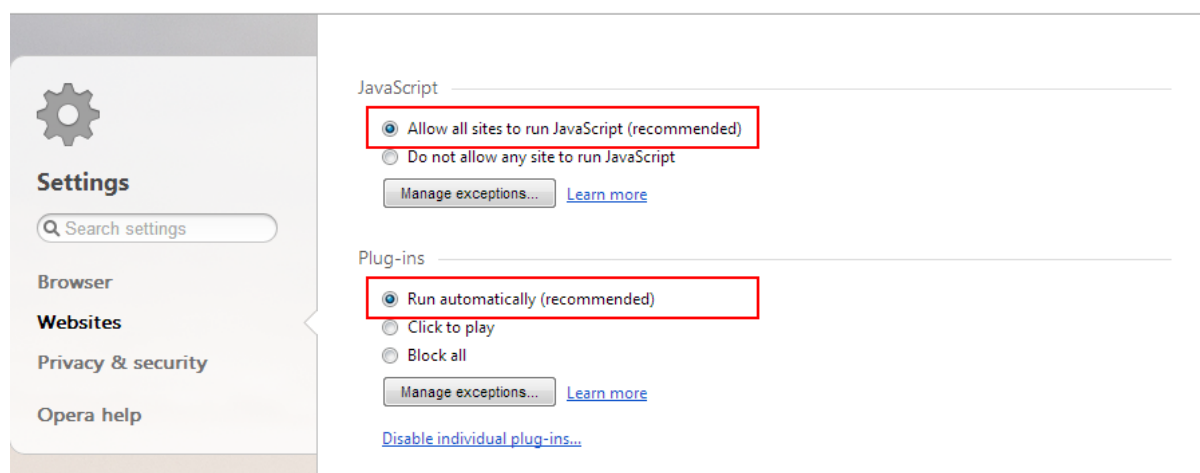
For Firefox, these two settings are automatically enabled and cannot be changed manually. Therefore, you normally need not to verify the settings in Firefox.

For Chrome, go to **Settings**, then click the **Show advanced settings** link, then click the **Content Settings** button under **Privacy**, and then verify the settings are enabled. If you have to disable these two settings for some reason, then make sure you add the URL of the PowerServer Web application to the exception list.



**Figure 5.1: Settings in Chrome**

For Opera, go to **Settings**, then select **Websites**, and then verify the settings are enabled. If you have to disable these two settings for some reason, then make sure you add the URL of the PowerServer Web application to the exception list.

**Figure 5.2: Settings in Opera**

### 5.2.1.2 Configuring IE settings

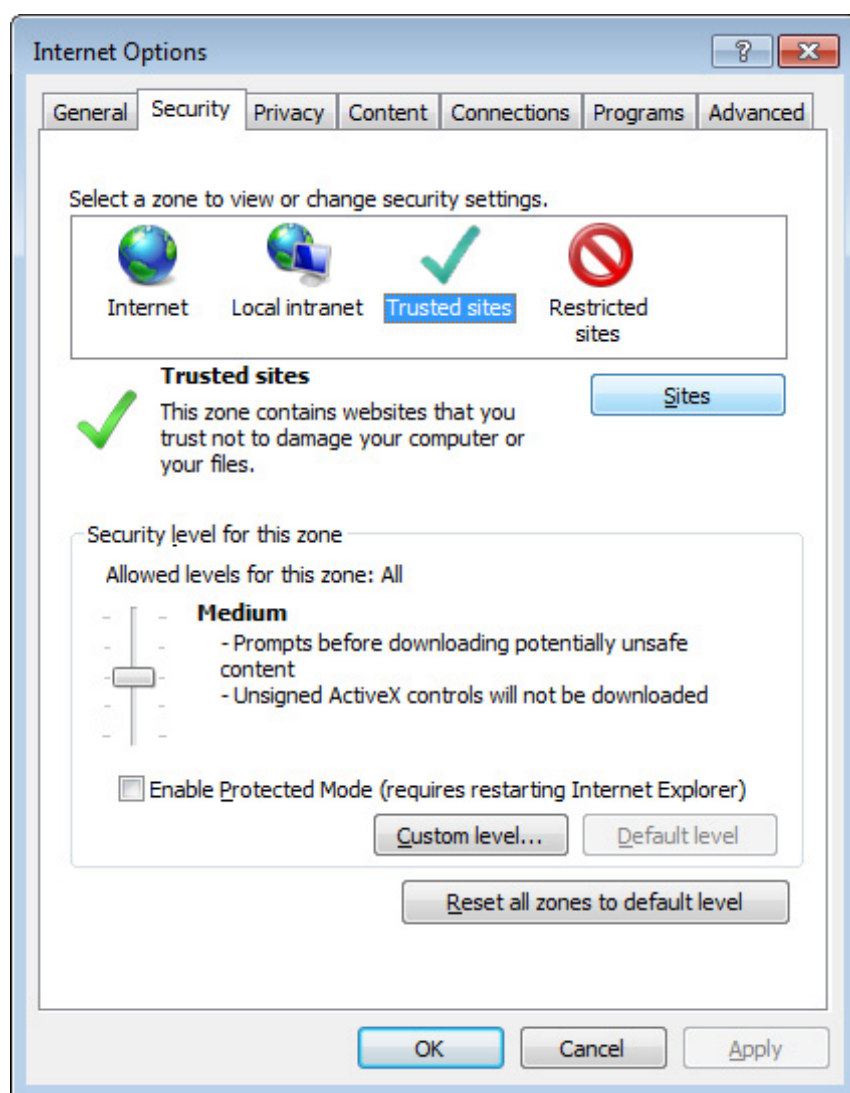
If you use Internet Explorer, we recommend you add the URL of the deployed application to the **Trusted Sites** zone in Internet Explorer, because the default security settings of this zone are appropriate for downloading and installing the Appeon Xcelerator plug-in. However, if you do not want to add the URL to the Trusted Sites zone, you will need to make sure the security settings (listed in Step 4 below) are enabled for the appropriate zone. The following are detailed steps to add the URL to the Trusted Sites zone.

Step 1: In Internet Explorer, on the **Tools** menu, click **Internet Options**.

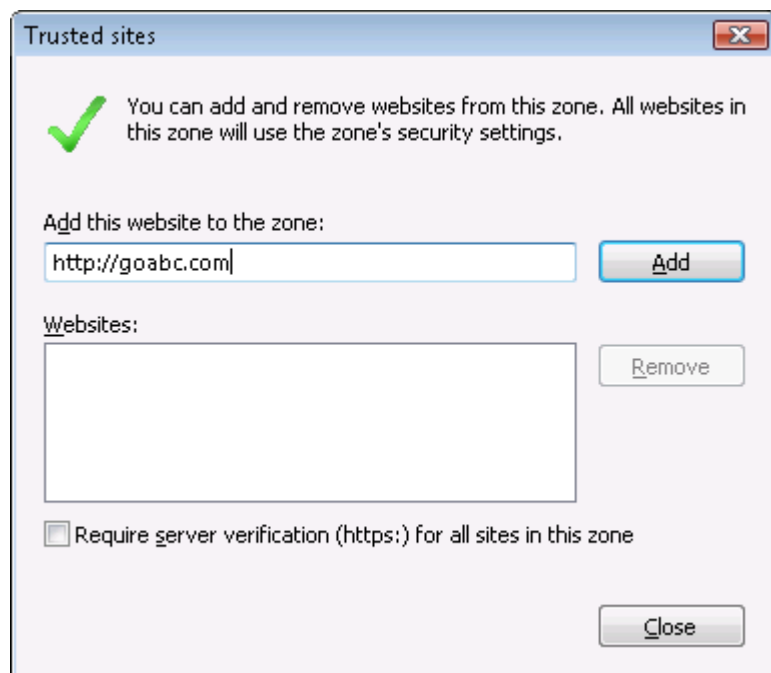
Step 2: In the Internet Options window, select the **Security** tab. Then select the **Trusted sites** Web content zone, and click the **Sites** button.

**Note:** **Enable Protected Mode** on the **Security** tab should not be selected (it is not selected by default). If there is any reason this option must be turned on, please make sure to follow the instructions in Section 4.1.5, "'Failed to get resource from PowerServer' error" in *PowerServer Troubleshooting Guide* to resolve the issue caused by this option.

For IE 11, you should also make sure both "**Enable Enhanced Protected Mode**" and "**Enable 64-bit processes for Enhanced Protected Mode**" (the latter is available in Windows 8.1 only) are unchecked in the **Advanced** tab.

**Figure 5.3: IE security settings**

Step 3: In the Trusted sites window, input the URL of the deployed application to the "Add this website to the zone" box. Uncheck the checkbox of "Require server verification (https:)" for all sites in this zone". Click **Add** then click **Close** to return to the Internet Options window.

**Figure 5.4: Trusted sites**

Step 4: Click **OK** to save the settings and close IE.

## 5.2.2 Logging in as administrator or normal user

No special privilege is required to download and install the Apeon Xcelerator plug-in, no matter you use Edge, Chrome, Firefox, Opera, or Internet Explorer, which means, you can log into the Windows OS with any user.

Note when running the PowerServer Web application for the first time, the Web browser would prompt you to run the Apeon cross-browser plug-in with two options: "**only this time**" or "**always run for this site**". It is highly recommended that you select the "**always run for this site**" option, especially for Chrome, because the application will fail to run in Chrome if you select "**only this time**".

## 5.3 System language settings

Sometimes the Windows language settings can affect the characters displayed in the PowerServer Web application. To avoid any such display issues, verify that:

- The language of the data in the database used by the application matches the Windows language settings on the machine where PowerServer is installed.
- The language of the data in the database used by the application matches the Windows language settings on each client machine where the Web application will be viewed.
- The language of the data in the database used by the PowerServer-deployed Web application matches Windows language settings on the machine where PowerServer Toolkit is installed.

To set the language settings in Windows:

Step 1: Open Windows Start Menu and select Settings | Control Panel.

Step 2: Double-click **Regional Options**.

Step 3: Select the appropriate language from the **Your locale** DropDownListBox.

Step 4: Click the **Set Default** button. The Select System Local window displays.

Step 5: Select the appropriate locale. Verify that it is the same as that selected in the **Your locale** list box in Regional Options.

Step 6: Click **OK** to return to the Regional Options window.

Step 7: Verify that the language selected in the **Your locale** list box and the language checked as default in **Language settings for the system** settings are the same. The language can be from different regions as long as it is the same language.

Step 8: Click **Apply** and **OK** in the Regional Options window to accept the settings.

## 6 Uninstalling Apeon PowerServer 2020

### 6.1 Overview

To uninstall Apeon PowerServer 2020, uninstall each of its components separately. The uninstall process reverses the actions performed by the PowerServer setup program. Uninstallation does not delete any user created files in PowerServer, such as application files generated while deploying the demo applications or your own application to PowerServer. Delete these files manually from the Web root.

Do not try to reverse installation steps or uninstall Apeon PowerServer by deleting files manually or changing your Registry. This can create serious problems with your system in general and new Apeon releases in particular.

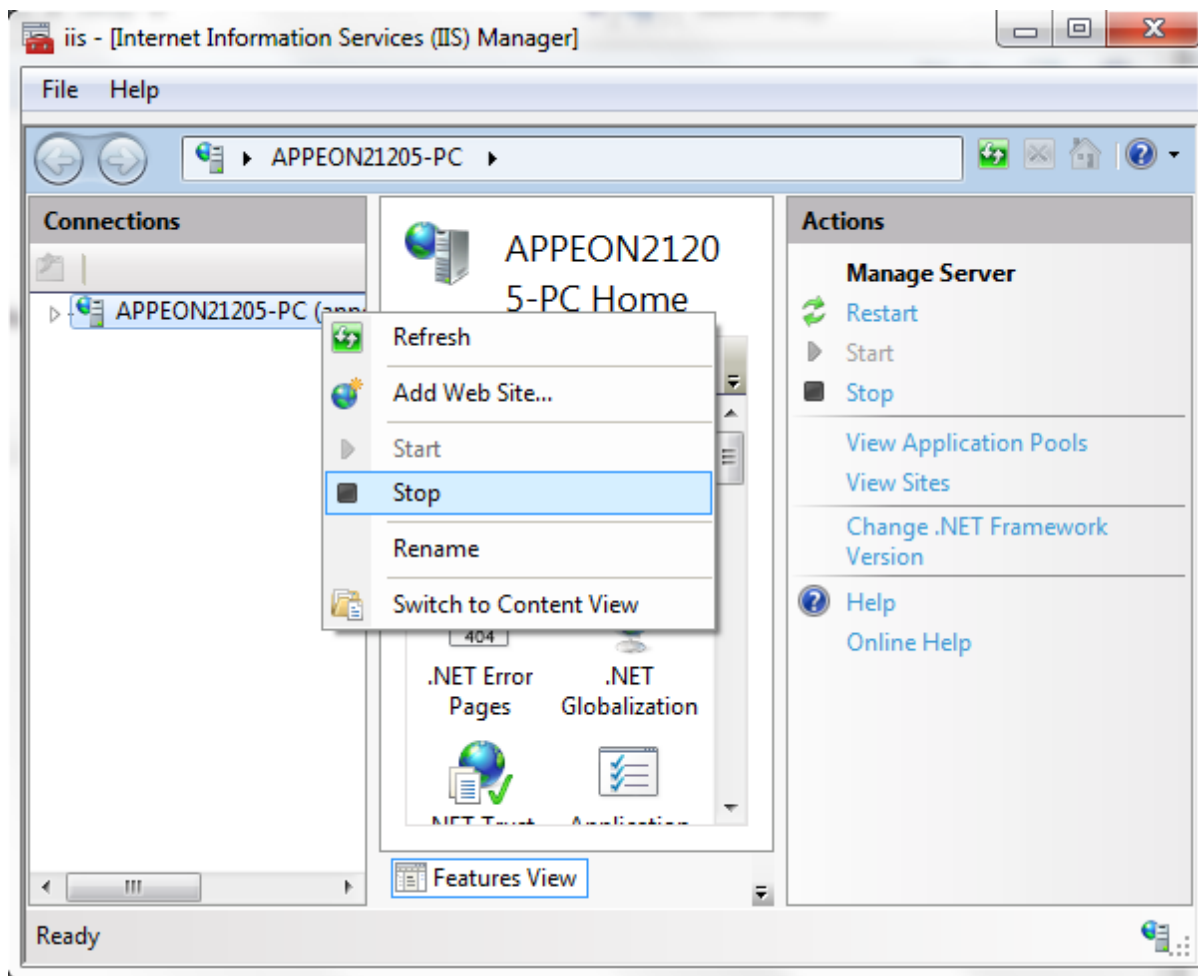
### 6.2 Uninstalling PowerServer Mobile/Web

Step 1: Shut down all Windows programs.

Step 2: Stop IIS server.

To stop the server in the IIS Manager, right click the **top** node (not the website node) in the left tree and select **Stop** from the popup menu. This will stop the entire IIS server, as shown in the following figure.

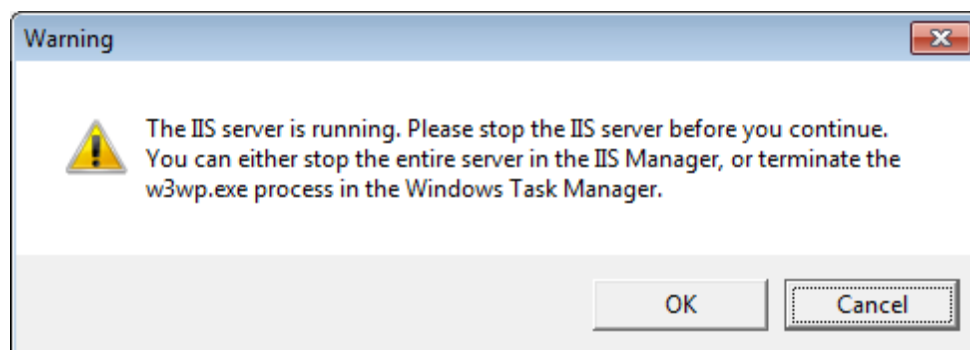
**Figure 6.1: Stop the server in IIS Manager**



Step 3: Select Windows **Start | Control Panel**; under **Programs**, click **Uninstall a program**; select **Apeon PowerServer 2020 for .NET** and click **Uninstall** to begin the uninstall process.

Before uninstall process starts, if the setup program detects that the IIS server is running, a warning message will pop up reminding you to terminate it, as shown in the following figure.

**Figure 6.2: Stop IIS server**



Step 4: Click **Next** and then **OK** to confirm the removal of PowerServer.

Step 5: Click **Finish** to exit when uninstall is complete.

## 6.3 Uninstalling PowerServer Web Component (for remote Web servers only)

Step 1: Shut down all Windows programs as well as the IIS service.

Step 2: Select Windows **Start | Control Panel**; under **Programs**, click **Uninstall a program**; select **Apeon PowerServer Web Component 2020** and click **Uninstall** to begin the uninstall process.

Step 3: Click **Next** and then **OK** to confirm the removal of PowerServer Web Component.

Step 4: Click **Finish** when the uninstallation is complete.

### 6.3.1 Uninstalling Web Component if multiple remote Web servers are involved

Repeat the Web Component uninstall steps for each remote Web server.

## 6.4 Uninstalling PowerServer Help

Step 1: Select Windows **Start | Control Panel**; under **Programs**, click **Uninstall a program**; select **Apeon PowerServer Help 2020** and click **Uninstall** to begin the uninstall process.

Step 2: Click **Next** and then **OK** to confirm the removal of PowerServer Help.

Step 3: Click **Finish** when uninstall is complete.

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