# Project Cost Web Suite Install Guide (Angular)

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# Table of Contents

1. 2.	Introduction Prerequisite Software and Settings 2.1. Microsoft .NET Framework 4.7+	<b>2</b> <b>3</b>
	2.2. Internet Information Services (IIS)	3
	2.3. IIS URL Rewrite Module	4
	2.4. Microsoft .NET Core Hosting Bundle 2.2.2+	5
	2.5. SQL Server services and protocol setup	6
	2.6. Active Directory Setup for Single Sign-On	8
3.	Download Software	11
4.	New Install of Project Cost Web Suite	12
	4.1. Create Application Pools	12
	4.2. Install	14
	4.2.1. Option 1: Install as a stand-alone site	14
	4.2.2. Option 2: Install as a child of another site	18
5.	Upgrade Project Cost Web Suite	23
	5.1. Option 1: Upgrade stand-alone site	23
_	5.2. Option 2: Upgrade child of another site	26
6.	Setup and Configure Project Cost Web Suite	30
	6.1. SQL Settings	31
	6.2. Logo	32
		32 24
-	6.4. IIS INTO	34
7.	Appendix	30
	7.1. DIUCKEU UUWI IIUdus	30 72
	1.2. Stanuaru Diuckeu Allachiment Types	57

# **1. Introduction**

The Angular version of the Project Cost Web Suite is designed to work with Project Cost version 16.3 and newer.

Angular is a web application framework developed by Google for creating modern web apps. A web app developed using the Angular framework will run in any modern browser, including Google Chrome, Microsoft Edge, Mozilla Firefox, Safari, etc.

Note: Microsoft Internet Explorer (IE) is not supported.

# 2. Prerequisite Software and Settings

Before you can install the Project Cost Web Suite software, you must complete the installation of Microsoft Dynamics GP and Project Cost.

Project Cost is dependent on users having specific features setup in Dynamics GP. Please review the PC Basic Setup Requirements for Project Cost that is included with the Project Cost software.

# 2.1. Microsoft .NET Framework 4.7+

Version 4.7 or newer of the Microsoft .NET Framework is required on the server that is hosting the Project Cost Web Suite (Angular).

Download this from Microsoft's download site.

https://dotnet.microsoft.com/en-us/download/dotnet

Each version of Windows has different installation and setup procedures – You should work with you IT staff for the best options to be selected for your business operations.

## 2.2. Internet Information Services (IIS)

Internet Information Services (IIS) is required on the server that is hosting the Project Cost Web Suite (Angular).

Each version of Windows has different installation and setup procedures – You should work with you IT staff for the best options to be selected for your business operations.

Below are the IIS Roles and Role Services options available to activate in IIS. We have listed the options needed by the Project Cost Web Suite (Angular). Additional instructions and resources are available to assist in configuration and deployment of IIS for Project Cost - contact your GP partner or our office for assistance.

#### **Server Roles**

2	Add Roles and Features Wizard	_ <b>D</b> X
Select server roles	Select one or more roles to install on the selected server.	
Installation Type	Roles	Description
Server Selection		Web Server (IIS) provides a reliable,
Server Roles	Volume Activation Services	manageable, and scalable Web
Features	Web Server (21 of 34 installed)	application infrastructure.
Confirmation	Common HTTP Features (4 of 6 installed)	
Results	<ul> <li>Health and Diagnostics (4 of 6 installed)</li> <li>Performance (1 of 2 installed)</li> </ul>	
	Security (4 of 9 installed)	
	Image: Application Development (8 of 11 installed)     Image: FTP Server	
	▲ Management Tools (5 of 7 installed)	
	✓ IIS Management Console (Installed)	
	IIS 6 Management Compatibility (2 of 4 inst	
	<ul> <li>IIS Management Scripts and Tools (Installed)</li> <li>Management Service (Installed)</li> </ul>	
	V	
	< Previous Next >	Instali Cancel

<b>Required Server Roles</b>	Notes
Web Server (IIS) / Web Server / Con	nmon HTTP Features
Default Document HTTP Errors Static Content	
Web Server (IIS) / Web Server / Hea	alth and Diagnostics
Tracing	
Web Server (IIS) / Web Server / Sec	urity
Request Filtering Windows Authentication	If using Single Sign-On
Web Server (IIS) / Web Server / App	olication Development
.NET Extensibility 4.x ASP.NET 4.x ISAPI Extensions ISAPI Filters	
Web Server (IIS) / Management Too	ols
IIS Management Console	

#### **Server Features**



# 2.3. IIS URL Rewrite Module

The Project Cost Web Suite (Angular) requires installation of URL Rewrite module in Internet Information Services (IIS).

PEV21 >       PEV21 >         File View Help       Connections         Image: Connections       Image: Connection Levels       Image: Conne	📬 Internet Information Services (IIS	) Manager	– 🗆 X
File View Help     Connections     DEV21     PET     Authorizat     Compression     DEV21     Providers     Session State     Support     Controls     Providers     Session State     Support     Configurat     Providers     Session State     Support     Configurat     Providers     Session State     Support     Vet     Authorizat     Configurat     Providers        Providers           Providers           Providers <th>(← → ● ■ → DEV21 →</th> <th></th> <th>📅 🖂 🚯 🗸</th>	(← → ● ■ → DEV21 →		📅 🖂 🚯 🗸
Connections       Image Server         Image Server       Image Server	File View Help		
E Features View R Content View	File View Help Connections	Piter:       Image: Second secon	Actions         Manage Server         Restant         Start         Stop         View Application Pools         View Sites         Change.INET Framework         Version         Get New Web Platform         Components         W Help
		E Features View Content View	

If you do not see URL Rewrite in the Internet Information Services (IIS) Manager, install from:

https://www.iis.net/downloads/microsoft/url-rewrite

# 2.4. Microsoft .NET Core Hosting Bundle 2.2.2+

The Project Cost Web Suite requires the .NET Core Hosting Bundle 2.2.2 or greater but less than 3.0.0 installed on the IIS server.

You can check if the .NET Core is installed on the IIS server by looking for the programs in the Programs and Features window from Control Panel.

ō	Programs and Features							×
÷	- 🔿 🔻 🛧 🖬 > Control P	anel  → All Control Panel Items  → Programs and Features			✓ <sup>™</sup> Sear	ch Programs and	l Features	P
	Control Panel Home	Uninstall or change a program						
	View installed updates	To uninstall a program, select it from the list and then clic	k Uninstall, Change, or Repair.					
•	Turn Windows features on or							
	<ul> <li>Programs and Features</li> <li>→ ~ ↑</li></ul>	Organize 🔻						?
	Install a program from the network	Name	Publisher	Installed On	Size	Version		^
		Intel® PROSet/Wireless Software	Intel Corporation	8/2/2018	469 MB	19.20.0		
		🚺 Intel® Security Assist	Intel Corporation	3/29/2016	2.36 MB	1.0.0.532		
		🕝 Lenovo QuickOptimizer	Lenovo	3/29/2016	23.2 MB	1.0.019.00		
		🛞 Lenovo Solution Center	Lenovo	6/22/2016	207 MB	3.3.003.00		
		劇Microsoft .NET Core 2.2.2 - Windows Server Hosting	Microsoft Corporation	2/18/2019	291 MB	2.2.2.0		
		B Microsoft .NET Core Runtime - 2.2.2 (x64)	Microsoft Corporation	2/18/2019	90.4 MB	2.2.2.27318		
		B Microsoft .NET Core Runtime - 2.2.2 (x86)	Microsoft Corporation	2/18/2019	79.3 MB	2.2.2.27318		
		Microsoft .NFT Framework 4 Multi-Targeting Pack	Microsoft Corporation	10/14/2018	84.6 MB	4.0.30319		

If these components are not installed they may be downloaded from the following link:

https://dotnet.microsoft.com/en-us/download/dotnet/2.2

After loading the .NET Core components you will likely need to restart IIS.

You can do this from the Command line with the following commands.

Note: You should run **CMD.EXE** as Administrator.

#### To stop IIS:

#### net stop was /y



### To restart IIS:

#### net start w3svc

Administrator: C:\Windows\System32\cmd.exe
C:\WINDOWS\system32>net start w3svc The World Wide Web Publishing Service service is starting. The World Wide Web Publishing Service service was started successfully.
C:\WINDOWS\system32>

### 2.5. SQL Server services and protocol setup

Project Cost requires that the SQL Server Networks Configuration Settings be set to allow TCP/IP connections.

In the SQL Server Configuration Manager window (on the server hosting SQL Server) – expand SQL Server Network Configuration

🚡 Sql Server Co	onfiguration Manag	ger	_ 🗆 🗙
Image: Sql Server Configuration View Help         Image: Sql Server Configuration Manager (Local)         Image: Sql Server Services         Image: Sql Server Network Configuration (32bit)         Image: Sql Server Network Configuration (32bit)	Protocol Name Shared Memory Named Pipes TCP/IP	Status Enabled Disabled Disabled	Enable Disable Properties Help
Enable selected protocol.			
Enable selected protocol.			

Click on Protocols for [your SQL Server name].

Note: your server may have more than one instance of SQL.

If TCP/IP Status is Disabled, right click on the TCP/IP, select Enable.

Restart SQL Server to apply the setting change.



SQL Server Browser service must be running:

#### Start → Control Panel → Administrative Tools → Services

		Services				-   <b>-</b>   <b>x</b>
Action Vie	ew Help					
	🖸 🖬 🚺 🖬 🕨 🖬 🕪					
rices (Local)	Services (Local)					
	SQL Server Browser	Name 🔺	Description	Status	Startup Type	Log On As
File Action View H Services (Local) C Services (Local) Services (		Software Protection	Enables the download, installati		Automatic (D	Network S.
	Stop the service	鵒 Special Administration Console Helper	Allows administrators to remot		Manual	Local Syste
	Pause the service	🔍 Spot Verifier	Verifies potential file system cor		Manual (Trig	Local Syste
	Restart the service	🔍 SQL Full-text Filter Daemon Launcher (MSS	Service to launch full-text filter	Running	Manual	NT Service.
		🔍 SQL Server (MSSQLSERVER)	Provides storage, processing an	Running	Automatic	NT Service.
	Description:	🔍 SQL Server Agent (MSSQLSERVER)	Executes jobs, monitors SQL Ser	Running	Automatic	NT Service.
File Action View	information to client computers	🤹 SQL Server Browser	Provides SQL Server connection	Running	Automatic	Local Servie
	into mation to cheric computers.	🔍 SQL Server VSS Writer	Provides the interface to backu	Running	Automatic	Local Syste
		SSDP Discovery	Discovers networked devices an		Disabled	Local Servio
		🔍 Still Image Acquisition Events	Launches applications associate		Manual	Local Syste
		🔍 Storage Tiers Management	Optimizes the placement of dat		Manual	Local Syste
		🔍 Superfetch	Maintains and improves system		Manual	Local Syste
		🔍 System Event Notification Service	Monitors system events and no	Running	Automatic	Local Syste
		🔍 System Events Broker	Coordinates execution of backg	Running	Automatic (T	Local Syste
		🔍 Task Scheduler	Enables a user to configure and	Running	Automatic	Local Syste
		< (	ш			>
	Extended Standard					

Verify "SQL Server Browser" Status is "Running" and Startup Type is "Automatic", if not, right-click **SQL Server Browser** select **Properties**.

SQL Serve	er Browser Properties (Local Computer)
General Log On	Recovery Dependencies
Service name:	SQLBrowser
Display name:	SQL Server Browser
Description:	Provides SQL Server connection information to client computers.
Path to executabl "C:\Program Files	e: (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe''
Startup type:	Automatic 🗸
Service status:	Stopped
Start	Stop Pause Resume
You can specify th from here.	A start parameters that apply when you start the service
Start parameters:	
	OK Cancel Apply

# 2.6. Active Directory Setup for Single Sign-On

The Project Cost Web Suite has two methods of sign-on authentication:

- 1. Project Cost Sign-On (no Active Directory setup needed)
- 2. Active Directory Single Sign-On (Active Directory setup optional)

When using Single Sign-On, setting up an Active Directory group is optional. By default, the **PC System User** Setup → PC Windows User Lookup window will only show users assigned to an Active Directory group named "Project Cost", however you can check the "Show All Users" to see all Active Directory users.

n PC System User Setup						_	- ×		
File Edit Tools H	lelp Debug					sa Fabrika	m, Inc. 2022-11-10		
🔀 Close 🔚 Save	🞇 Cancel ව Clear 💢 Del	lete 🔶 Passw	ord Control						
User ID	ABarr	0		🚹 PC Windo	ws User Lookup	þ		-	- 🗆 X
				File Edit	Tools Help	Debug		sa Fabrik	am, Inc. 2022-11-10
User Name	Adam Barr		🗸 Fab	Find by Acc	count Name				
Password	•••••		🗹 Thr						
Confirm Password	•••••				Account Name	2	Α	Display Name	2
Email Address	ABarr@Fabrikam.com			Administrate	n				^
Windows User		, <b>O</b>		Gregory					
User must change pa	ssword at next login								
				Show Al	lUsers			Select	Cancel

The IT or Network Administrator can create an Active Directory Security Group named "Project Cost" and add users that will be using Project Cost Web Suite.

#### **Add Active Directory Group**

- 1. On a server that has the Active Directory management tools installed, click **Start → Programs → Windows Administrative Tools → Active Directory Users and Computers**.
- 2. In Active Directory Users and Computers window, expand <domain name>.com
- 3. In the console tree, right-click the Users folder in which you want to add the new group.



- 4. Click **New**, and then **Group**.
- 5. Enter "Project Cost" for Group Name and Group Name (pre-Windows 2000)

6. Select "Global" for Group scope and "Security" for Group type.

#### Add members to "Project Cost" group

1. In Active Directory Users and Computers window, expand <domain name>.com

ile Action View Help				
• 🔿 🛃 🖬 🖌 🗅 🔀 🛛	I 🙆 📻 🛛 🖬 🔧 🕸 🖻	722		
Active Directory Users and Comput	Name	Туре	Description	
Saved Queries	Chinese Ecchange Hater Insum	UNIX.		
· 前 (h) ===	an more second	Contribution of the		
Builtin	1. AV CODEN	- Cinet		
Computers	A Project Cost	Security Group .	n —	
Domain Controllers	L OLLIER BETTER	244		
Hicrosoft Exchange Securit	Lance and all her services	Double Click	on Project Cost Group	
	AR / WELFER	and the second	the second second	
	And sugar	in this the	And the second second	
	Section and the section of the secti	Security Shoe	Contract of the line of the	
1 1 1	Strength and			

- 2. In the console tree, click the Users folder.
- 3. Locate the "Project Cost" security group

- 4. Double-Click on the "Project Cost" security group
- 5. Select the Members tab

Project Cost Properties	?	X
General Members Member Of Managed By		_
Project Cost		
Group name (pre-Windows 2000): Project Cost		
Description:		
E-mail:		
Group scope	_	
C Domain local © Security		
Global     O Distribution		
C Universal		
Notes:		
	-	
OK Cancel App	dy	

- 6. Click Add
- 7. Add users as needed

Project Cost Properti	25	? ×	
General Members	vember Of Managed By		
Members:			
Name	Active Directory Domain Services Folder		
Adam Barr	ally anal/clame		
& Brenda Diaz	olly month Chance		
🐍 Cindy Rose	ally ana/Elanta		
Selec	t Users, Contacts, Computers, Service Acco	ounts, or Group	95 <b>? X</b>
Sele	ct this object type:		
Use	rs, Service Accounts, Groups, or Other objects		Object Types
Fron	) this location:		
ally:			Locations
<u>E</u> nte	r the object names to select ( <u>examples</u> ):		
<u>Ada</u>	m Barr (ABarr@us		Check Names
Add			
	idvanced	UK	
	OK Cancel App	ųk	

8. Click OK and save settings

# 3. Download Software

Download the latest version of the Project Cost Web Suite (Angular) from https://www.rocktonsoftware.com/product-downloads/

On the Rockton Product Downloads page, select "Rockton Project Cost" for Product, then select the latest version of "Project Cost Web Suite (Angular)" under "Other Files" and click Download Selected button (may need to scroll-down to see button).

The downloaded file is a self-extracting file which should be executed on the IIS server.

Run the downloaded file (see <u>Blocked downloads</u> if you have any issues running the application), read and accept the Software License Agreement.



Click **Extract**. The extract process will create a new sub-folder under the **C:\inetpub** folder or will overwrite the sub-folder if it already exists (if the sub-folder is overwritten, settings and customizations will be lost), each new version of Project Cost Web Suite will create a new sub-folder, the previous version sub-folder will still exist as a backup.



The selected destination folder will contain a sub-folder named "**Project Cost Web Suite #.#.#** (Angular)" (where #.#.# is the version).

# 4. New Install of Project Cost Web Suite

These instructions are a guideline and do not cover every possible configuration scenario, contact you IT specialist about advanced configurations and settings.

**IMPORTANT NOTE:** If your IIS server already contains web sites other than the Project Cost Web Suite, contact your IT specialist before continuing with these instructions.

Note: It is highly recommended that you use "https" (secure connection) for Binding Type. Binding Type is set in Bindings for the site. If you choose "https" binding, you will need a TLS/SSL server certificate, contact your IT specialist about acquiring and installing TLS/SSL server certificates.

Open Internet Information Services (IIS) Manager which can be found in Control Panel → Administrative Tools.

The Internet Information Services (IIS) Manager window is divided into three primary areas or panes.

- 1. The **Connections Pane** will show the server's name, Application Pool and Sites.
- The Features Pane will list features relevant to the item selected in the Connections Pane. The Features Pane can also show content relevant to the item that is selected in the Connections Pane, select Content View at the bottom of the Features Pane.
- 3. The **Actions Pane** will show actions that are relevant to what is selected in the **Connections Pane** and **Features Pane**.



## 4.1. Create Application Pools

Two Application Pools are needed, one for the Project Cost Web Suite and another for Project Cost Reporting.

#### **Create New Application Pool for Project Cost Web Suite:**

In IIS Manager Connections pane, select Application Pools, in Actions pane, click Add Application Pool...

📬 Internet Information Services (IIS)	Manager							- 🗆	×
← →	ication Pools							🐱 🖂 🛅	• 🔞 -
File View Help									
Connections	Application This page lets you view an worker processes, contain	1 POOIS d manage the one or more	e list of applicati applications, an	ion pools on the ser d provide isolation	ver. Application pools among different appli	are associated with cations.	Actions Add App Set Appli Help	lication Pool cation Pool De	] faults
> 😔 Default Web Site	Filter:	🕶 🖤 Go	- 🖳 Show All	Group by: No Gr	ouping 🝷				
	Name	Status	.NET CLR V	Managed Pipel	Identity	Applications			
	.NET v2.0	Started	v2.0	Integrated	ApplicationPoolld	0			

Enter "Project Cost Web Suite" for **Name:** 

Select a .NET	CLR	version	that	contains	"v4.(	0"
---------------	-----	---------	------	----------	-------	----

Add Application Pool	?	×
Name:		
Project Cost Web Suite		
.NET CLR version:		
.NET CLR Version v4.0.30319		$\sim$
Managed pipeline mode:		
Integrated $\sim$		
Start application pool immediately	,	
ОК	Cancel	

#### Click OK.

#### **Create New Application Pool for Project Cost Reporting:**

In IIS Manager Connections pane, select Application Pools, in Actions pane, click Add Application Pool...

陼 Internet Information Services (IIS)	Manager							—		×
← → DEV21 ► Appl	ication Pools							<b>60</b>	× 🏠	• 🕥
File View Help										
Connections	Application This page lets you view and a worker processes, contain or	POOIS manage the I ne or more ap	iist of applicati pplications, an	on pools on the se d provide isolatior	rver. Application pools among different appl	s are associated with ications.	Actions Add Ap Set App	plication lication P	Pool Pool Defa	aults
> 😔 Default Web Site	Filter:	• 🐨 Go 🕞	Show All	Group by: No G	rouping -					
	Name	Status	.NET CLR V	Managed Pipel	Identity	Applications				
	.NET v2.0	Started	v2.0	Integrated	ApplicationPoolld	0				

Enter "Project Cost Reporting" for Name:

Select "No Managed Code" for **.NET CLR version**.

Add Application Pool	?	×
Name:		
Project Cost Reporting		
.NET CLR version:		
No Managed Code		$\sim$
Managed pipeline mode:		
Integrated $\sim$		
Start application pool immediate	ly	
ОК	Cancel	

Click OK.

# 4.2. Install

The Project Cost Web Suite can be installed as a stand-alone site or the child of another site.

If installed as a stand-alone site, it will have a URL with no path, for example, <a href="https://www.fabrikam.com">https://www.fabrikam.com</a> (no path). To install the Project Cost Web Suite as a stand-alone site, use Option 1: Install as a stand-alone site.

If installed as a child of another site, it will have a URL with a path, for example, <u>https://www.fabrikam.com/time-expense</u> (path is <u>/time-expense</u>). To install the Project Cost Web Suite as a child of another site, use Option 2: Install as a child of another site.

Note: Assigning the domain/sub-domain names is not a function of IIS configuration, it is a function of DNS (Domain Name System), contact your IT specialist.

### 4.2.1. Option 1: Install as a stand-alone site

Use this option if you want the Project Cost Web Suite to be its own site. In the browser, you would navigate to the Project Cost Web Suite using a URL with no path, for example <a href="https://www.fabrikam.com">https://www.fabrikam.com</a> (notice there is no path after the domain fabrikam.com)

In IIS Manager Connections pane, select Sites, in Actions pane, click Add Website...

👋 Internet Information Services (IIS)	Manager					– 🗆 X
← → DEV21 → Site	5 🕨					🔛 🖾 🟠 🔞 🕶
File View Help						
Connections	Sites					Actions           Add Website
DEV21     DEV21     DEV21     DEV21	Filter:	-	🖤 Go 👒 🕁 Show A	All Group by: No	Grouping -	Set Website Defaults
🗸 📓 Sites	Name	ID	Status	Binding	Path	<b>W</b> нер
> 👋 Default Web Site	😌 Default Web Site	1	Started (http)	*:80 (http)	C:\inetpub\wwwroot	

Enter "Project Cost Web Suite" for **Site name:** 

Select "Project Cost Web Suite" for Application Pool.

Set **Physical path:** to "C:\inetpub\Project Cost Web Suite #.#.# (Angular)" (where #.#.# is the version).

Add Website ?	×
Site name: Application pool:	
Project Cost Web Suite Project Cost Web Suite Select	
Content Directory	
Physical path:	
C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)	
Pass-through authentication	
Connect as Test Settings	
Binding	
Type: IP address: Port:	
https 🗸 All Unassigned 🗸 443	
Host name:	
Require Server Name Indication	
Disable TLS 1.3 over TCP Disable QUIC	
Disable Legacy TLS Disable HTTP/2	
SSL certificate:	
www.fabrikam.com View	
Start Website immediately	
OK Canc	el

Note: Multiple running (Status = Started) sites cannot share the same **IP Address**, **Port** and **Host Name** combination, you may need to choose a different **IP Address**, **Port** or **Host Name** if this site conflicts with another site. You can also stop the other conflicting site if it is not being used. If you're not sure how to resolve the conflict, contact your IT specialist.

#### Click OK.

In the Connections pane, select the Project Cost Web Suite site.

In the Features pane, double-click **Authentication**:



Verify Anonymous Authentication is enabled.

Enable **Windows Authentication** if using Single Sign-On, else disable.

All other authentication types should be disabled.



In the Connections pane, expand Project Cost Web Suite site, right-click on Reporting and click **Convert to Application**.

Note: The services Information Services	(IIS) Manager
← → DEV21 →	Sites 🕨 Project Cost Web Suite 🛛
File View Help	
Connections	Reporting H
2 PEV21	
DEV21     DEV21     DEV21     DEV21	Filter:
V 🐻 Sites	ASP.NET
> 🍪 Default Web Site	
🗸 🌍 Project Cost Web Su	iite 🏾 📲 🔛
> C App_Setup	.NET .NET Authorizat Compilation
Attachments	
> 📔 bin	j= ab
> 🦳 Reporting	
> 🧾 Templates 🔎	Explore
> 📲 UserReport	Edit Permissions
1	Convert to Application
1	Add Application
2	Add Virtual Directory on
	Manage Folder 🔹 🕨
62	Refresh
<b>E</b>	Switch to Content View
	Management

Select "Project Cost Reporting" for **Application pool:**.

Add Application	? ×
Site name: Project Cost Web Suite Path: /	
Alias: Application pool:	
Reporting Project Cost Reporting	Select
Example: sales Physical path: C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor	
Pass-through authentication Connect as Test Settings	
OK	Cancel

#### Click OK.

Expand Reporting, right-click on WebViewer, click Convert to Application

Internet Information Services	s (IIS) Manager
← → DEV21 →	Sites      Project Cost Web Suite      Re
File View Help	
Connections	WebViewer H
<ul> <li>DEV21</li> <li>Application Pools</li> <li>Sites</li> <li>Project Cost Web Site</li> <li>Project Cost Web S</li> <li>App_Setup</li> <li>App_Setup</li> <li>Attachments</li> <li>Mathematical Site</li> <li>Reporting</li> <li>ClientApp</li> <li>WebViewer</li> </ul>	Suite Filter:
<ul> <li>- WebViewer</li> <li>- WebVie</li></ul>	Explore         Edit Permissions         Convert to Application         Add Application         Add Virtual Directory         Manage Folder         Refresh
	Switch to Content View

Select "Project Cost Web Suite" for **Application pool:**.

Add Application	?	×
Site name: Project Cost Web Suite Path: /Reporting/		
Alias: Application pool:		
WebViewer Project Cost Web Suite	Select	
Example: sales Physical path:		
C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor Pass-through authentication Connect as Test Settings		
Enable Preload		
ОК	Cancel	

Click OK.

### 4.2.2. Option 2: Install as a child of another site

Use this option if you want the Project Cost Web Suite to be a child of another site. In the browser, you would navigate to the Project Cost Web Suite using a URL with a path, for example <a href="https://www.fabrikam.com/time-expense">https://www.fabrikam.com/time-expense</a> (notice the path /time-expense after the domain fabrikam.com)

In IIS Manager Connections pane, expand Sites and select the site you wish to install the Project Cost Web

#### Suite as a child, in Actions pane, click View Applications



In Actions pane, click Add Application...

Nation Services (IIS)	Manager	– 🗆 X
← → ● DEV21 → Sites	Default Web Site	🖸 🛛 🟠 🔞 🕶
File View Help		
Connections	Applications         This page lets you view and manage the list of applications. Applications contain content and code.         Filter:	Actions Add Application Set Application Defaults Help

Enter a value for **Alias:** (This value will be the path in the URL, for example an alias of "time-expense" will result in a URL of <a href="https://www.fabrikam.com/time-expense">https://www.fabrikam.com/time-expense</a>)

Select "Project Cost Web Suite" for Application pool:.

Set **Physical path:** to "C:\inetpub\Project Cost Web Suite #.#.# (Angular)" (where #.#.# is the version).

Add Application	?	×
Site name: Default Web Site Path: /		
Alias: Application pool:		
time-expense Project Cost Web Suite	Select	
Example: sales		
Physical path:		
C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)		
Pass-through authentication		
Connect as Test Settings		
Enable Preload		
ОК	Cancel	

#### Click OK.

In the Connections pane, expand the site that contains the Project Cost Web Suite application and select the node that corresponds to the value used for **Alias:** above.

In the Features pane, double-click Authentication:



Verify **Anonymous Authentication** is enabled.

Enable **Windows Authentication** if using Single Sign-On, else disable.

All other authentication types should be disabled.



In the Connections pane, expand the node that corresponds to the value used for **Alias:** above, right-click on Reporting and click **Convert to Application**.

🕞 Internet Information Services (IIS) Manager			
← → DEV21 →	Sites 🔸 Default Web Site 🔸 time-e	ex (	
File View Help			
Connections	Application Connection M Settings Strings	η .Ν	
> . 🚰 UserReport	Edit Permissions  Convert to Application Add Application Add Virtual Directory Manage Folder Refresh Switch to Content View	[ Dc N	

Select "Project Cost Reporting" for **Application pool:**.

Add Application	?	×
Site name: Default Web Site Path: /time-expense/		
Alias: Application pool:		
Reporting Project Cost Reporting	Select	
Example: sales Physical path: C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor		
Pass-through authentication Connect as Test Settings		
Enable Preload		
ОК	Cancel	

#### Click OK.

Expand Reporting, right-click on WebViewer, click Convert to Application



Select "Project Cost Web Suite" for Application pool:.

Add Application		?	×
Site name: Default Web Site Path: /time-expense/Repo	orting/		
Alias:	Application pool:		
WebViewer	Project Cost Web Suite	Select	
Example: sales Physical path:			
C:\inetpub\Project Cost Web Suite Pass-through authentication	1.0.1 (Angular)\Repor		
Connect as Test Settings.			
	ОК	Cancel	

Click OK.

# 5. Upgrade Project Cost Web Suite

# Open Internet Information Services (IIS) Manager which can be found in Control Panel → Administrative Tools.

The Internet Information Services (IIS) Manager window is divided into three primary areas or panes.

- 1. The **Connections Pane** will show the server's name, Application Pool and Sites.
- The Features Pane will list features relevant to the item selected in the Connections Pane. The Features Pane can also show content relevant to the item that is selected in the Connections Pane, select Content View at the bottom of the Features Pane.
- 3. The **Actions Pane** will show actions that are relevant to what is selected in the **Connections Pane** and **Features Pane**.



Locate the existing installation of the Project Cost Web Suite.

The Project Cost Web Suite can be installed as a stand-alone site or the child of another site.

If installed as a stand-alone site, it will have a URL with no path, for example, <a href="https://www.fabrikam.com">https://www.fabrikam.com</a> (no path). To upgrade the Project Cost Web Suite installed as a stand-alone site, use <a href="https://www.fabrikam.com">Option 1: Upgrade</a> (no stand-alone site.

If installed as a child of another site, it will have a URL with a path, for example, <u>https://www.fabrikam.com/time-expense</u> (path is <u>/time-expense</u>). To upgrade the Project Cost Web Suite installed as a child of another site, use Option 2: Upgrade child of another site.

# 5.1. Option 1: Upgrade stand-alone site

Use this option if the Project Cost Web Suite is its own site. In the browser, you would navigate to the Project

Cost Web Suite using a URL with no path, for example <u>https://www.fabrikam.com</u> (notice there is no path after the domain fabrikam.com)

In IIS Manager Connections pane, select the Project Cost Web Suite site under **Sites**, in Actions pane, click **Basic Settings** 



Change **Physical path:** to the new version "C:\inetpub\Project Cost Web Suite #.#.# (Angular)" (where #.#.# is the version).

Verify that **Application pool** is "Project Cost Web Suite", if not, change to "Project Cost Web Suite" (if "Project Cost Web Suite" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Site		?	×
Site name: App Project Cost Web Suite Pro	plication pool: ject Cost Web Suite	Select	
Physical path: C:\inetpub\Project Cost Web Suite 1.0.1	(Angular)		
Pass-through authentication Connect as Test Settings			
	ОК	Cancel	

Click OK.

In the Connections pane, expand Project Cost Web Suite, select Reporting, in Action Pane, click **Basic Settings** (if **Basic Settings** does not exist in Action Pane, see Convert Reporting to Application)

Nation Services (IIS)	lanager	- 🗆 X
← → DEV21 → Sites	Project Cost Web Suite     Reporting	🖸 🐼 🔂 🕢 -
File View Help		
Connections	Fitte: <ul> <li>Go</li> <li>Go</li> <li>Show All</li> <li>Group by:</li> <li>Area</li> <li>Image: Configurat</li> <li>Editor</li> </ul> Pateres View Content View   Patere	Actions Explore Edit Permissions Basic Settings View Virtual Directories Manage Application Browse Application Browse *:443 (https) Advanced Settings Install Application From Gallery P Help Help
Ready		<b>1</b> .:

Verify that **Application pool** is "Project Cost Reporting", if not, change to "Project Cost Reporting" (if "Project Cost Reporting" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Application	?	×
Site name: Project Cost Web Suite Path: /		
Alias: Application pool:		
Reporting Project Cost Reporting	Select	
Example: sales Physical path: C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor		
Pass-through authentication Connect as Test Settings		
Enable Preload		
ОК	Cancel	

#### Click OK.

In the Connections pane, expand Reporting, select WebViewer, in Action Pane, click **Basic Settings** (if **Basic Settings** does not exist in Action Pane, see Convert WebViewer to Application)

📲 Internet Information Services (IIS) N	Aanager	- 0 X
← → DEV21 → Sites	Project Cost Web Suite     Reporting     WebViewer	🔁 🖂 🔂 🗸
File View Help		
Connections	Image: WebViewer Home         Filter:       Image: Go       Show All       Group by:       Area       Image: Go         ASP.NET       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: NET Users       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization       Image: Globalization         Image: NET Trust       Image: Globalization       Image: Globalizati	Actions
	IIS Authentic Compression Authentic Compression Default Document Default Default Default Directory Browsing Handler Handler HTTP Logging MIME Types Modules Output	
Ready		<b>₩</b> .:

Verify that **Application pool** is "Project Cost Web Suite", if not, change to "Project Cost Web Suite" (if "Project Cost Web Suite" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Application	? ×
Site name: Project Cost Web Suite Path: /Reporting	
Alias: Application pool:	
WebViewer Project Cost Web Suite	Select
Example: sales	
Physical path:	
C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor	
Pass-through authentication	
Connect as Test Settings	
Enable Preload	
ОК	Cancel

Click OK.

# 5.2. Option 2: Upgrade child of another site

Use this option if the Project Cost Web Suite is a child of another site. In the browser, you would navigate to the Project Cost Web Suite using a URL with a path, for example <a href="https://www.fabrikam.com/time-expense">https://www.fabrikam.com/time-expense</a> (notice the path /time-expense after the domain fabrikam.com)

In IIS Manager Connections pane, expand the site under **Sites** where the Project Cost Web Suite is installed as a child and select the child, in Actions pane, click **Basic Settings** 

🕞 Internet Information Services (IIS) M	1anager	– 🗆 X
← → DEV21 → Sites	Default Web Site      time-expense	🔛 🐼 🟠 I 🔞 🔹
File View Help		
Connections	Filter:       Image: Comparison of the second	Actions         Actions         Explore         Edit Permissions         Basic Settings         View Virtual Directories         Manage Application         Browse Application         Browse *:80 (http)         Advanced Settings         Install Application From         Gallery         W Help
	IIS Authentic Compression Authentic Compression Default Document Default Directory Browsing Fror Pages Failed Request Tra MIME Types Modules Output	
Ready		Sec. 19

Change **Physical path:** to the new version "C:\inetpub\Project Cost Web Suite #.#.# (Angular)" (where #.#.# is the version).

Verify that **Application pool** is "Project Cost Web Suite", if not, change to "Project Cost Web Suite" (if "Project Cost Web Suite" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Application		?	×
Site name: Default Web Site Path: /			
Alias:	Application pool:		
time-expense	Project Cost Web Suite	Select	
Example: sales Physical path: C:\inetpub\Project Cost Web Suite Pass-through authentication	1.0.1 (Angular)		
Connect as Test Settings			
Enable Preload			
	ОК	Cancel	

#### Click OK.

In the Connections pane, expand child, select Reporting, in Action Pane, click **Basic Settings** (if **Basic Settings** does not exist in Action Pane, see Convert Reporting to Application)

🔰 Internet Information Services (IIS) Manager	– 🗆 X
← → DEV21 → Sites → Default Web Site → time-expense → Reporting →	😰 🛛 🟠 🔞 🗸
File View Help	
Connections         Image: DEV21         Image: Default Web Site         Image: Default	Actions Explore Edit Permissions Basic Settings View Virtual Directories Manage Application Browse Application Browse *:80 (http) Advanced Settings Install Application From Gallery Help Help
neouy	<b>1</b> .:

Verify that **Application pool** is "Project Cost Reporting", if not, change to "Project Cost Reporting" (if "Project Cost Reporting" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Application	?	×
Site name: Default Web Site Path: /time-expense		
Alias:     Application pool:       Reporting     Project Cost Reporting       Example: sales       Physical path:	Select	
C:\inetpub\Project Cost Web Suite 1.0.1 (Angular)\Repor Pass-through authentication Connect as Test Settings Enable Preload		
ОК	Cancel	

Click OK.

In the Connections pane, expand Reporting, select WebViewer, in Action Pane, click **Basic Settings** (if **Basic Settings** does not exist in Action Pane, see <u>Convert WebViewer to Application</u>)

📲 Internet Information Services (IIS) M	lanager	- 🗆 X
← → DEV21 → Sites	▶ Default Web Site ▶ time-expense ▶ Reporting ▶ WebViewer ▶	🖸 🛛 🟠 🔞 🗸
File View Help		
File       View       Heip         Connections       Image: State	Vime-expense/Reporting/WebViewer Home         Filter:       Image: Go and the system of th	Actions
	Handler HTTP Logging MIME Types Modules Output V	
	📰 Features View 🖓 Content View	
Ready		Sa 19

Verify that **Application pool** is "Project Cost Web Suite", if not, change to "Project Cost Web Suite" (if "Project Cost Web Suite" Application pool does not exist, see <u>Create Application Pools</u> to create Application pool)

Edit Application		?	×
Site name: Default Web Site Path: /time-expense/Repo	orting		
Alias:	Application pool:		
WebViewer	Project Cost Web Suite	Select	
Example: sales			
Physical path:			
C:\inetpub\Project Cost Web Suite	1.0.1 (Angular)\Repor		
Pass-through authentication			
Connect as Test Settings.			
Enable Preload			
	ОК	Cancel	

Click OK.

# 6. Setup and Configure Project Cost Web Suite

Open Setup.exe (located by default in <u>C:\inetpub\Project Cost Web Suite #.#.# (Angular)\App\_Setup\</u> folder, where #.#.# is the version):

5 Project Cost Web Suite Setu	р				×
🔀 Close F Save	🛃 SQL 🔯	Logo 🛛 🖫	Advanced 💐	IIS Info	1.0.1 (2022-10-31)
SQL Server					
System					
Domain	DEV21				
Application Path	/				
Authentication	● Project Cost ○ W	/indows			
Disable Expense					
Disable Time					
Email Alert Template (xslt file)	emailalert_plaintext.xs	slt			
Email Alert Subject	Time & Expense Trans	actions Need	Your Attention		
Lockout Features Enabled	$\checkmark$				
Lockout Window (Minutes)	30	0			
Max Attachment Size	10,485,760	0			
Pay Period Range (Days)	100	0			
Recent Transactions (Days)	3(	0			
Recent Transactions (Number)	1(	0			
Standard SOP Comments	$\checkmark$				
Submission Return Count		6			
Title	Project Cost Web Suit	æ			
Web Suite Directory: C:\inetpub	\Project Cost Web Suite	2 1.0.1 (Angula	r)		SQL: Not Connected

**SQL Server**: The SQL Server instance name, see SQL Settings.

System: The GP system database name, see SQL Settings.

**Domain**: The Active Directory Domain (used by Single Sign-On).

- Application Path: When the Project Cost Web Suite is installed as its own site, Application Path will be "/". If the Project Cost Web Suite is installed as the child of another site, the Application Path will be the value used for Alias in Internet Information Services (IIS) Manager, for example if the Alias is "time-expense", then the Application Path will be "/time-expense/" (the leading and trailing forward-slash are required). Alternatively, you can use the IIS Info window to set the Application Path.
- **Authentication**: If using Single Sign-On, the select "Windows", else select "Project Cost". If using "Windows", then verify that Windows Authentication is enabled in IIS, see IIS Info.
- **Disable Expense** and **Disable Time**: Check these if you wish to disable Expense entry or Time entry in the Project Cost Web Suite.
- **Email Alert Template**: The template used to compose an email sent to users when their time or expense transactions are rejected by an approver.
- **Email Alert Subject**: The subject used for the email sent to users when their time or expense transactions are rejected by an approver.
- **Lockout Features Enabled**: If enabled, an IP address is locked out when there are too many invalid login attempts. After the 3rd attempt, the IP address is locked out for 16 seconds, each attempt after that doubles the lockout time up to the Lockout Window (Minutes).

**Lockout Window (Minutes)**: The maximum lockout time and the amount of time since last attempt information about a specific IP address is retained.

Max Attachment Size: The maximum allowed size in bytes of an attachment.

- Pay Period Range (Days): The range of days (plus or minus) that transactions can be entered.
- **Recent Transactions (Days)**: In the Week & Day views, shows recently used Project/Task combinations, this value limits the number of days to search for recently used Project/Task combinations. To show no recently used Project/Task combinations, set to 0.
- **Recent Transactions (Number)**: In the Week & Day views, shows recently used Project/Task combinations, this value limits the number of Project/Task combinations shown by showing the number of most recent.
- **Standard SOP Comments**: The standard built-in Microsoft Dynamics GP SOP Document reports will only print 4 lines of 50 characters from the 500 character SOP Comment. To print the full 500 characters that the SOP Comment can store requires custom reports. If using the standard reports, check this option. If using custom reports that will display the full 500 characters, leave this option unchecked.
- **Submission Return Count**: The Submission view shows previous submissions, this value is used to limit how many are shown at a time, with a "More" option to retrieve another group of older submissions if there are any.
- **Title**: The title that is shown on the Login and in the browser's title bar or the browser's page tab.

### 6.1. SQL Settings

🌄 Project Cost Web Sui	te Setup						×
🔀 Close 📕 Sa	ve 📑	SQL	Logo	Advance	ed 💐	IIS Info	1.0.1 (2022-10-31)
SQL Server	🔡 SQL Setti	ings				×	
System	SOL Server	DEV21\CD20	10				
Domain	Jucar ID *		10				
Application Path	Dassword	sa					
Authentication	rassword						
Disable Expense				Connect			
Disable Time	System	Olympic Sys	tems, Inc.	(DYN23) *		~	
Email Alert Template (xs	Companies	✓ Fabrikam	Inc. (TW)	023)			
Email Alert Subject			,	525,			
Lockout Features Enable							
Lockout Window (Minut							
Max Attachment Size							
Pay Period Range (Days)							
Recent Transactions (Day							
Recent Transactions (Nu							
Standard SOP Comment	Update \	Web Suite Loa	in	OK		Cancel	
Submission Return Cour				1			
Title	Projec	ct Cost Web Su	uite				
Web Suite Directory: C:\ir	netpub\Project	t Cost Web Sui	ite 1.0.1 (A	ngular)			SOL: Connected

Click **SQL**, to open the SQL Settings window:

Enter SQL Server, User ID and Password.

Note: Use a SQL User ID which has permissions to create SQL logins (for example: **sa**). The User ID and Password is used during setup to create a SQL login which will be used by the Project Cost Web Suite during regular operation, the User ID and Password are not stored or used at any other time.

Click Connect.

Select the System.

Check the **Companies** that will be available to the Project Cost Web Suite.

Click OK.

Check **Update Web Suite Login** to force setup to recreate the SQL login for the Project Cost Web Suite if it previously existed.

# 6.2. Logo

#### Click **Logo**, to open the Logo window:



This window shows the current logo that is displayed on the login page.

Click **Change** to change the logo image. Image must be a .png file and should be approximately 250 pixels wide by 150 pixels high.

Find and select the image, then click **OK**.

## 6.3. Advanced

#### Click **Advanced**, to open the Advanced Settings window:

🌆 Project	Cost Web Suite Setup	×
🔀 Close	📕 Save 🛃 SQL	Solution State
SQL Server	Le Advanced Settings	×
System Domain Application	Allowable Variance Allowed Origins	0.01
Authentica Disable Exp Disable Tin Email Alert	Attachment Types Attachment Type List	Allow All
Email Alert Lockout Fe Lockout W	HTTPS Redirection	Ulter Sequeity Obsignt Sequeity Older and Designt Sequeity
Max Attach Pay Period	Service Log Enabled	
Recent Tran Recent Tran	Service Log Retention Days SQL Command Timeout	7 0 = Unlimited
Standard S Submissior	SQL Connection TCP Only SRS Report Manager Url Override	
Title Web Suite D	Trace Enabled Trace Remote Enabled	
	Generate New Security Key	OK

Allowable Variance: Allowable rounding variance.

#### Allowed Origins: Not used.

#### Attachment Types:

- Allow All: All attachment types are allowed.
- Allow Only Listed: Only allows attachment types listed in Attachment Type List.
- **Deny Listed**: Allows all attachment types except those listed in **Attachment Type List**.

Note: There are certain file types that are always blocked, regardless of these settings, see <u>Standard</u> Blocked File Types.

Attachment Type List: List of attachment types that are either allowed or denied.

HTTPS Redirection: Not used.

#### Initialize Approval By:

- **User Security**: Approval transactions will be included because the approver has rights to approve the user who created the transaction.
- **Project Security**: Approval transactions will be included because the approver has rights to approve the Project and Task assigned to the transaction.
- **User and Project Security**: Approval transactions will be included because the approver has rights to approve the user who created the transaction or the approver has rights to approve the Project and Task assigned to the transaction.

Note: This is to improve performance if only one type of security is being used, the default is User and Project Security.

Service Log Enabled: Enables logging of Web API service.

**Service Log Retention Days**: Number of days to retain Service Log entries.

- **SQL Command Timeout**: Amount of time in seconds before a SQL command will timeout.
- **SQL Connection TCP Only**: Only allow TCP/IP connection type when connecting to the SQL server.
- SRS Report Manager URL Override: Overrides SRS Report Manager URL. SRS Report Manager URL comes from Microsoft Dynamics GP → Administration → Setup → Reporting Tools Setup. Check the box to override the URL from Microsoft Dynamics GP, type the new URL in the text box or leave the text box empty to hide the Reporting Service Reports button in the Project Cost Web Suite.
- **Trace Enabled**: Enables tracing for the purpose of debugging issues. Trace can be viewed by opening a second tab in the browser and navigating to **<site base url>/trace.axd**. For example, if the site base URL is <a href="https://www.fabrikam.com/time-expense">https://www.fabrikam.com/time-expense</a>, to view the trace, navigate to <a href="https://www.fabrikam.com/time-expense/trace.axd">https://www.fabrikam.com/time-expense</a>, to view the trace, navigate to <a href="https://www.fabrikam.com/time-expense/trace.axd">https://www.fabrikam.com/time-expense/trace.axd</a>

Trace Remote Enabled: Enables trace to be viewed from a remote computer.

**Generate New Security Key**: Generates a new security key used by JWT tokens. This will invalidate any tokens currently in use, forcing users to login again.

## 6.4. IIS Info

The IIS Info window will show information from IIS:

🧓 Project Cost Web Suite Setu	p		×
🔀 Close 📕 Save	🛃 SQL 🔯 Logo	🖫 Advanced 💐 IIS Info	1.0.1 (2022-10-31)
SQL Server System Domain	DEV21		
Application Path	💐 IIS Information	× –	
Authentication	IIS Site Name	: Project Cost Web Suite	
Disable Expense	State	: Started	
Disable Time	Application Path	: /	
Email Alert Template (xslt file)	Anonymous Authentication	Enabled	
Email Alert Subject	Windows Authentication	- Enabled	
Lockout Features Enabled	Https Binding	: IP * Port: 443	
Lockout Window (Minutes)	Use this App	lication Path	
Max Attachment Size			
Pay Period Range (Days)		ОК	
Recent Transactions (Days)	50		
Recent Transactions (Number)	10		
Standard SOP Comments	✓		
Submission Return Count	6		
Title	Project Cost Web Suite		
Web Suite Directory: C:\inetpub	Project Cost Web Suite 1.0.1	(Angular)	SQL: Not Connected

If the Project Cost Web Suite is not setup in IIS, then the IIS Info window will not show any information and instead will show an error:



From the IIS Info window, you can use **Use this Application Path** to set the **Application Path** setting on the main setup window:

🧓 Project Cost Web Suite Setu	р		×
🔀 Close 📕 Save	🛃 SQL 🔯 Logo 🖫	Advanced 💐 IIS Info	1.0.1 (2022-10-31)
SQL Server		🍓 IIS Information	×
System Domain	DEV21	IIS Site Name State	: Default Web Site : Started
Application Path	/time-expense/	Application Path	: /time-expense/
Authentication	Project Cost     Windows	Anonymous Authentication	: Enabled
Disable Expense		Windows Authentication	: Enabled
ensere enpense		Http Binding	: None
Disable Time		Https Binding	: IP: *, Port: 443
Email Alert Template (xslt file)	emailalert_plaintext.xslt	Use this Applicat	ion Path
Email Alert Subject	Time & Expense Transactions Need		
Lockout Features Enabled			ОК
Lockout Window (Minutes)	30		

If using Single Sign-On, verify that Windows Authentication is enabled, if it is not enabled, enable in Internet Information Services (IIS) Manager:

输 IIS Information		×	
IIS Site Name	;	Default Web Site	
State		Started	
Application Path		/time-expense/	
Anonymous Authentication		Enabled	
Windows Authentication		Enabled	
Http Binding	;	None	
Https Binding	:	IP: *, Port: 443	
Use this Applicat	io	n Path	
		OK	

# 7. Appendix

# 7.1. Blocked downloads

When trying to run an application downloaded from the Internet, you may experience issues and warnings:

If you see a warning similar to the following example, click "More info"



Then you should see something similar to the following example, click "Run anyway".



Alternatively, right-click the downloaded file, click **Properties**, you should see something similar to:



Check **Unblock** and click **OK**. Then run the application again.

### 7.2. Standard Blocked Attachment Types

Extension	Description
ade	Microsoft Access Project Extension
adp	Microsoft Access Project
арр	Application File
application	Click-Once Application
asa	ASP Declarations File
ashx	ASP.NET Web Handler File
asmx	ASP.NET Web Services Source File
asp	Active Server Pages
aspx	ASP.NET Active Server Pages
bas	Microsoft Visual Basic Class Module
bat	Batch File
bin	Binary File
cdx	Compound Index
cer	Certificate File
chm	Compiled HTML Help File
class	Java Class File
cmd	Microsoft Windows NT Command Script
com	Microsoft MS-DOS Program
config	Configuration File
cpl	Control Panel Extension

The following is a list of attachment file types that are always blocked:

crt	Security Certificate
csh	Script File
d11	Windows Dynamic-Link Library
drv	Driver File
exe	Program
fxp	Microsoft Visual FoxPro Compiled Program
fon	Font File
font	Font File
gadget	Windows Desktop Gadget
hlp	Help File
hta	HTML Program
htr	Script File
htw	HTML Document
ida	Internet Information Services File
idc	Internet Database Connector File
idq	Internet Data Query File
inf	Autorun
ins	Internet Naming Service
isp	Internet Communication Settings
its	Internet Document Set File
jar	Java Executable
je	JScript File
js	Javascript File
jse	JScript Encoded Script File
ksh	Korn Shell Script File
lib	Program Library Common Object File Format
lnk	Shortcut
mad	Shortcut
maf	Shortcut
mag	Shortcut
mam	Shortcut
maq	Shortcut
mar	Shortcut
mas	Microsoft Access Stored Procedure
mat	Shortcut
mau	Shortcut
mav	Shortcut
maw	Shortcut
mda	Microsoft Access Add-In Program
mdb	Microsoft Access Program
mde	Microsoft Access MDE Database
mdt	Microsoft Access Data File
mdw	Microsoft Access Workgroup
mdz	Microsoft Access Wizard Program
msc	Microsoft Common Console Document
msh	Microsoft Agent Script Helper
msh1	Microsoft Agent Script Helper

msh1xml	Microsoft Agent Script Helper
msh2	Microsoft Agent Script Helper
msh2xml	Microsoft Agent Script Helper
mshxml	Microsoft Agent Script Helper
msi	Microsoft Windows Installer Package
msp	Microsoft Installer Patch Package File
mst	Visual Test Source File
obj	Relocatable Object Code
осх	Object Linking and Embedding Control Executable
ops	Microsoft Office Profile Settings File
pcd	Photo CD Image or Microsoft Visual Test Compiled Script
pgm	CGI Program
pif	Shortcut to MS-DOS Program
prf	System File
prg	Program Source File
printer	Printer File
ps1	Windows PowerShell Script
ps1xml	Windows PowerShell Script
ps2	Windows PowerShell Script
ps2xml	Windows PowerShell Script
psc1	Windows PowerShell Script
psc2	Windows PowerShell Script
pst	Microsoft Outlook Personal Folder File
reg	Registry Entries
rem	ACT! Database Maintenance File
scf	Windows Explorer Command File
scr	Screen Saver
sct	Script File
shb	Windows Shortcut
shs	Shell Scrap Object
shtm	HTML file that contains server-side directives
shtml	HTML file that contains server-side directives
soap	Simple Object Access Protocol File
stm	HTML file that contains server-side directives
sys	System Device Driver
url	Uniform Resource Locator (Internet Shortcut)
vb	Microsoft Visual Basic Scripting Edition File
vbe	VBScript Encoded Script File
vbs	VBScript File
vxd	Virtual Device Driver
WS	Windows Script File
WSC	Windows Script Component
wsf	Windows Script File
wsh	Windows Script Host Settings File