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Once you're ready to <u>deploy</u> your Silverlight application to a web server, you can use the **Package/Publish** feature in Visual Studio to easily accomplish this. Microsoft has a thorough <u>overview</u>, which we encourage you to read. Here we'll briefly discuss the steps and any DevForce-specific requirements.

Although this walk through is for a Silverlight application, most steps also apply to any IIS deployment of the EntityServier.

Step 1 - Settings

Access the Package/Publish Web settings tab from the project properties for the web application.

FirstSilverlightAppWeb \times		→ Solution Explorer
		🔚 🕞 🗷 🖧 🐌 🕒 😂
Application	Configuration Palares Platform Astic (Asy CDID	Solution 'SimpleSilverlightApp' (2 projects)
Build	Configuration: Release Platform: Active (Any CPO)	Generation Generation Generation Generation
Web	Package/Publish enables you to deploy your Web application to Web servers.	Gerences Shared Code
Package/Publish Web	Learn more about Package/Publish Web	App.xaml
	Items to deploy (applies to all deployment methods)	Page.xaml
Package/Publish SQL	Only files needed to run this application	FirstSilverlightAppweb Properties
Silverlight Applications	Exclude generated debug symbols	References
Build Events	Exclude files from the App. Data folder	▷ iii ClientBin iii log
Resources	Items to deploy (applies to Web Deploy only)	Default.aspx Global.asax
Settings	☑ Include all databases configured in Package/Publish SQL tab <u>Open Settings</u>	VorthwindIB.edmx
Reference Paths	Include all IIS settings as configured in IIS Manager (used only for IIS Web projects) Open Settings	Web.config
Signing	Include application pool settings used by this Web project	
Code Analysis	Web Deployment Package Settings	
	🕼 Create deployment package as a zip file	
	Location where package will be created:	
	obj\Release\Package\FirstSilverlightAppWeb.zip	
	IIS Web site/application name to use on the destination server:	
	Default Web Site/FirstApp	
	Physical path of Web application on destination server (used only when IIS settings are included):	
	C:\Users\Public\Documents\DevForce 2010\Learning Resources\030_BaseApps\SilverlightApps\Samples\100SLV_Sim	Properties
	Password used to encrypt secure IIS settings:	
	Encryption password is used only if any deployment setting is marked as secure	

Here we're choosing to deploy "Only files needed to run this application". This will include .dlls, .config, .svc, .asax, .aspx and other non-code files.

Step 2 – One-Click Publish Wizard

Once settings have been created you're ready to publish.



Documentation - Walk through: Use Package/Publish with a DevForce Silverlight application

Publish Web	? <mark>×</mark>
Publish profile:	Rename Delete Save
Publish uses settings fro in Project Properties.	m "Package/Publish Web" and "Package/Publish SQL" tabs
Find Web hosting provid	der that supports one-click publish.
Publish	
Build configuration:	Release
Use Build Configurat	ion Manager to change configuration
Publish method:	Web Deploy 🔹
Service URL:	localhost 📀
	e.g. localhost or https://RemoteServer:8172/MsDeploy.axd
Site/application:	Default Web Site/FirstApp 📀
	e.g. Default Web Site/MyApp or MyDomain.com/MyApp
	Mark as IIS application on destination
	Leave extra files on destination (do not delete)
Credentials	
Allow untrusted c	ertificate
ose ans option only	
User name:	
Password:	
	Save password
	Publish Close

Here we're using a simple "one-click" Web deployment to the same computer on which Visual Studio is installed. We've also set the application name to "FirstApp" and asked IIS to mark the virtual directory created as an IIS application.

After hitting the **Publish** button we can check what's been published.

An application folder has been created with the required files:

a distance in	and the second s						x
🚱 🔍 🚽 🕨 Computer 🔸 Local Disk (C	:) • inetpub • wwwroot • FirstApp •				✓ 4 Search FirstApp		٩
Organize 👻 Include in library 👻 Sh	are with 🔻 Burn New folder						(?)
▲]] www.root	^ Name	Date modified	Туре	Size			
Image: Second	hin.	6/5/2010 10·41 AM	File folder				
4 🍌 FirstApp	ClientPin	6/5/2010 10:41 AM	File folder				
📔 bin	Clientoin	0/5/2010 10:41 AM	File folder				
ClientRin	Default.aspx	6/3/2010 11:19 AM	ASP.NET Server Pa	3 KB			
Clientain	Global.asax	6/3/2010 11:19 AM	ASAX File	1 KB			
Image: BacTest Description: BacTest Description: Descr	Web config	6/5/2010 10:41 AM	XML Configuratio	2 KB			
SLApp1	- webledning	0, 5, 2010 10.41 AW	Ame configuratio	2 KD			

Assemblies are in bin:

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🔵 🗢 📙 🕨 Computer 🕨 Local [Disk (C:) 🕨	inetpub ► www.root ► FirstApp ► bin				👻 🍫 Search bin		
anize 👻 Include in library 👻	Share w	ith 🔻 Burn New folder					8≕ ▼	
🛯 퉲 www.root	~	Name	Date modified	Туре	Size			
Image: Second		FirstSilverlightApp.dll	6/5/2010 10:37 AM	DLL File	90 KB			
4 🕌 FirstApp		IdeaBlade.Core.dll	6/3/2010 11:21 AM	DLL File	276 KB			
🍌 bin		IdeaBlade.EntityModel.dll	6/3/2010 11:21 AM	DLL File	468 KB			
UientBin		IdeaBlade.EntityModel.Edm.dll	6/3/2010 11:21 AM	DLL File	97 KB			
GacTest		IdeaBlade.EntityModel.Server.dll	6/3/2010 11:21 AM	DLL File	76 KB			
SLApp1		IdeaBlade.EntityModel.Web.dll	6/3/2010 11:22 AM	DLL File	14 KB			
SLApp2		IdeaBlade.Ling.dll	6/3/2010 11:21 AM	DLL File	80 KB			
SLConsole		IdeaBlade.Validation.dll	6/3/2010 11:21 AM	DLL File	79 KB			
> 🎒 SLWeb		IdeaBlade.Core.xml	6/3/2010 11:21 AM	XML Document	375 KB			
WptApplication1	=	IdeaBlade.EntityModel.Server.xml	6/3/2010 11:21 AM	XML Document	64 KB			
WsTestService		IdeaBlade.EntityModel.Web.xml	6/3/2010 11:22 AM	XML Document	13 KB			
Intel		IdeaBlade.EntityModel.xml	6/3/2010 11:21 AM	XML Document	1,058 KB			
MSOCache		IdeaBlade.Linq.xml	6/3/2010 11:21 AM	XML Document	109 KB			
PertLogs		IdeaBlade.Validation.xml	6/3/2010 11:21 AM	XML Document	213 KB			

The XAP is in ClientBin:

4 퉬 www.root	*	Name	Date modified	Туре	Size	
Image: background b		FirstSilverlightApp.xap	6/5/2010 10:37 AM	XAP File	813 KB	
鷆 bin						
ClientBin						

Step 3 – DevForce Changes

Log file

Note that a log subfolder was not automatically created by the wizard. Unless you've changed the logFile location in your web.config file DevForce will by default try to write its debugLog to the log folder. We can easily create a log folder manually and grant the appropriate permissions.

Computer Local Disk (C:)	inetpub				▼ 49
Organize 🔻 📜 Open 🛛 Include in library	✓ Share with ▼ Burn New folder				
🔰 temp 🖌	Name	Date modified	Туре	Size	
www.root	🐌 bin	6/5/2010 11:24 AM	File folder		
Eirst App	🎉 ClientBin	6/5/2010 11:08 AM	File folder		
hin hin	🍌 log	6/5/2010 11:24 AM	File folder		
Client Din	Default.aspx	6/3/2010 11:19 AM	ASP.NET Server Pa	3 KB	
	Global.asax	6/3/2010 11:19 AM	ASAX File	1 KB	
	🚯 Web.config	6/5/2010 10:41 AM	XML Configuratio	2 KB	

Write permissions are required since the log file will be created and appended to. Here the application runs under the identity of the application pool, *DefaultAppPool*, so we grant this account write permissions to the log folder.

1	Windows Task Ma	anager	-	-		
<u> </u>	e <u>O</u> ptions <u>V</u> iev	w <u>H</u> elp				
A	oplications Proces	ses Services Perform	ance	Networking	Users	
	Image Name	User Name	CPU	Memory (Description	<u> </u>
	WMSvc.exe	LOCAL SERVICE	00	688 K	IIS Manager Service	
	wmpnetwk.exe	NETWORK SERVICE	00	3,716 K	Windows Media Pla	=
	WmiPrvSE.ex	SYSTEM	00	1,984 K	WMI Provider Host	
	WmiPrvSE.ex	SYSTEM	00	2,176 K	WMI Provider Host	
	WmiPrvSE.exe	NETWORK SERVICE	00	2,408 K	WMI Provider Host	
	winlogon.exe	SYSTEM	00	1,408 K	Windows Logon Ap	
	winipit evo	OVOTEM	00	708 K	Windows Start-Up	
	WakeUpAgt.e	SYSTEM	00	1,724 K	Proxy agent servic	
	w3wp.exe	DefaultAppPool	00	6,056 K	IIS Worker Process	
	And the second se		00	2 04414	Mindaus Task Mass	



See the security topic for information on securing the log file and folder.

Cleanup

You may have noticed the .xml files in the bin folder. These are Intellisense files for the DevForce assemblies and are not needed at run time. You can delete them.

You can also extend the web publishing pipeline to remove these files from the package. See the resources below for more information.

Next Steps

Creating a Deployment Package

You can also use Visual Studio to create a deployment package.

\triangleright	đ	FirstSilverlightApp	0	
4	É,	FirstSilverlightA	(2 44)	Build
	\triangleright	Properties		
	\triangleright	References		Rebuild
	\triangleright	🛅 bin		Clean
	\triangleright	🚞 ClientBin	3	Build Deployment Package
	⊳	🛅 log	2	Publish
	\triangleright	obj		Package/Dublish Settings
		🛅 Default.aspx	-	Package/ Publish Settings
		EntityRelation		Run Code Analysis
		FirstSilverlight	2	View in Browser
		🔬 Global.asax		Convert to Web Application
		🍓 NorthwindIB.(0	Charle Accessibility
	⊿	NorthwindIB.	~	Check Accessibility
		험 Northwine		Calculate Code Metrics
		🖄 Northwine	C .**	Open Command Prompt
		Silverlight.js	CNS	Transform Tomoleter
		📑 Web.config	93	Transform Templates

Visual Studio will create a package, along with a sample script and other files:

Name	Date modified	Туре	Size
📔 PackageTmp	6/17/2010 3:18 PM	File folder	
FirstSilverlightAppWeb.deploy.cmd	6/17/2010 3:20 PM	Windows Comma	11 KB
FirstSilverlightAppWeb.deploy-readme.txt	6/17/2010 3:20 PM	Text Document	4 KB
FirstSilverlightAppWeb.SetParameters.xml	6/17/2010 3:20 PM	XML Document	1 KB
FirstSilverlightAppWeb.SourceManifest.xml	6/17/2010 3:20 PM	XML Document	1 KB
펥 FirstSilverlightAppWeb.zip	6/17/2010 3:20 PM	WinZip File	2,304 KB

The package can then be deployed via the command line with Web Deploy (MSDeploy) or imported directly into IIS Manager.

Resources

- How to: Deploy a Web Application Project Using One-Click Publish and Web Deploy
- <u>Automating Deployment with Microsoft Web Deploy</u>
- Deploying Services with Web Deploy
- Web Packaging: Installing Web Packages using Command Line