2011



USER GUIDE

Deployment

This article will provide instructions on how to deploy your *Code On Time* application to a server. Our examples use the *Northwind* sample database and a *Windows Virtual Private Server* from <u>www.AccuWebHosting.com</u>.

Acquiring a Server

If you would like a web server of your own, but don't want to deal with complicated server setup, we suggest purchasing from AccuWebHosting. The *WebMaster VPS – Opal* plan gives you a sufficiently powerful VPS, with 1 GB of RAM, 40 GB of storage, and *SQL Server 2008 Express* preinstalled, for only \$27 a month. Compare prices at <u>www.AccuWebHosting.com</u>. When you have selected your preferred option, press *SIGN UP*, accept the user agreement, and enter your domain information.

Billing Cycle: \$	27.00 USD Monthly					
Configure Server						
Hostname:	eg. server1(.yourdomain.com)					
NS1 Prefix:	eg. ns1(.yourdomain.com)					
NS2 Prefix:	eg. ns2(.yourdomain.com)					
Root Password						

Next, you will need to configure the correct options. Make sure to select *Windows 2008 R2 Standard Edition – 64 bit* operating system, with *SQL 2008 Express Edition (R2)* database.

Configurable Options	
This product/service has son customise your order.	ne options which you can choose from below to
Operating System:	Windows 2008 R2 Standard Edition - 64 bit 💌
Backup Service:	Backup Your VPS \$40.00 USD
SQL Database (Not Recommended With Starter VPS):	SQL 2008 Express Edition (R2) - Free
WebsitePanel (Not Recommended With Starter VPS):	Installation & Configuration (Free)
I want SmarterMail 7.x:	Installation & Configuration (Free)
Additional IP Address:	No Additional IP Address
Additional RAM:	No Additional RAM
Additional Bandwidth:	No Additional Bandwidth
Additional Disk Space:	No Additional Disk Space
Managed Services:	Self-Managed VPS
	Update Cart
	Language: English

Continue making your purchase. A few hours after confirming your order, an email will be sent to you with connection information for your server.

Connect To Server

Now that you have obtained a server and the connection information, you will need to connect to it using *Remote Desktop Connection*. Press *Start*, and enter "Remote Desktop Connection" in the search bar.

Programs (1) Remote Desktop Connection Control Panel (2) RemoteApp and Desktop Connections Set up a new connection with RemoteApp and Desktop Conne
Documents (1) Solution Default.rdp
₽ See more results
Remote Desktop Connection × Shut down +

Run *Remote Desktop Connection*, and enter your server name. This should be provided in the email sent to you from AccuWebHosting.com.

🛼 Remote D	esktop Connection	X	
	Remote Desktop Connection		
<u>C</u> omputer:	server	•	
User name:	None specified		
You will be as	sked for credentials when you cor	nnect.	
Options		Connect Help	

Press Connect, and you will be required to log in. Enter your username and password.

Windows Security	× •
Enter your of These credenti	credentials als will be used to connect to vps.codeontime.net.
	Administrator
	Use another account
🔲 Reme	mber my credentials
	OK Cancel

You will now be connected to your server.

Check for .NET 4.0

When you log in, press Start, and click on Microsoft Web Platform Installer.



Switch to the *Products* tab at the top, and look for *Microsoft* .*NET Framework* 4. If it is listed as installed, then move to the next section.

🕽 Web Platform Installer 3.0						
Spotlight Pr	oducts	Applications			م	
All	NET AND	Name ASP.NET MVC 3 Tools Update		Released 4/11/2011	Install Add	
Frameworks	ana ann an statairte	Visual Web Developer Express 2010 SP:	L	3/10/2011	Add	
📄 Database 👔 Tools		SQL Server Express 2008 R2		5/17/2010	Installed	
		Microsoft® SQL Server® Compact 4.0		10/15/2010	Add	
	<u>e</u>	IIS 7 Recommended Configuration		11/9/2010	Installed	
	8	IIS 7.5 Express		4/11/2011	Add	
	e	Web Deployment Tool 2.1		4/11/2011	Installed	
	N	Microsoft .NET Framework 4		4/12/2010	Installed	
	20	Web Farm Framework 2.0		1/20/2011	Add	
	php	PHP 5.3.6		3/22/2011	Add	
0 Items to be insta	illed		<u>Options</u>	Install	<u>E</u> xit	

If it is not listed as installed, you will need to install it by pressing Add, and then Install.

Install Northwind Database

The first step to creating any database application is to have a database. If you have a database on your server already, then you may skip this section. Download the Northwind database at

http://www.microsoft.com/downloads/en/details.aspx?FamilyID=06616212-0356-46a0-8da2-

<u>eebc53a68034</u>. Run the installation file, and it will unpack all the scripts into a folder.

						x
😋 💭 🗸 🗼 🕨 Computer 🕨 Local Disk (C	:) 🕨	SQL Server 2000 Sample Databases	- - 4 9	Search SQL Server 2	2000 Sample Data	ıb 🔎
Organize 🔻 Include in library 👻 Sh	are w	vith 🔻 Burn New folder			= • 1	0
E Pictures	*	Name	Date modified	Туре	Size	
(P) Podcasts		📄 instnwnd.sql	2/4/2004 7:45 AM	Microsoft SQL Ser	2,066 KB	
Videos		📄 instpubs.sql	3/23/2004 9:50 AM	Microsoft SQL Ser	126 KB	
	=	📴 NORTHWND.LDF	12/13/2004 3:14 PM	SQL Server Databa	1,024 KB	
Homegroup		INORTHWND.MDF	12/13/2004 3:14 PM	SQL Server Databa	2,688 KB	
Computer		📴 PUBS.MDF	12/13/2004 3:14 PM	SQL Server Databa	1,280 KB	
A Local Dick (Cr)		PUBS_LOG.LDF	12/13/2004 3:14 PM	SQL Server Databa	768 KB	
Dear Disk (c.) 7e3968083de3f0d24ac99f5ef231bb		ReadMe_SQL2000SampleDbScripts.htm	3/23/2004 9:50 AM	Chrome HTML Do	61 KB	
175d2dfea0c8cc3226bce493c7193357	Ŧ					
7 items						

Next, you will need to connect to your database. Open *SQL Server Management Studio* and enter your login credentials.

K Microsoft SQL Server Management Studio	
File Edit View Tools Window Community Help	
🗄 🛄 New Query 🛛 🕞 🕞 🔛 🎯 🖉 💂	
Object Explorer 🗸 🕂 🗙	
Connect • 🛃 👯 🔳 🍸 💽 🍒	
Connect to	Server 🗾
Mic	rosoft*
S	OL Server 2008
Server type:	Database Engine
Server name:	Server V
<u>Authentication:</u>	SQL Server Authentication
Login:	sa • • • • • • • • • • • • • • • • • • •
<u>P</u> assword:	Remember password
	Connect Cancel Help Options >>
Ready	

Connect, and press *File | Open | File.* Select the *instnwnd.sql* file that was installed onto your computer, and press *Execute*.



When the query finishes, you will have the Northwind database on your server.

Create ASP.NET Membership

If you want to use *ASP.NET Membership* for your application, you will need to follow these steps. If you have your own membership database, skip this section and enter the membership database connection string when prompted in Code On Time Generator.

1. Start *aspnet_regsql.exe* from *Windows Explorer* as shown in picture.

😋 🔵 🗢 📗 « Windows 🕨 Micro	soft.NET Framework v4.0.30319	• • •	Search v4.0.30319		Q
Organize 🔻 🖻 Open 💌 B	urn New folder			= -	2
퉬 Help 🔷	Name	Date modified	Туре	Size	-
ime	InstallUtil.exe	3/18/2010 1:16 PM	Application	28 KB	
inf	📧 ilasm.exe	3/18/2010 4:47 PM	Application	288 KB	
L2Schemas	📧 EdmGen.exe	3/18/2010 4:47 PM	Application	83 KB	
LiveKernelReports	💷 dfsvc.exe	3/18/2010 1:16 PM	Application	12 KB	
logs 🕌	DataSvcUtil.exe	3/18/2010 4:47 PM	Application	59 KB	
🍌 Media	Cvtres.exe	3/18/2010 1:16 PM	Application	31 KB	
Microsoft.NET	📧 csc.exe	3/18/2010 1:16 PM	Application	1,927 KB	
assembly	ComSvcConfig.exe	3/18/2010 4:47 PM	Application	160 KB	
i authman	CasPol.exe	3/18/2010 1:16 PM	Application	93 KB	
DirectX for Manager =	📧 aspnet_wp.exe	3/18/2010 4:47 PM	Application	32 KB	
Framework	📧 aspnet_state.exe	3/18/2010 4:47 PM	Application	35 KB	
URTInstallPath_GA	aspnet_regsql.exe	3/18/2010 4:47 PM	Application	101 KB	
v1.0.3705	aspnet_regiis.exe	3/18/2010 4:47 PM	Application	30 KB	
v1.1.4322	aspnet_regbrowsers.exe	3/18/2010 4:47 PM	Application	20 KB	
v2.0.50727	aspnet_compiler.exe	3/18/2010 4:47 PM	Application	30 KB	
🧰 v3.0	AppLaunch.exe	3/18/2010 1:16 PM	Application	104 KB	
₩ v3.5	AddInUtil.exe	3/18/2010 1:16 PM	Application	29 KB	
₩ v4.0.30319	AddInProcess32.exe	3/18/2010 1:16 PM	Application	29 KB	Ξ
🕌 Framework64 🛫	AddInProcess.exe	3/18/2010 1:16 PM	Application	29 KB	-

The path to your instance of *aspnet_regsql.exe*:

C:\%windir%\Microsoft.NET\Framework\<versionNumber>\aspnet_regsql.exe

2. Click the *Next* button in *ASP.NET SQL Server Setup Wizard*:

ASP.NET SQL Server Setup Wizard	
Welcome to the ASP.NET SQL Server Setup Wizard	
This wizard creates or configures a SQL Server database that stores information for ASP.NE services (membership, profiles, role management, personalization and SQL Web event pro	T applications wider).
To configure the database for these features individually or for additional features such as so SQL cache dependency, run aspnet_regsql at the command line. For help with command line the "-?" switch.	ession state or e options, use
Click Next to continue.	
< <u>P</u> revious <u>N</u> ext > <u>F</u> inish	Cancel

3. Continue to the next step to configure *SQL Server* for application services:

ASP.NET SQL Server Setup Wizard	
Select a Setup Option	
What database task do you want to perform?	
Onfigure SQL Server for application services	
This option runs a script that creates a new database or configures an existing databas information for ASP.NET membership, profiles, role management, personalization and event provider.	e to store SQL Web
\bigcirc <u>R</u> emove application services information from an existing database	
This option removes information about ASP.NET membership, profiles, role manageme personalization and SQL Web event provider from the database. Note: This process ca undone.	nt, Innot be
Note: To configure the database for additional features such as session state or SQL cache depen aspnet_regsql at the command line. For help with command line options, use the "-?" switch.	dency, run
< <u>Previous</u> <u>N</u> ext > <u>Einish</u>	Cancel

4. Enter your server name, credentials, and database.

SP.NET SQL	Server Setup Wizard		×
SQL Sel	ect the Server and Database		
Specify the SQL connecting to the	Server name, database name to create or remove, and the credentials to us e database.	e when	
Note:	The credentials must identify a user account that has permissions to create database.	or remove	а
<u>S</u> erver:			
⊙ <u>W</u> indows aut	hentication		
⊖ S <u>Q</u> L Server a	authentication		
<u>U</u> ser name:			
P <u>a</u> ssword:			
<u>D</u> atabase:	aspnetdb		
	< <u>Previous</u> <u>N</u> ext > <u>Finish</u>	Cano	el

Press *Next* a few more times, and the database will have been modified to accept membership.

Create a Code On Time Application

Now it's time to create an application. Run *Code On Time Generator*, and create a new *Web Site* or *Web App Factory* project. We gave it the name of "NW1". Provide a connection string to your server.

SQL Server Connection - Code OnTime					_ D _ X
Please specify SOL Server name and database				YouTube Bk http://www	og Community v.codeontime.com
SQL Server Connection					
Server:					
 Windows authentication SQL Server authentication 					
User name: sa Password:					
Northwind					
			Test	ОК	Cancel
5/15/2011 1:33:34 PM ===================================	ode On Time\Projects\We	eb Site Factory\NW1"			^ +

If you choose to enable reporting, your server must have *Report Viewer 2010 Redistributable Package* installed. It is available at <u>http://www.microsoft.com/downloads/en/details.aspx?FamilyID=a941c6b2-64dd-4d03-9ca7-4017a0d164fd</u>.



Enable *ASP.NET Membership* for your application by checking the first checkbox. Enable *standalone database* by checking the last checkbox in the list, and provide a connection string to your membership enabled database.



Compress the Application

You will now need to compress the application into a .zip folder. Read the correct section for the correct type of application that you created.

Web Site Factory

Continue clicking *Next* until your application generates. Press *Open* next to the name of the generated application.

🕑 Welcome - Code OnTime	
	YouTube Blog Community http://www.codeontime.com
Activation	
You are using Code OnTime Generator for Microsoft.NET. A collection of code generation projects is included. Some of the project features require an activation code. Activation code Serge-2009 is registered.	=
My Projects	Visual Basic 🔻
This is the list of the projects that you have created. Click on the project name to open and generate the project one more time. Note that most projects will automatically backup the previous version of the source code prior to generating and overwriting the existing files. # Project Name Type Last Modified Actions 1. NW1 Web Site Factory 5/15/2011 2:41 PM open, browse © Create new web application. Open the "NW1" project source code ■ Download User Guide and Cookbook. Request help with your project. ■ Buy our consulting services online.	Search Discuss Ading image to grid row depending on field values Sunday, May 15, 2011 2:48 PM Mike Prager Sunday, May 15, 2011 2:48 PM Mike Prager Image: Sunday, May 15, 2011 2:48 PM Mike Prager How is it possible to add an image to a row of a grid and the image is dependant on the value of field in that row? Image: Sunday, Image to a row of a grid and the image is dependant on the value of field in that row? e.g. I have a status field that can be 1, 2, 3 and dependant on this, I want to show a different image in the first field Image: Sunday May 10, 2011 2:48 PM Mike Prager Many thanks in advance Total Sunday May 10, 2011 2:48 PM Mike Prager Total Sunday PM Mike Prager
5/15/2011 4:14:33 PM load path="[Documents]\Code On Time\Projects\Web Site Factory\NW1" 5/15/2011 4:14:33 PM if test="notifile/@name=DataAquarium.Project.xml")"	• •

Select all of the files in the opened folder, right click, and press Send To / Compressed (zipped) Folder.

								. 🗆	x
💮 🕞 📲 « My Documents 🕨 Code (DnTime	≘ ► Pro	jects ► Web Site Factory ► NW1 ►		•	Search NW1			٩
Organize 🔻 😭 Open Share with	•	E-mail	Burn New folder						0
Code OnTime	*	Name	A	Date mod	lified	Туре	Size		-
Backups			Scan with Microsoft Security Essentia	E /1 E /2011	-2-40 P	M File folder			E
Projects			Share with		40 P	M File folder M File folder			
Web App Factory			PowerISO	1	40 P	M File folder			
Web Site Factory		-	Cut			Desktop (create shortcut)	Jer		
App_Code			Сору			Documents Fax recipient			
Bin	-		Create shortcut			Mail recipient			-
27 items selected			Rename		S	Skype DVD RW Drive (D:)			
Show more details			Properties		-	Removable Disk (G:)			

Give the .zip file a name of your choice, and compress your files.

Web App Factory

Continue clicking *Next* until your application generates. Click *Develop* next to the project you have generated.



We will need to publish the application before we can compress it. Right click on *WebApp/Default.aspx* and press *Set as Start Page*.



Now click on *Build*, and press *Publish WebApp*.

👓 MyCompany - Microsoft Visu	ual Studio	
<u>File Edit View Project Bu</u>	uild Debug Team Data Iools Architecture Test Analyze Window Help	
🛛 🗞 - 🛅 - 💕 🚽 🖉 🗖 👑	🖞 Build Solution Ctrl+Shift+B 💡 🍘 username 🗣 🔐 🔤	
Publish: Create Publish Se	Rebuild Solution	
	Clean Solution	
	Build WebApp	Solution Explorer + X
oolb	Rebuild WebApp	
x	Clea <u>n</u> WebApp	MyCompany (3 projects)
	Publis <u>h</u> WebApp	My Project
	Run Code <u>A</u> nalysis on WebApp	Controllers
	Configuration Manager	Data
-		Pandlers Reports
		Scripts
		D Security
		Services
		Ineme
		A Sandhox
		DAF
		Help
		📴 Default.aspx
		Global.asax
		Membership.aspx
		MehAnn
		My Project
Output		App_Themes
Show output from: Build	- [] [] [] [] [] [] [] [] [] [Controls
Build has been cance	eled.	DAF
		Default aspy
		Global.asax
		Main.master
		🚯 web.config
		🚵 Web.Sitemap
4		🖏 Sol 🏹 Tea 💐 Ser 🤒 Cla
🗟 Error List		
Ready		

Switch *Publish Method* to "File System", and enter a directory you would like to publish the application to.

Publish Web	? ×
Publis <u>h</u> profile: Profile1	■ ■
Publish uses settings from in Project Properties.	m "Package/Publish Web" and "Package/Publish SQL" tabs
- Publish	er that supports one-click publish.
Build configuration:	Debug
Use Build Configurat	ion Manager to change configuration
Publish <u>m</u> ethod:	File System 🔹
Target <u>L</u> ocation:	C:\Users\Dennis Bykkov\Documents\CoT Files\No
	Replace matching <u>files</u> with local copies
	Delete <u>all</u> existing files prior to publish
	Publish Close

Press *Publish*, and wait until the application is fully published. When complete, navigate to the target location, right click on the contents of the folder, and press *Send To | Compressed Folder*.

								_ 0	x
My Documents 🕨 Code	e OnTime	► Pro	ijects ▶ Web Site Factory ▶ NW1 ▶		•	Search NW1		_	٩
Organize 🔻 😭 Open Share with	n ▼ E	-mail	Burn New folder						0
🖟 Code OnTime	*	Name	×	Date modi	fied	Туре	Size		-
📕 Backups			Scan with Microsoft Security Essentia	E/1E/2011	2-40 P	M File folder			E
Projects			Share with	•	40 P	M File folder M File folder			
Web App Factory			PowerISO	+	40 P	M File folder		_	
📔 Web Site Factory	_		Send to	+		Compressed (zipped) fold	er		
Are Theres	-		Cut Copy			Desktop (create shortcut) Documents			
Bin	-		Create shortcut Delete			Mail recipient			+
27 items selected Show more details			Rename		4	DVD RW Drive (D:)			
			Properties		-	Removable Disk (G:)			

Give the *.zip* file a name of your choice, and compress your files. Right click the compressed file and press *Copy*.

Copy Files to Server

Switch back to your server remote desktop connection and navigate to *C:\inetpub\wwwroot*, the default web site storage location. Paste your *.zip* file.

🕌 wwwroot				_ 🗆 ×
😋 🕞 🗢 📕 🗸 Computer	Local Disk (C:) inetpub wwwroot	👻 🐼 Sea	rch wwwroot	<u> </u>
Organize 🔻 湇 Open 🔻	New folder			- 🔳 🔞
🚖 Favorites	Name ^	Date modified	Туре	Size
🧮 Desktop	퉬 aspnet_client	8/14/2010 2:10 AM	File folder	
Downloads	\mu phpMyAdmin	10/13/2010 5:41 AM	File folder	
🕍 Recent Places	🥭 iisstart	8/14/2010 2:09 AM	HTML Document	1 KB
詞 Libraries	🔒 Northwind	5/15/2011 5:26 PM	Compressed (zippe	2,071 KB
Documents	phpinfo.php	8/14/2010 3:14 AM	PHP File	1 KB
🎝 Music	📭 welcome	8/14/2010 2:09 AM	PNG image	181 KB
Pictures				
Videos				
💻 Computer				
🚢 Local Disk (C:)				
🙀 Network				
Northwind	Date modified: 5/15/2011 5:26 PM	Date created: 5/15/2011 !	5:27 PM	
Compressed (zipp	eu) roider Dize; 2.02 Mb			

Right click on your *.zip* file and press *Extract All*. Extract your files to the \wwwroot\ folder.

🕌 Ext	tract Compressed (Zipped) Folders		×
\bigcirc	👍 Extract Compressed (Zipped) Folders		
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	C:\inetpub\www.root\	B <u>r</u> owse	
	▼ S <u>h</u> ow extracted files when complete		
		<u>E</u> xtract Car	ncel

Make sure that all the files are in \wwwroot\Northwind. Now you will need to open Internet Information Services (IIS) Manager. Expand to [YourServer]\Sites\Default Web Site\Northwind. Right click and press Convert to Application.



In the Add Application window, press Select... next to Application Pool. Choose ASP.NET 4.0 (Integrated).

锋 Internet Information	Services (IIS) Manager	_ 🗆 ×
O No	7ACCU1195 ▶ Sites ▶ Default Web Site ▶ Northwind ▶	🗾 🕶 🖂 🔐 🕶
File View Help		
Connections		7
🗶 - 🗔 👔 🕵 🖥	Add Application	
Application Pools	Site name: Default Web Site Path: /	missions
🖻 🏀 Default Web Site	Alian Application pools	e Folder
aspnet_client	Allas: Application pool:	*:80 (http)
terning App_Then	Example: sales Select Application Pool	? ×
E	Physical path: Criticetoub/www.woot/Northwind Application pool:	
E Eages	Pass-through authentication Asp-NET 4.0 (Integrated	d) 🔽
Reports Gripts Gripts	Connect as Test Settings Net Framework Version Pipeline mode: Integrat	n: 4.0 .ed
E 😜 phpMyAdmin		
E Smartermail E Swartermail E	prise Ser	OK Cancel
😟 😔 WebsitePanel Porta	Features View	

Press *OK*, then *OK* again. Your application will now be up and running. When changes are made to your application on your computer, delete the old application from the server and copy the new one in its place.

Changing the Connection String after Deployment

It is common practice to use a local SQL server instance to build and test their application. If you do this, you must change the connection string after you deploy to the server. This can be done through *the IIS Manager* on the server. Select your application from the list of web sites, and click on *Connection Strings*. From there, the strings can be changed to the server's database.

