

## WebMatrix

**WebMatrix** is a free web development tool from Microsoft that includes everything you need for website development. Start from open source web applications, built-in web templates or just start writing code yourself. It's all-inclusive, simple and best of all free. Developing websites has never been easier.

### **Create your website**

To get started creating websites, just download and install WebMatrix using the Microsoft Web Platform Installer. You'll be up and running less than 5 minutes! Once WebMatrix is installed, we make it simple to get and install the latest version of your favorite free web applications such as WordPress, Joomla!, DotNetNuke and Orchard.

### **Customize your website**

Once you're up and running, you will find that WebMatrix provides all the tools features you'll need in a single unified interface. Say good-bye to switching between multiple applications just to perform common web development tasks. With WebMatrix, you're always just a click away from easily editing your files, managing your database and modifying your server settings.

### **Publish your website**

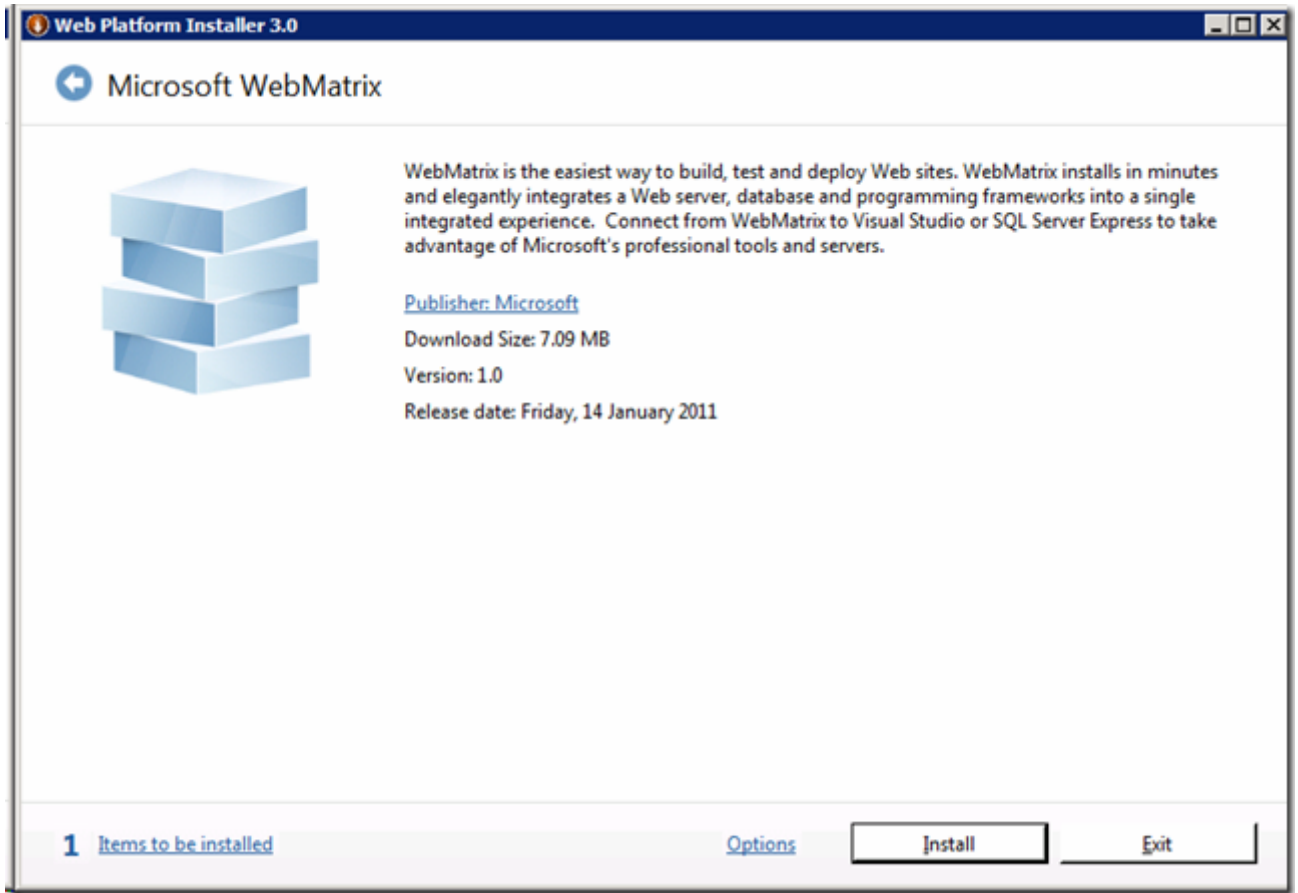
When you're ready, WebMatrix provides a no-hassle way to show the world your website. Just access our hosting gallery from WebMatrix and you'll find a hosting provider that is guaranteed to run your site smoothly while also allowing you to publish directly from WebMatrix.

## **Installing WebMatrix**

System Requirements: Supported operating systems are Windows XP, Windows Server 2003 SP1+, Windows Server 2008, windows Server 2008 R2. Windows 7, Windows Vista, and Windows Vista SP1

Visit <http://www.microsoft.com/web/webmatrix/> and click the link to download WebMatrix

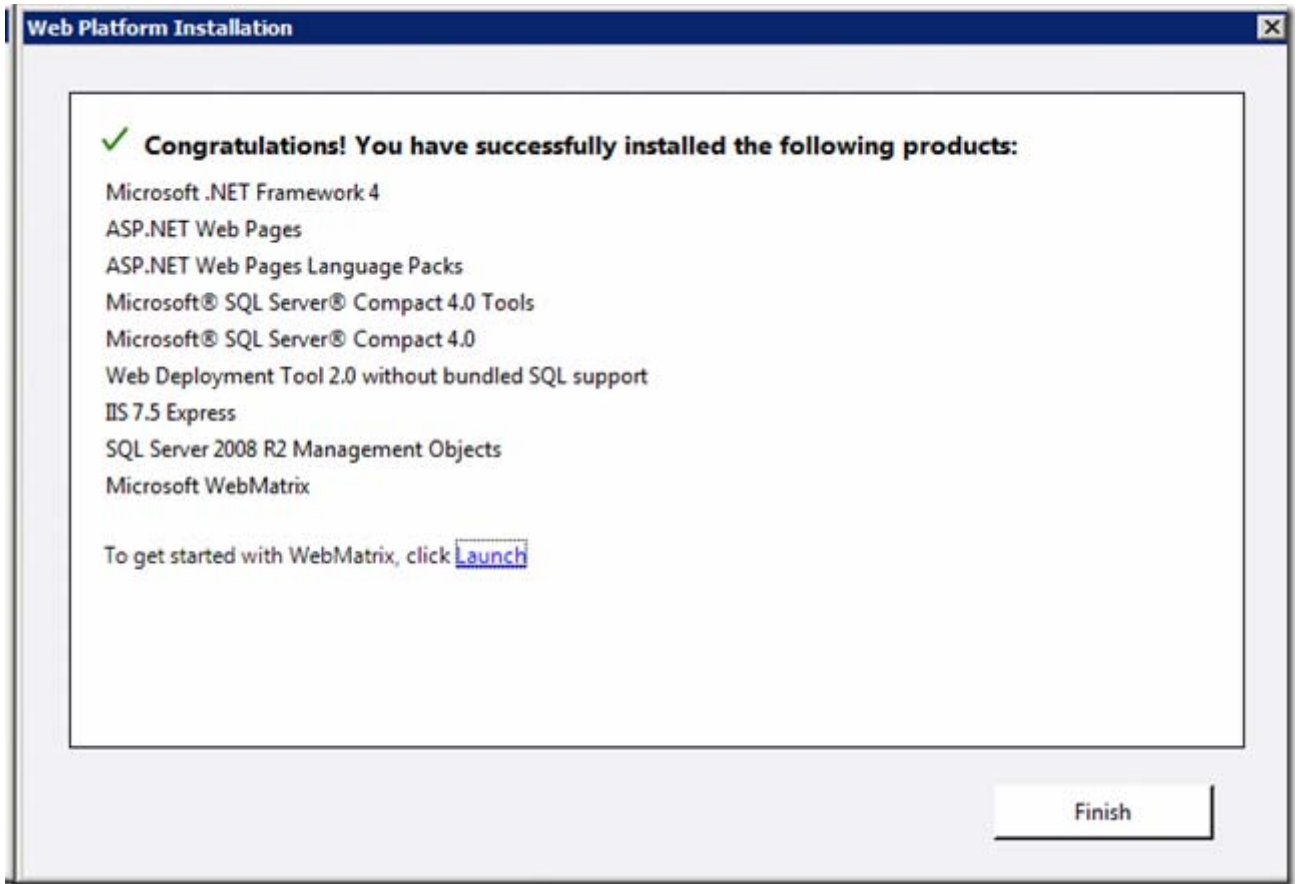
The Web Platform Installer will begin the installation of WebMatrix. click **Install**.



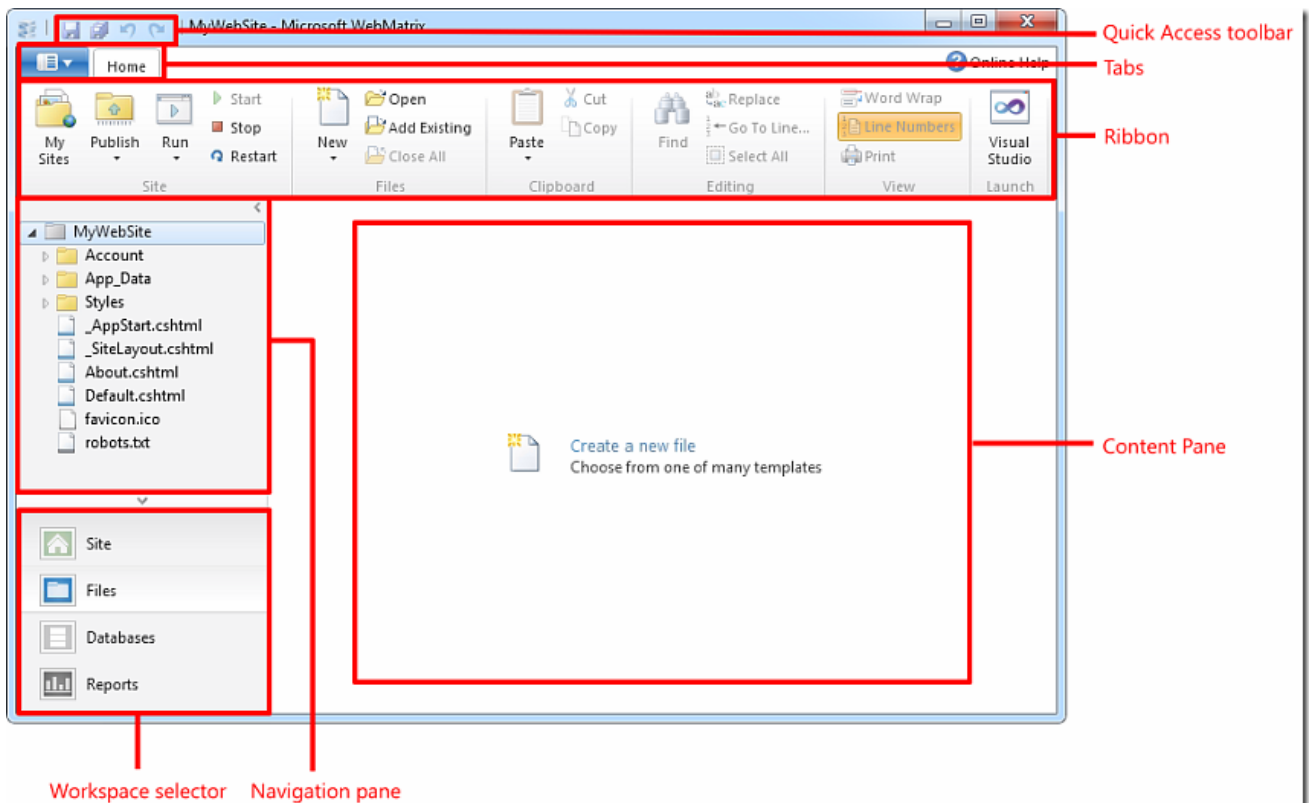
The Web Platform installer will install the following components and dependencies

1. Microsoft Web Matrix
2. Microsoft .NET Framework 4
3. Microsoft SQL Server Compact 4.0
4. Microsoft SQL Server Compact 4.0 Tools
5. ASP.NET Web Pages
6. ASP.NET Web Pages Language Packs
7. Web Deployment Tool 2.0 without bundles SQL support
8. IIS 7.5 Express

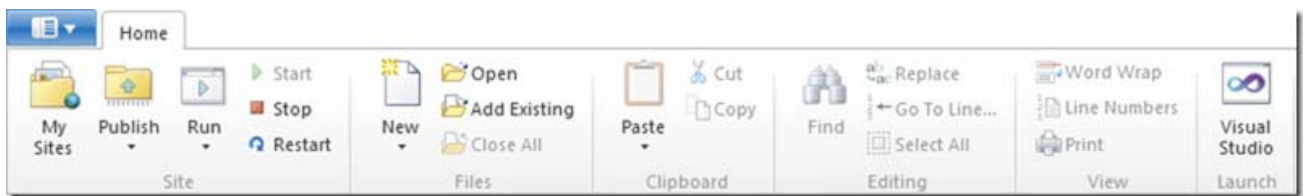
Clickt **Next**, and shortly afterwards you're ready to go:



## WebMatrix Files Workspace Help



## Files Ribbon



UI	Description
<b>My Sites</b>	Lists existing websites that you can open.
<b>Publish</b>	Lets you configure settings for publishing the website.
<b>Run</b>	Runs the website or the currently selected file in the browser.
<b>Start</b>	Starts IIS Express.
<b>Stop</b>	Stops IIS Express.

<b>Restart</b>	Stops IIS Express and releases resources, and then restarts IIS Express.
<b>New</b>	Creates a new file or folder within the website.
<b>Open</b>	Opens an existing file in the content pane. This file does not have to be in the website directory.
<b>Add Existing</b>	Lets you copy files into the website.
<b>Close All</b>	Closes all open files.
<b>Visual Studio</b>	Launches the website as a Visual Studio project. This prompts you to install Visual Web Developer Express if Visual Studio is not installed.

### Managing Files and Folders

<b>Task</b>	<b>Action</b>
Create a new file	Click <b>New</b> in the ribbon and select the file type.
Create a new web page	Click <b>New</b> in the ribbon and select a web page file type, such as CSHTML. For more information, see <a href="#">Creating a Web Page</a> .
Open a file	Double-click the file.
Save a file	Select the file and click the <b>Save</b> icon in the <b>Quick Access toolbar</b> .
Delete a file	Right-click the file and select <b>Delete</b> .
Add an existing file	Click <b>Add Existing</b> in the ribbon, browse to the file, and then click <b>Open</b> . This action copies the file into your website directory.
Copy and paste a file or folder	Select the file or folder and then click <b>Copy</b> in the ribbon. To paste, select the new location in your website folder structure, and then click <b>Paste</b> in the ribbon.
Rename a file or folder	Right-click the file or folder, select <b>Rename</b> , and then enter the new name. Press Enter or change focus to commit the new name.

Create a new folder	Click the drop-down arrow under <b>New</b> in the ribbon, select <b>New Folder</b> , and then enter the name.
Delete a folder	Right-click the folder and select <b>Delete</b> .
Refresh the file list. (Do this if files have been added outside of WebMatrix.)	Right-click the folder and select <b>Refresh</b> .
Open a file that's not in the website folder	Click <b>Open</b> in the ribbon, browse to the file, and then click <b>Open</b> . This action does not copy the file to the website.
Run the website using the default browser	Select the root website folder and click <b>Run</b> in the ribbon. This action requires that the website contain a default file. For more information, see <a href="#">Customizing Site-Wide Behavior</a> .
Run a specific file	Select the file to run and click <b>Run</b> in the ribbon.
Run the website in a specific browser	Select the root website folder, click the drop-down list under <b>Run</b> in the ribbon, and then click the browser name.
Publish a website	Click <b>Publish</b> in the ribbon. For more information, see <a href="#">How to Publish a Web Application Using WebMatrix</a> .
Open an existing website	Click <b>My Sites</b> in the ribbon, select the website to open, and then click <b>OK</b> .
Start IIS Express	Click <b>Start</b> in the ribbon.
Stop IIS Express	Click <b>Stop</b> in the ribbon.
Restart IIS Express	Click <b>Restart</b> in the ribbon.

## Editing Files

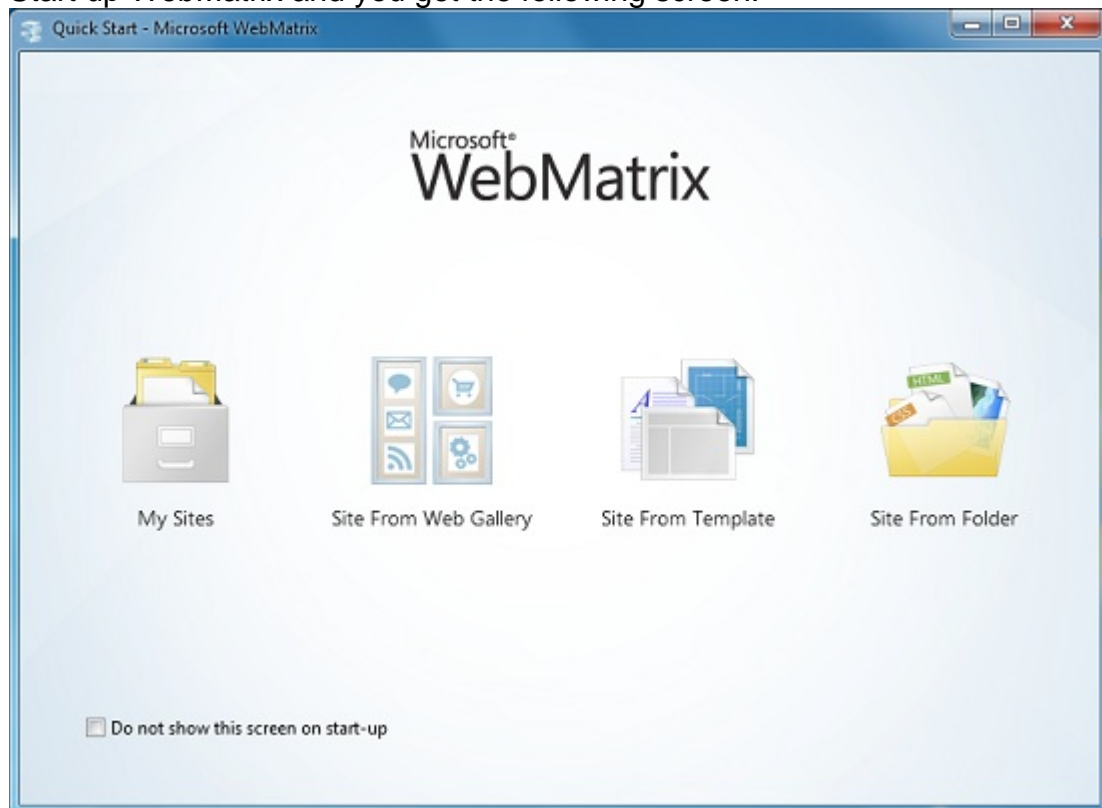
Task	Action
Search for text in a file	Open the file and click <b>Find</b> in the ribbon. In the pane above the file, enter the text to search and then

	click <b>Previous</b> or <b>Next</b> .
Find and replace code in a file	Open the file and click <b>Replace</b> in the ribbon. In the pane above the file, enter the text to search and to replace. Click <b>Previous</b> or <b>Next</b> to find text, and click <b>Replace</b> or <b>Replace All</b> to change the text.
Open a website in Visual Studio or Visual Web Developer. This lets you use Visual Studio features when creating your website, such as the debugger. For more information, see <a href="#">Programming ASP.NET Razor Pages in Visual Studio</a> .	Click <b>Visual Studio</b> in the ribbon.

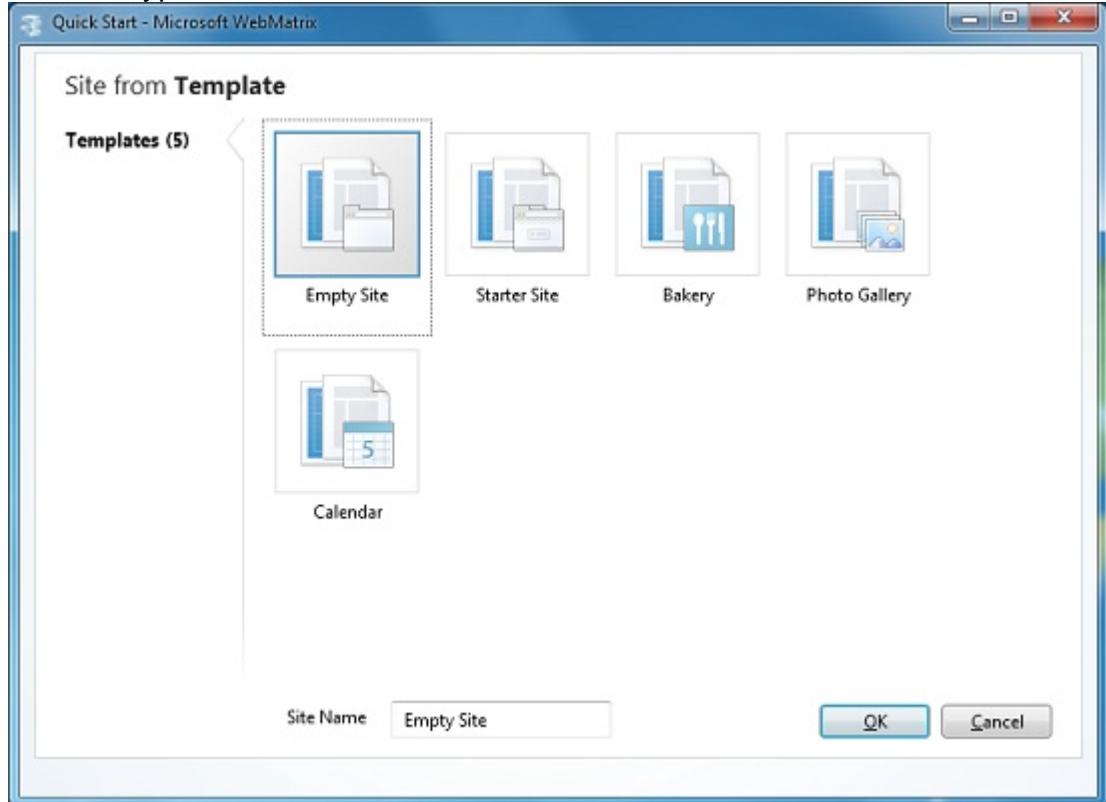
## Building Your First WebMatrix Application

To begin, you'll create a new website and a simple web page.

1. Start up WebMatrix and you get the following screen:



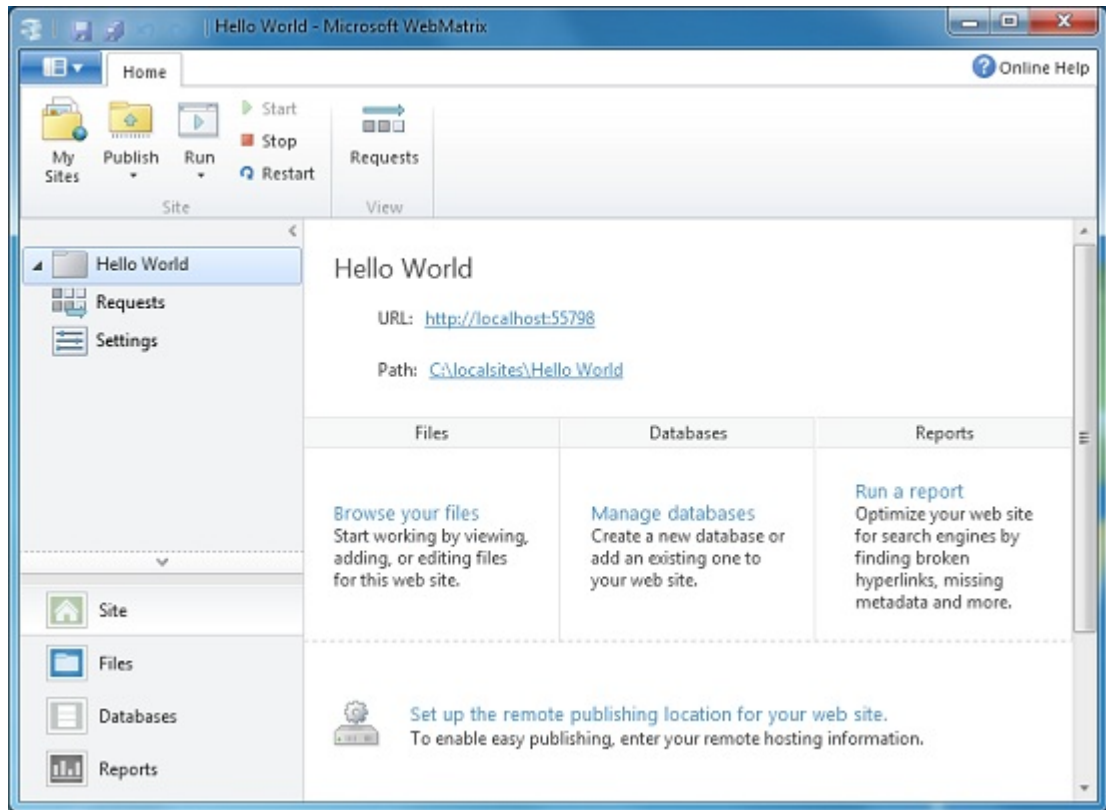
2. Click **Site From Template**. Templates include prebuilt files and pages for different types of websites.



3. Select **Empty Site** and name the new site *Hello World*.
4. Click **OK**. WebMatrix creates and opens the new site.

At the top, you see a Quick Access Toolbar and a ribbon, as in Microsoft Office 2010. At the bottom left, you see the workspace selector, which contains buttons that determine what appears above them in the left pane. On the right is the content pane, which is where you view reports, edit files, and so on. Finally, across the bottom is the notification bar, which displays messages as needed.

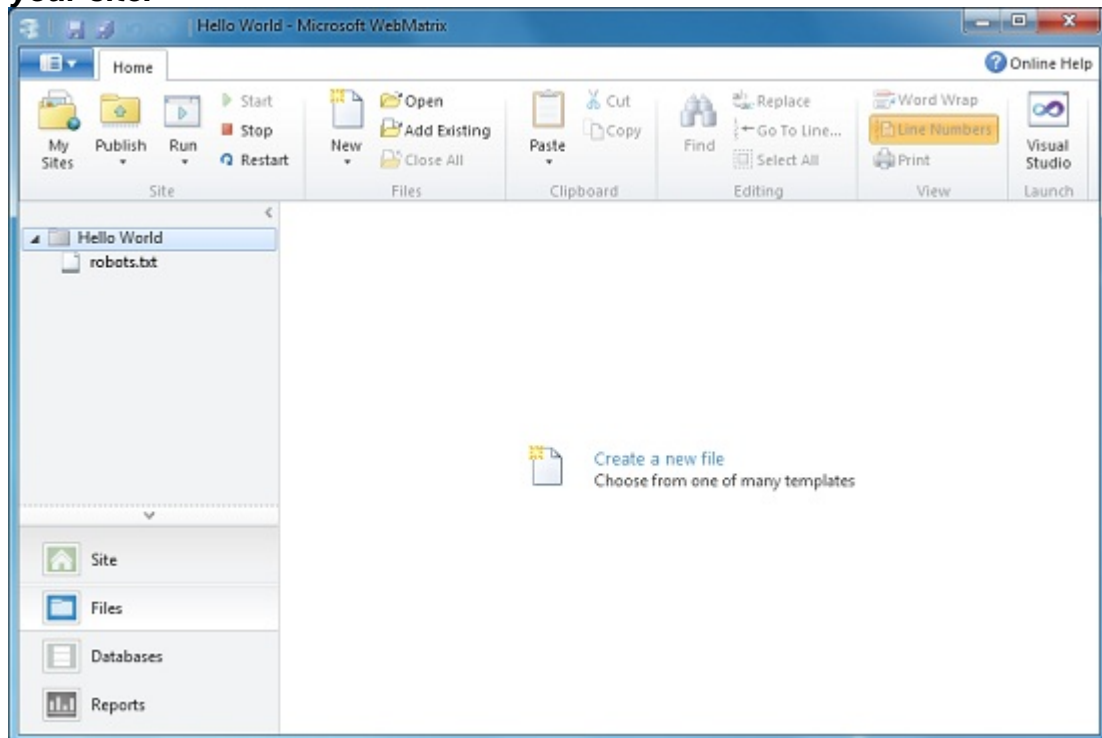




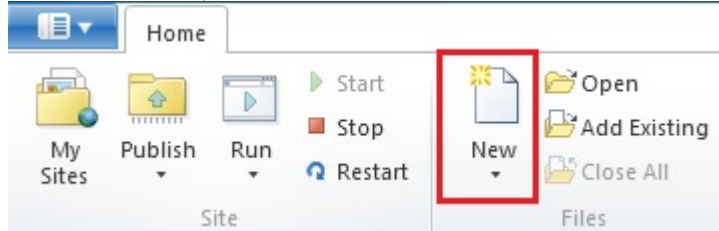
## ***Creating a Web Page***

- 1. In WebMatrix, select the Files workspace. This workspace lets you work with files and folders. The left pane shows the file structure of***

**your site.**



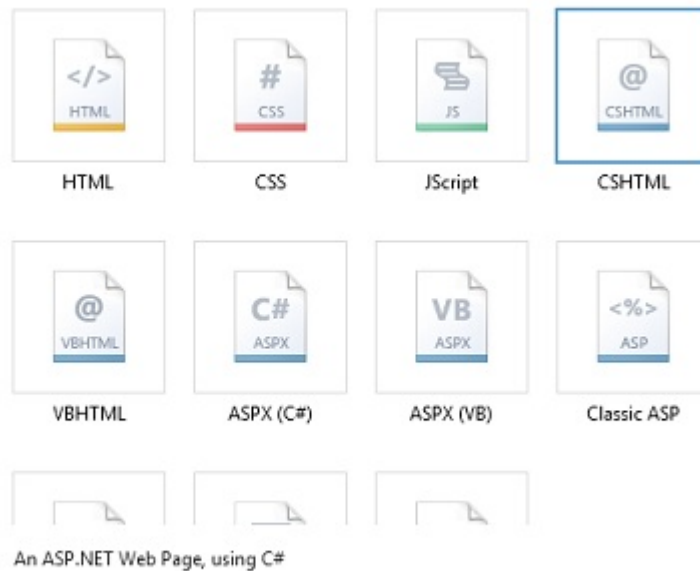
**2. In the ribbon, click New and then click New File.**



**WebMatrix displays a list of file types.**

### Choose a File Type

Common (11)  
Suggested (22)  
All (25)



3. **Select CSHTML, and in the Name box, type default.cshtml. A CSHTML page is a special type of page in WebMatrix that can contain the usual contents of a web page, such as HTML and JavaScript code, and that can also contain code for programming web pages. (You'll learn more about CSHTML files later.)**
4. **Click OK. WebMatrix creates the page and opens it in the editor.**

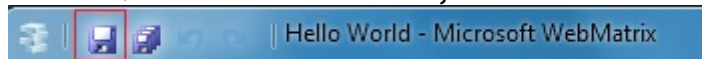
```
default.cshtml x
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8" />
5     <title></title>
6   </head>
7   <body>
8
9   </body>
10 </html>
```

As you can see, this is ordinary HTML markup.

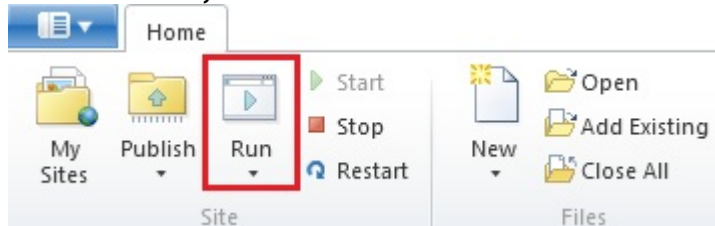
5. **Add the following title, heading, and paragraph content to the page:**
6. **!DOCTYPE html**
7. **html lang="en"**
8. **head**
9. **meta charset="utf-8" /**
10. **titleHello World Page/title**

11.            /head
  - 12.
  13.            body
  14.                h1Hello World Page/h1
  15.                pHello World!/p
  16.            /body
- /html

17. *In the Quick Access Toolbar, click Save.*

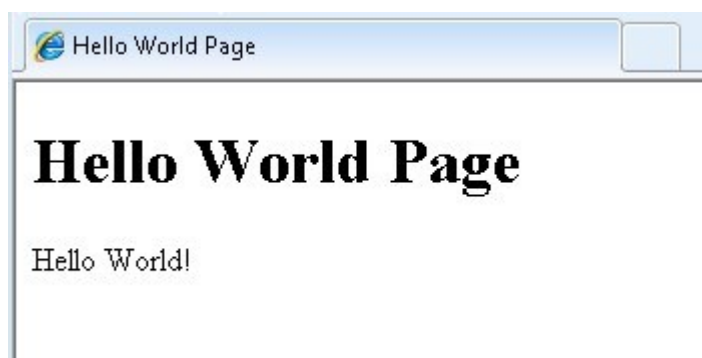


18. *In the ribbon, click Run.*



**Note** Before you click Run, make sure that the web page you want to run is selected in the navigation pane of the Files workspace. WebMatrix runs the page that's selected, even if you're currently editing a different page. If no page is selected, WebMatrix tries to run the default page for the site (*default.cshtml*), and if there is no default page, the browser displays an error.

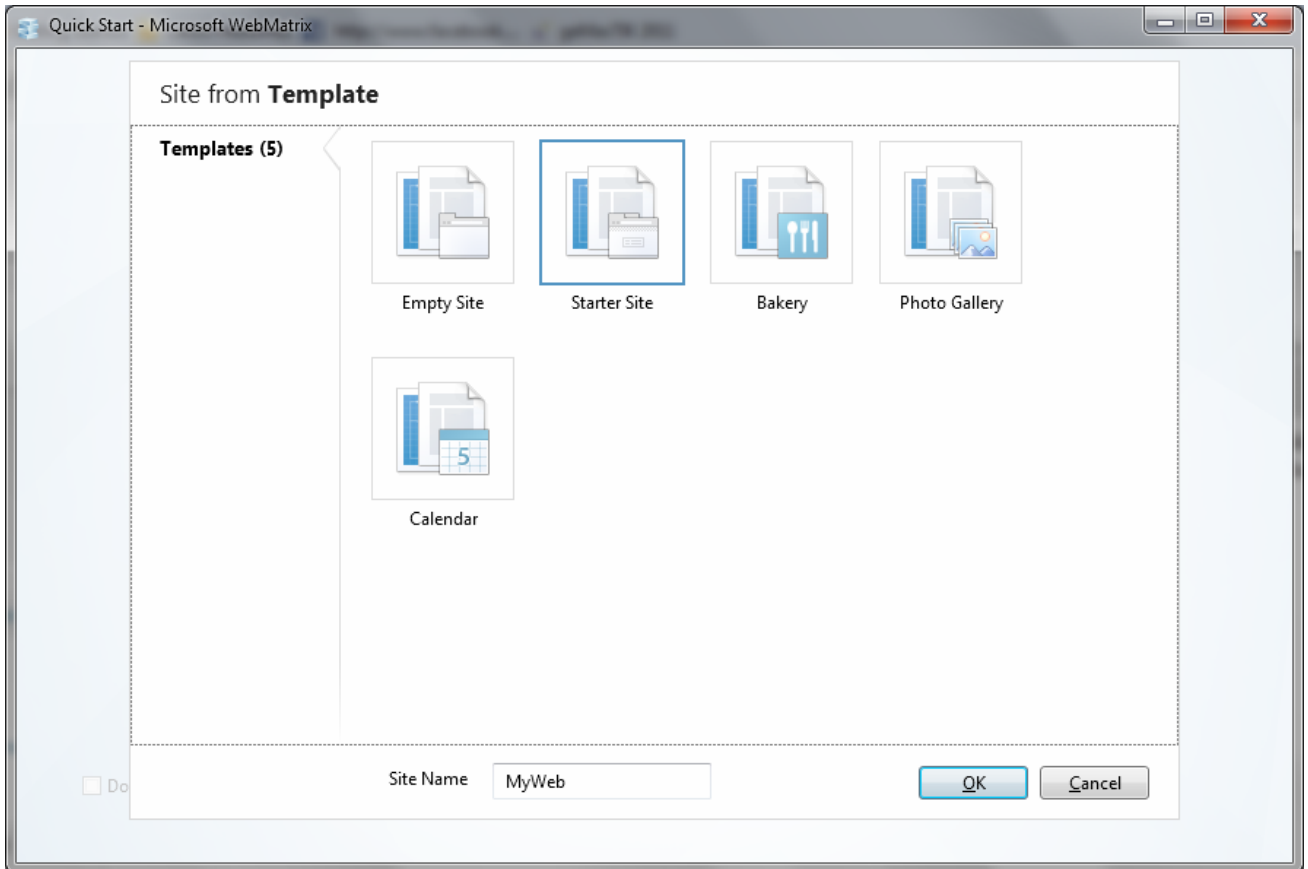
WebMatrix starts a web server (IIS Express) that you can use to test pages on your computer. The page is displayed in your default browser.



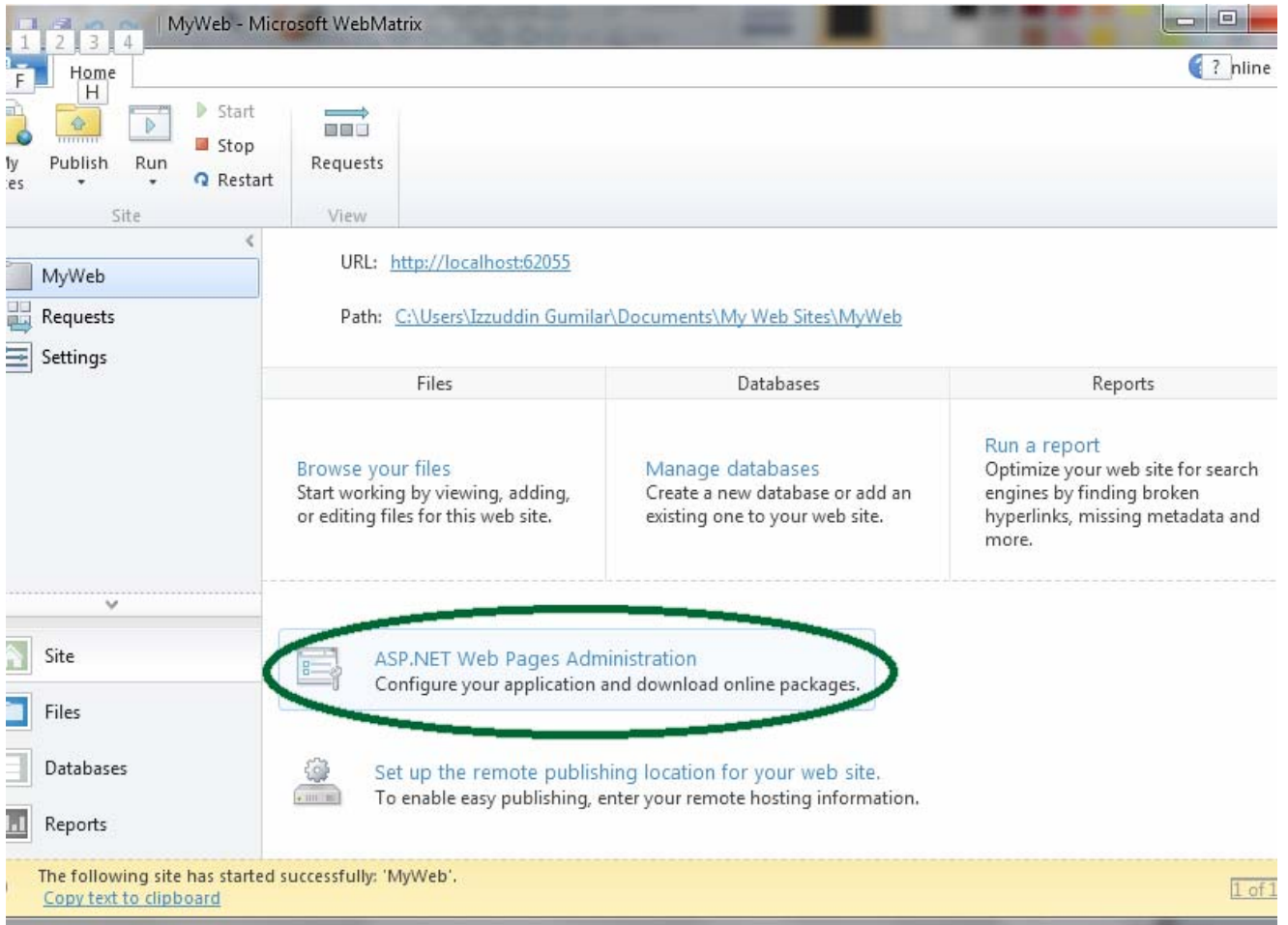
## Installing Helpers with the Administration Tool

In this post, I'll show you how to install some common helpers library (component) that simplify common programming tasks and make code easier with the ASP.net Web Page Administration Tools. Some helpers library also

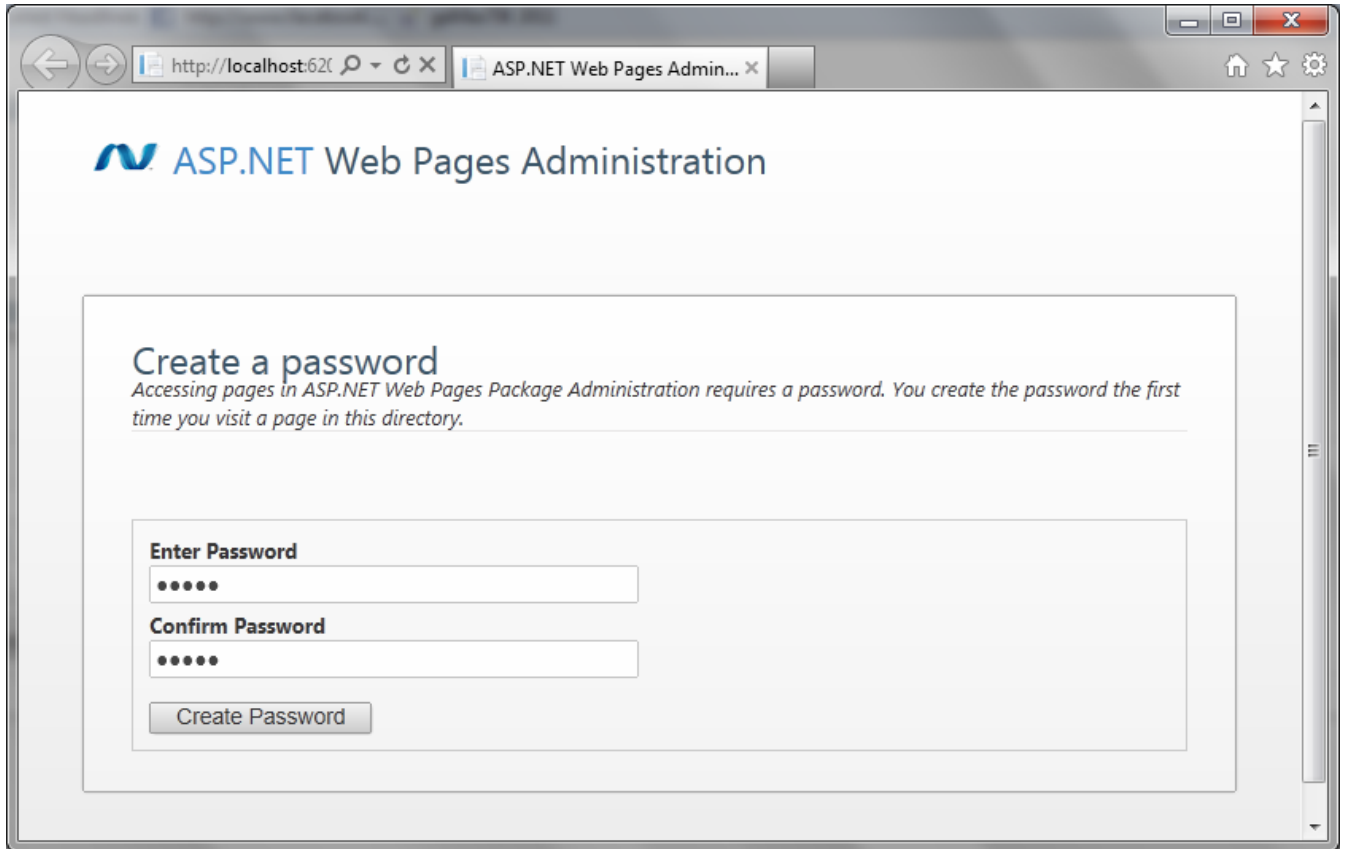
installed when we install Microsoft Web Matrix, but we can add or install other helper library into our web project application. First, create a new project from webmatrix and choose Starter Site on site from template window.



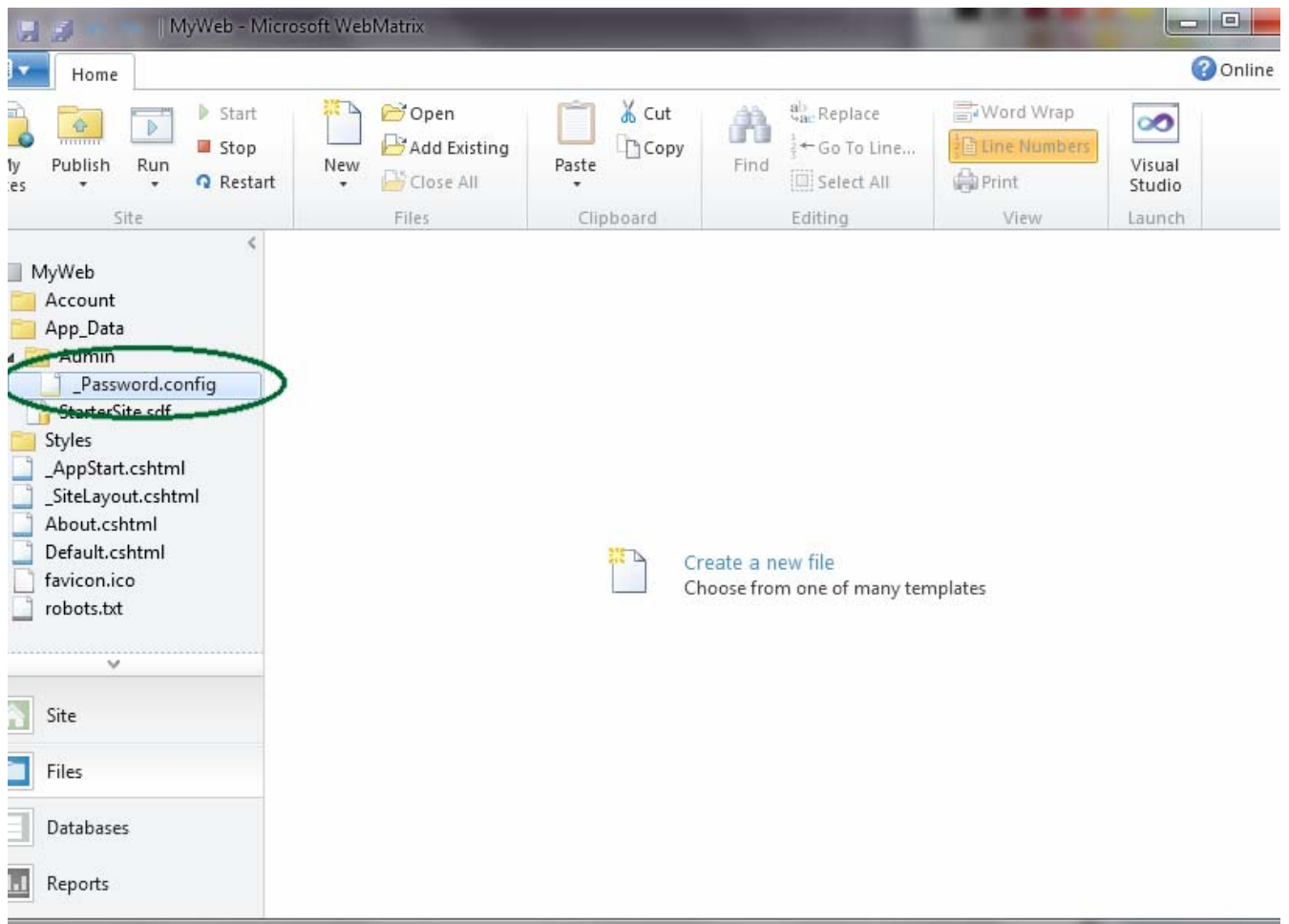
Go to site workspace, there is a ASP.net Web Page Administration menu and then click it to open this administration page on web browser.



If this is the first time you are logging to the administration page, you must create your password first.



After you create the password, it automatically create password config file named `_Password.config` in `AppData/Admin/` directory. According to the instruction, please rename `_Password.config` file into `Password.config`.

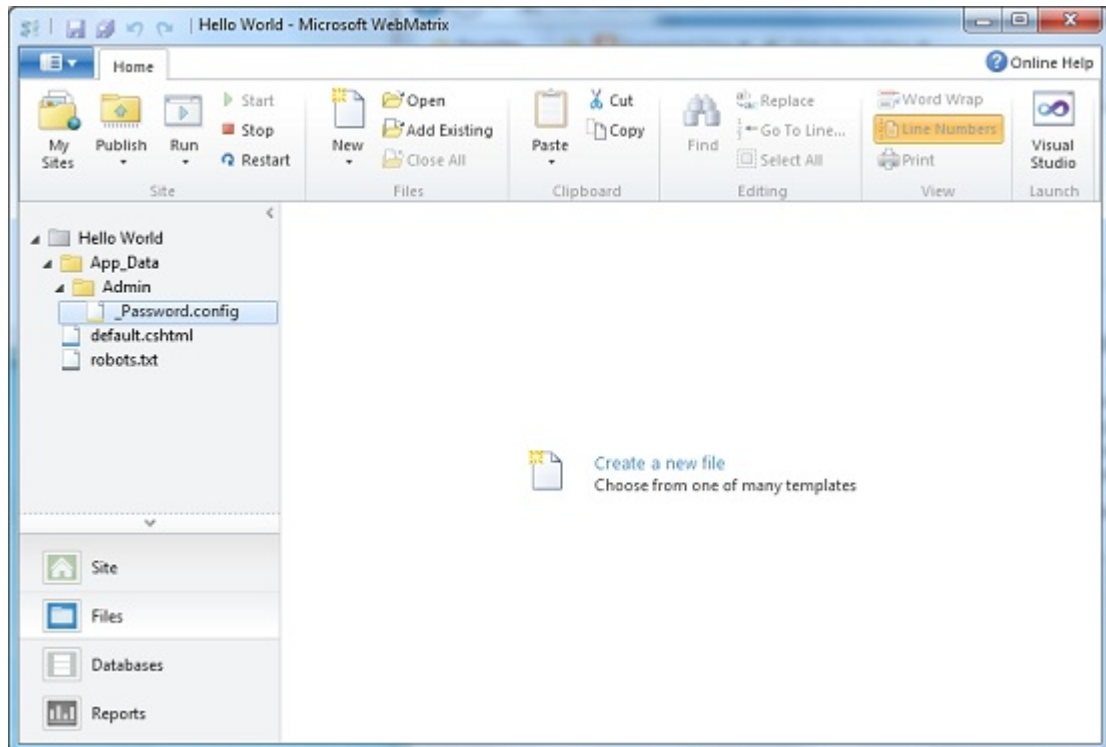


Okay, back to the admin page from your web browser and click "click here" link for get into your admin page. Input your password created before and you will see ASP.NET Web Pages Administration page that list a lot of helpers library that you can install into your web project. To install library that you want, just click install button from item helpers list in that page..





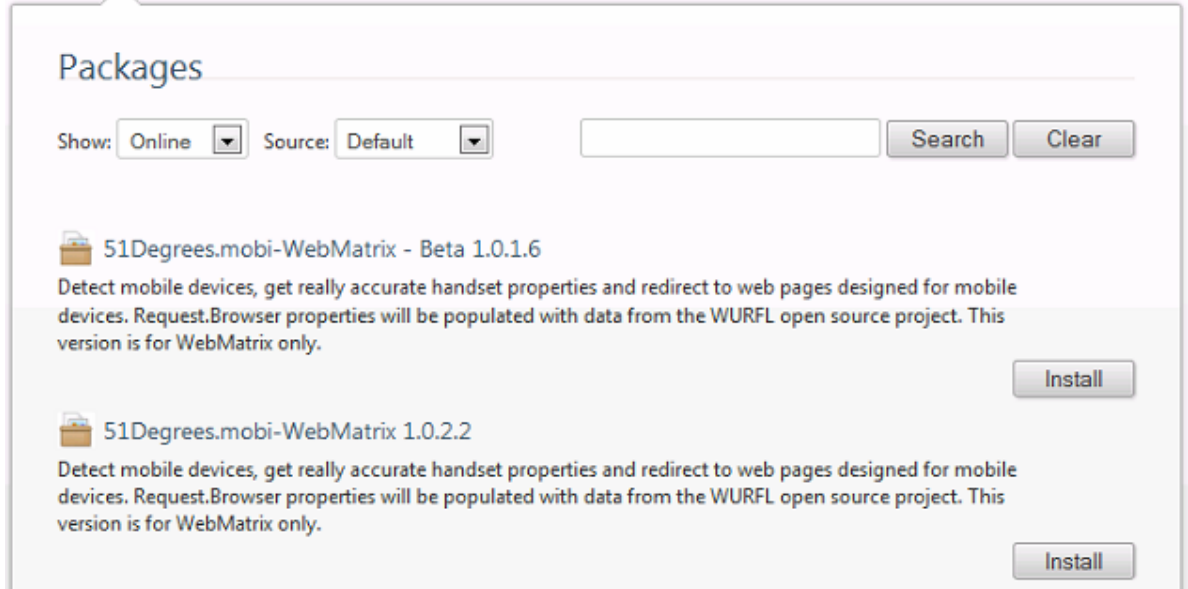
1. Leave the browser open on the security-check page, return to WebMatrix, and click the **Files** workspace.
2. Right-click the *Hello World* folder for your site and then click **Refresh**. The list of files and folders now displays an *App\_Data* folder. Open that and you see an *Admin* folder. The newly created password file (*\_Password.config*) is displayed in the *./App\_Data/Admin/* folder. The following illustration shows the updated file structure with the password file selected:



3. Rename the file to *Password.config* by removing the leading underscore (`_`) character.
4. Return to the security-check page in the browser, and click the **Click Here** link near the end of the message about renaming the password file.
5. Log into the Administration page using the password you created. The page displays the Package Manager, which contains a list of add-on

packages.

Package Manager



The screenshot shows the 'Packages' section of the ASP.NET Package Manager. At the top, there are filters for 'Show: Online' and 'Source: Default', followed by a search input field with 'Search' and 'Clear' buttons. Below this, two packages are listed:

- 51Degrees.mobi-WebMatrix - Beta 1.0.1.6**  
Detect mobile devices, get really accurate handset properties and redirect to web pages designed for mobile devices. Request.Browser properties will be populated with data from the WURFL open source project. This version is for WebMatrix only. [Install](#)
- 51Degrees.mobi-WebMatrix 1.0.2.2**  
Detect mobile devices, get really accurate handset properties and redirect to web pages designed for mobile devices. Request.Browser properties will be populated with data from the WURFL open source project. This version is for WebMatrix only. [Install](#)

If you ever want to display other feed locations, click the **Manage Package Sources** link to add, change, or remove feeds.

6. Find the ASP.NET Web Helpers Library package. To narrow down the list, search for *helpers* using the **Search** field. The following image shows the result of searching for *helpers*. Notice that several versions of this package are available.
7. Select the version that you want, click the **Install** button, and then install the package as directed. After the package is installed, the Package

Manager displays the result.

## ASP.NET Web Pages Administration

[ [Manage Package Sources](#) ] [ [Logout](#) ]

### Package Manager

## Packages

 Package ASP.NET Web Helpers Library 1.15 was successfully installed.

Show:  Source:



### ASP.NET Web Helpers Library 1.0

This package contains web helpers to easily add functionality to your site such as Captcha validation, Twitter profile and search boxes, Gravatars, Video, Bing search, site analytics or themes.



### ASP.NET Web Helpers Library 1.1

This package contains web helpers to easily add functionality to your site such as Captcha validation, Twitter profile and search boxes, Gravatars, Video, Bing search, site analytics or themes.



### ASP.NET Web Helpers Library 1.15

This package contains web helpers to easily add functionality to your site such as Captcha validation, Twitter profile and search boxes, Gravatars, Video, Bing search, site analytics or themes.



### Twitter.Helper 1.0

ASP.NET Web Pages helpers for displaying Twitter widgets like Follow Me and Tweet Buttons.

Source: Microsoft.com