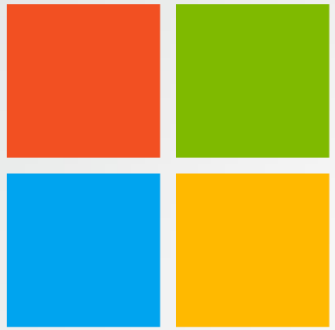


Microsoft

ASP.NET Workshop

By Howard University Microsoft Student Partners

Jeff Beauplan

Michelle Brown

Github: https://github.com/JayDougie/Test_webstite

Contents

- Setting up the project
- Understanding the structure of the project folder
- Building/customizing the website
- Deployment process via Azure Cloud Services

Microsoft

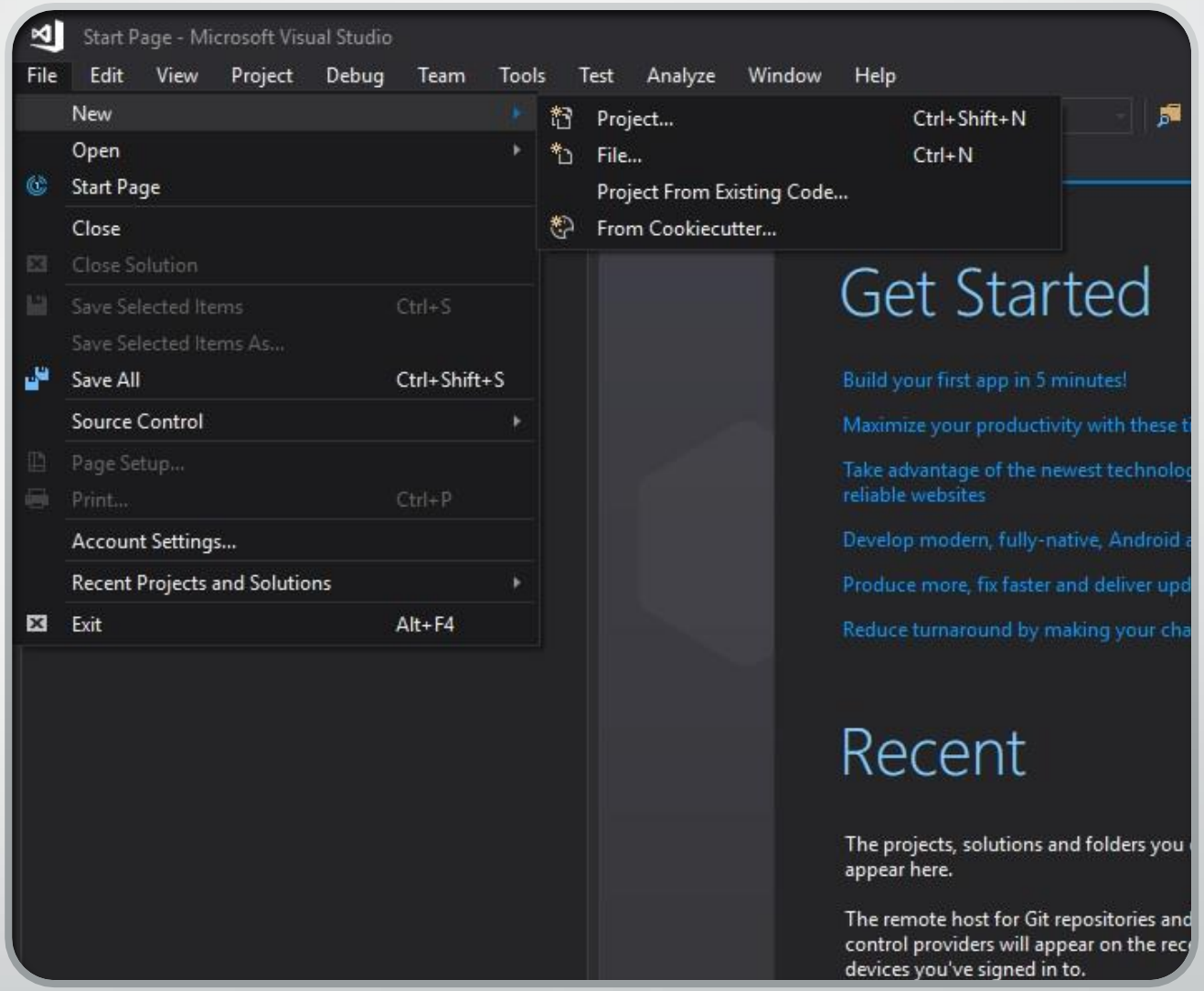
Things you need

- Microsoft Visual Studio (With ASP.NET Package installed)
- Azure Account (free passes provided)
- Visual Studio Team Services Account (visualstudio.com)

Microsoft

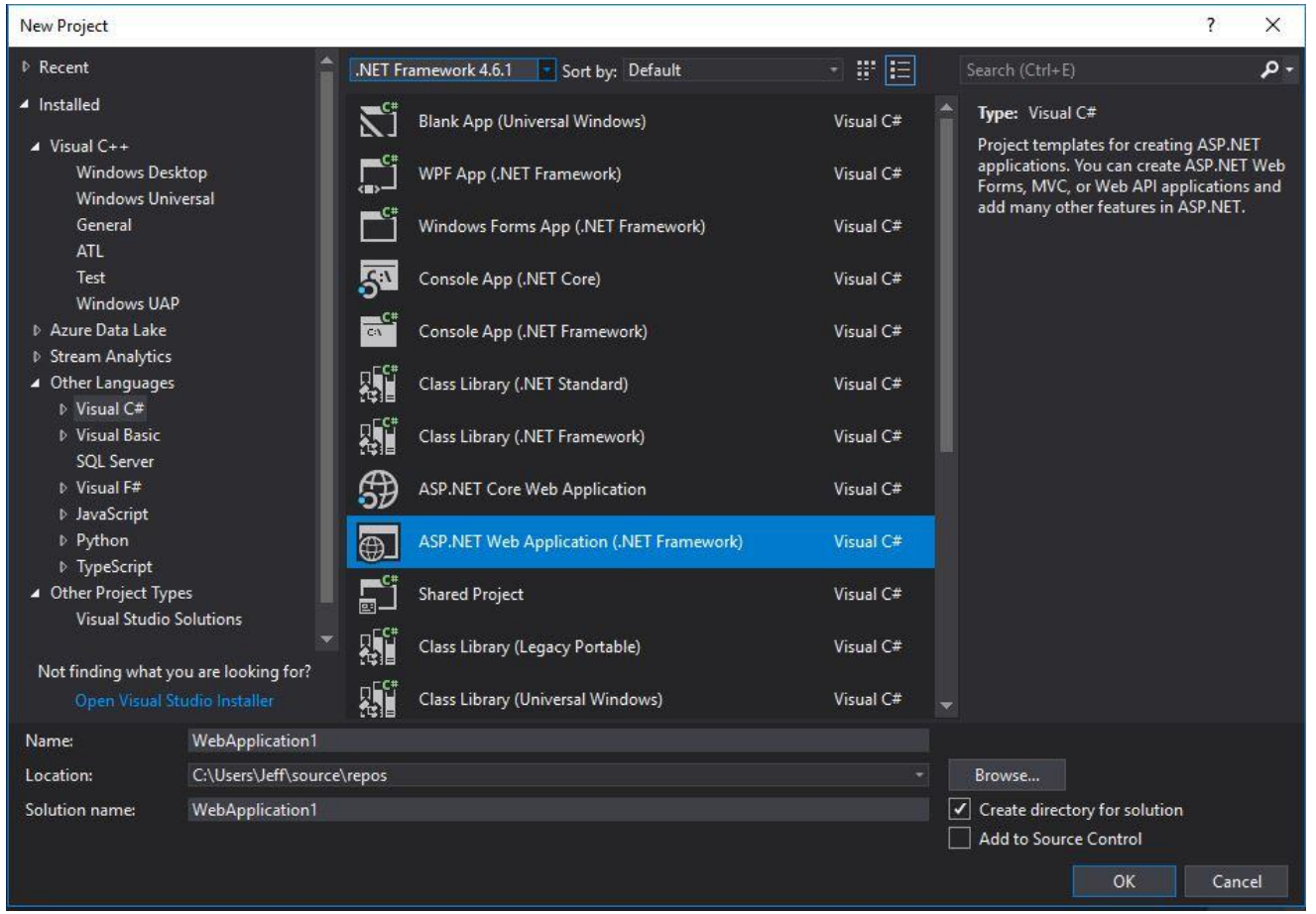
Setting up the Project

- Open Visual Studio
- Click **New**
- Click **Project**

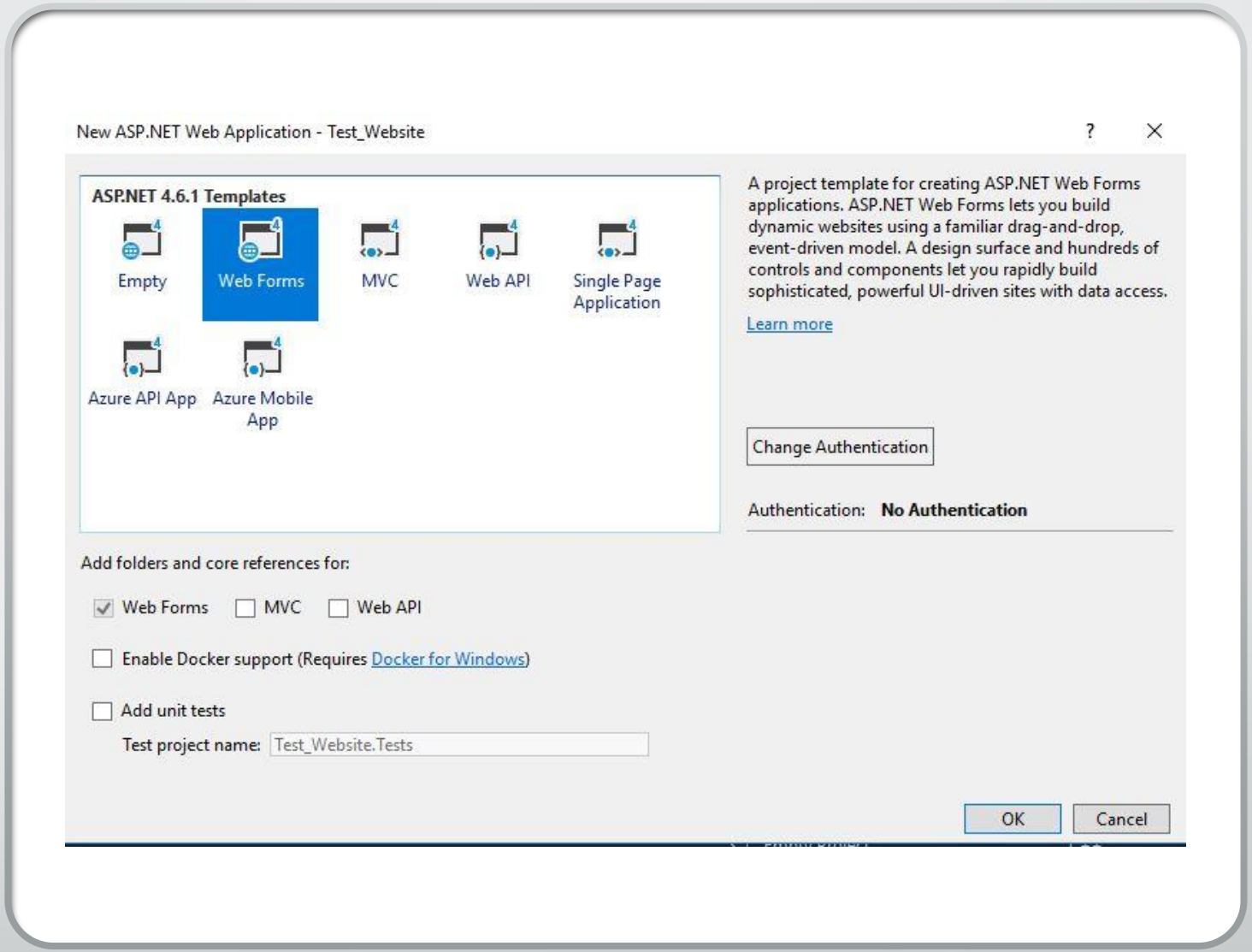


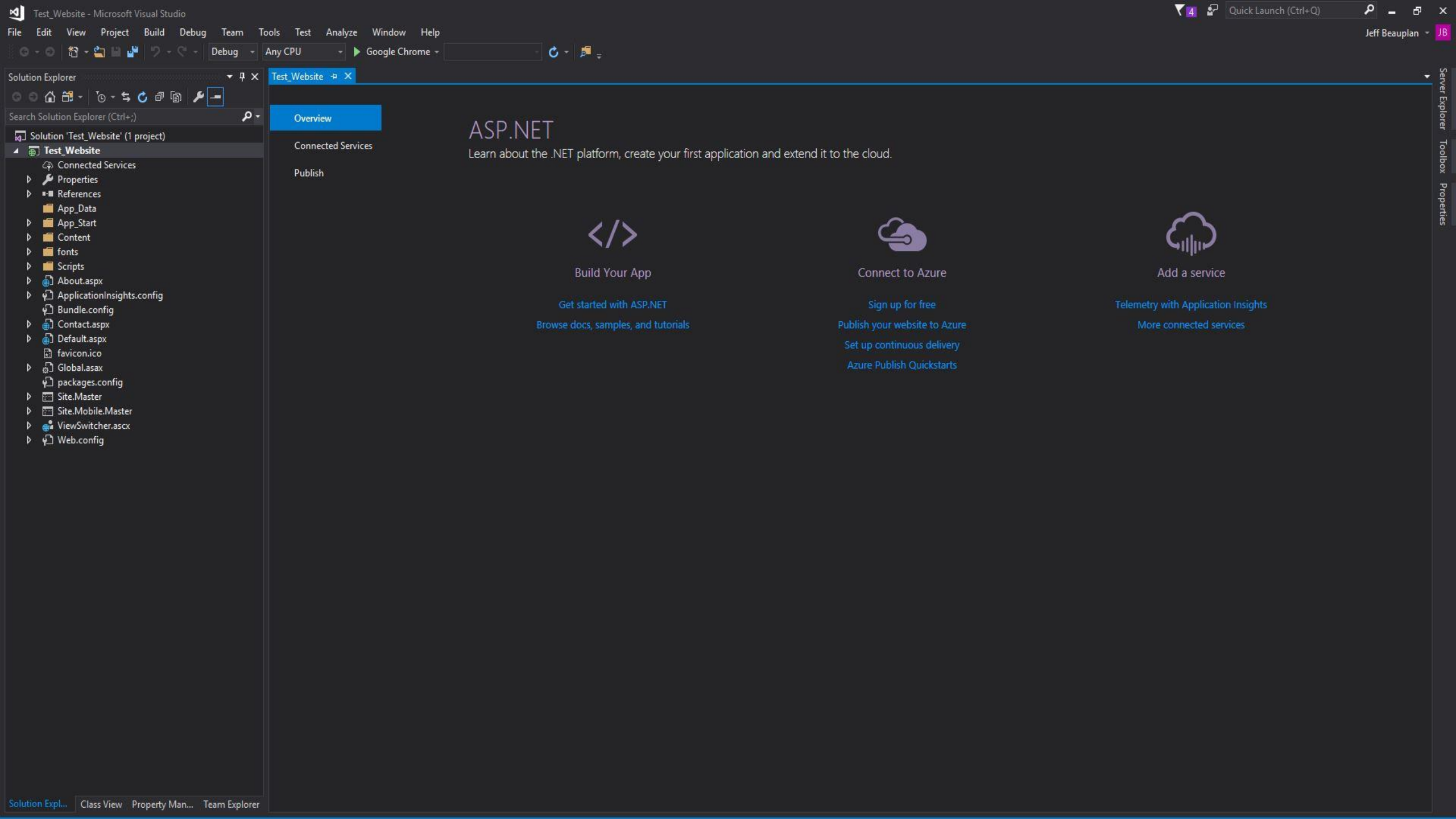
New Project Panel

- On the side panel select **Other Languages**
- Select **Visual C#**
- Select **ASP.NET Web Application**
- Click **OK**



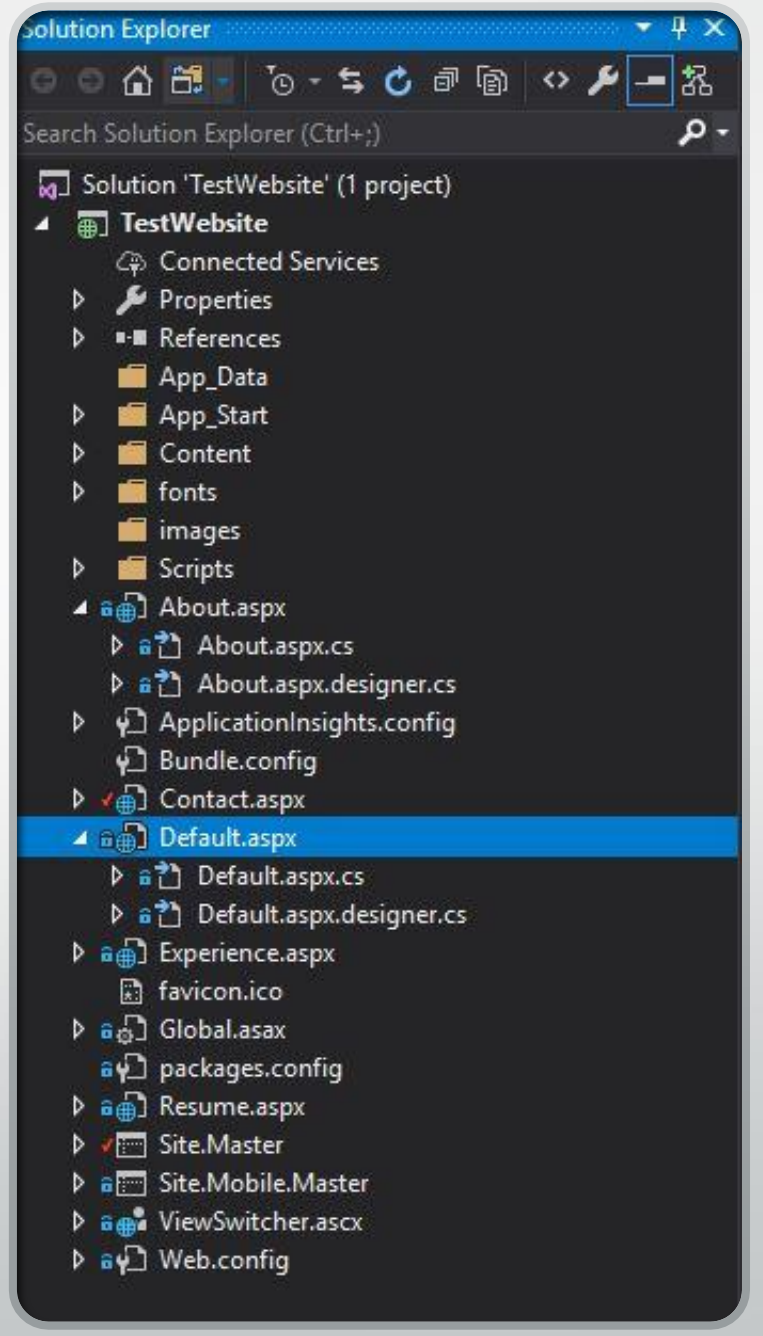
- Select **Web Forms**
- Click **OK**



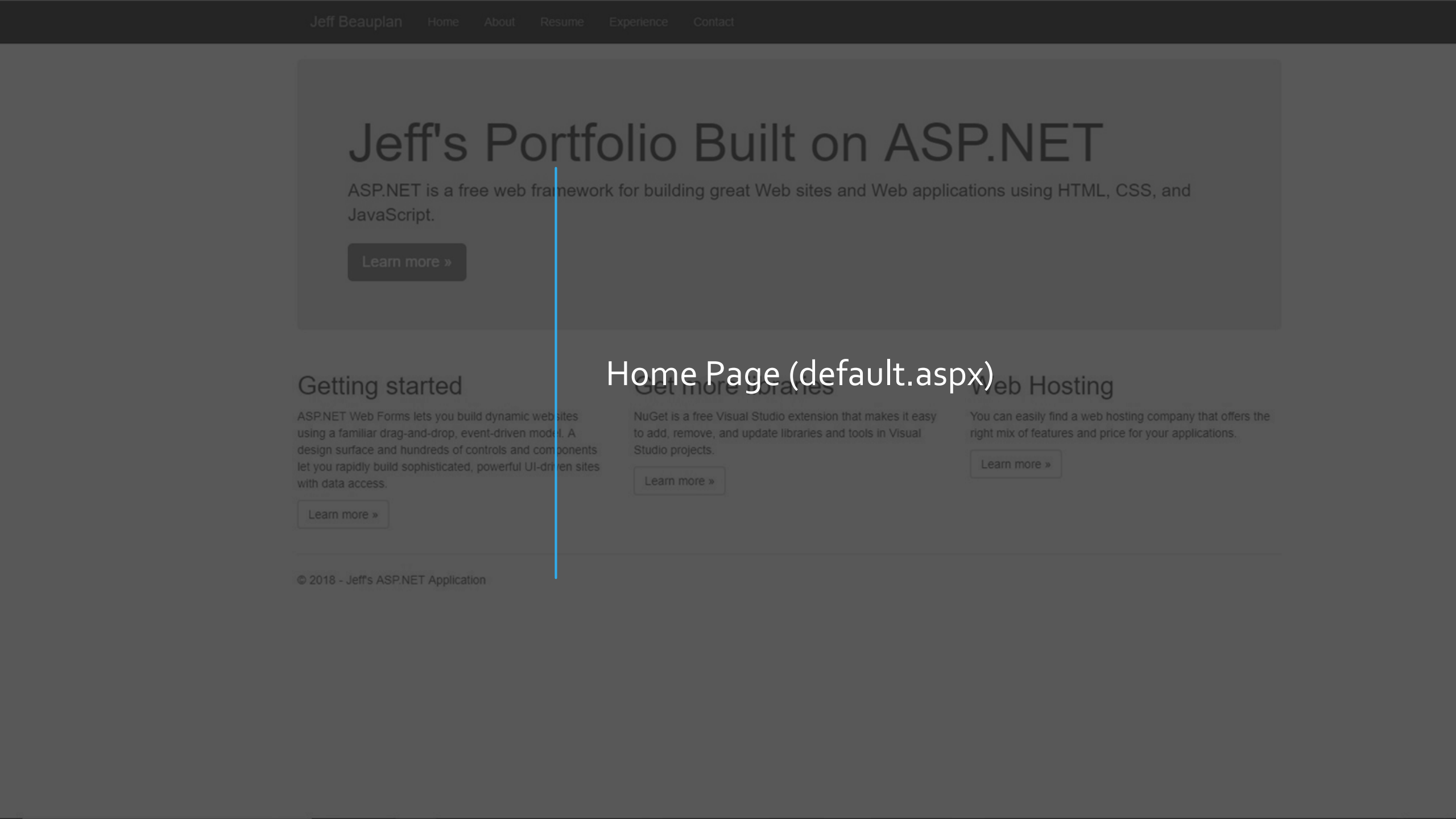

Test_Website - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Jeff Beauplan
Debug
Any CPU
Google Chrome
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Test_Website' (1 project)
Test_Website
Connected Services
Properties
References
App_Data
App_Start
Content
fonts
Scripts
About.aspx
ApplicationInsights.config
Bundle.config
Contact.aspx
Default.aspx
favicon.ico
Global.asax
packages.config
Site.Master
Site.Mobile.Master
ViewSwitcher.ascx
Web.config
Solution Expl...
Class View
Property Man...
Team Explorer
Test_Website
Overview
Connected Services
Publish
ASP.NET
Learn about the .NET platform, create your first application and extend it to the cloud.
Build Your App
Get started with ASP.NET
Browse docs, samples, and tutorials
Connect to Azure
Sign up for free
Publish your website to Azure
Set up continuous delivery
Azure Publish Quickstarts
Add a service
Telemetry with Application Insights
More connected services
Server Explorer
Toolbox
Properties

Understanding the Structure of the Project Folder

- Each Page has a markup file and a code file
- .aspx = Markup File
- .aspx.cs = Code Files
- .aspx.designer.cs = Joins Markup & Code
- The master page is the default template that every page uses (your navigation menu and footer should be in the master page). Site.Master and Mobile.Master
- Web.config holds specific settings about the behavior of your website.
- The scripts folder contains any libraries that you import

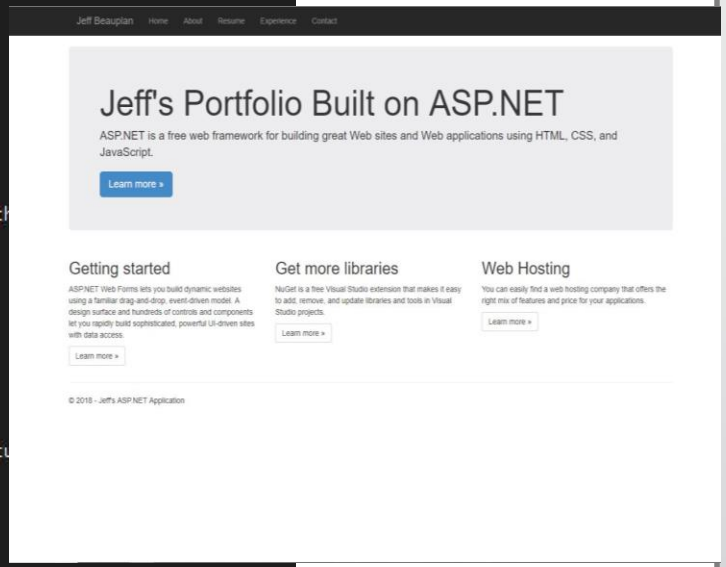


Building/Customizing the website



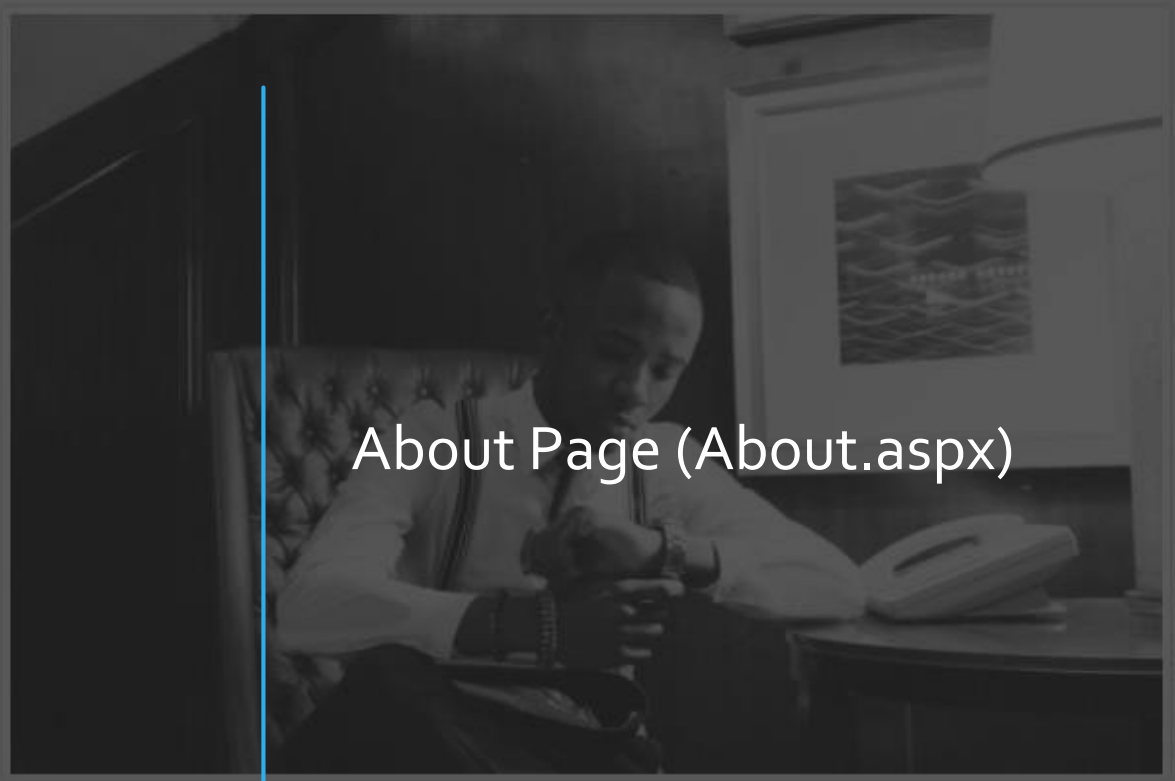
Home Page (default.aspx)

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="TestWebsite._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

    <div class="jumbotron">
        <h1>Jeff's Portfolio Built on ASP.NET</h1>
        <%--<asp:Image runat="server" ImageUrl="~/images/jeff_headshot.jpg" Width="300" Height="300"/>--%>
        <p class="lead">ASP.NET is a free web framework for building great Web sites and Web applications using HTML, CSS, and JavaScript.</p>
        <p><a href="http://www.asp.net" class="btn btn-primary btn-lg">Learn more &raquo;</a></p>
    </div>

    <div class="row">
        <div class="col-md-4">
            <h2>Getting started</h2>
            <p>
                ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model.
            A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful UI-driven sites with
            </p>
            <p>
                <a class="btn btn-default" href="https://go.microsoft.com/fwlink/?LinkId=301948">Learn more &raquo;</a>
            </p>
        </div>
        <div class="col-md-4">
            <h2>Get more libraries</h2>
            <p>
                NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Stu
            </p>
            <p>
                <a class="btn btn-default" href="https://go.microsoft.com/fwlink/?LinkId=301949">Learn more &raquo;</a>
            </p>
        </div>
        <div class="col-md-4">
            <h2>Web Hosting</h2>
            <p>
                You can easily find a web hosting company that offers the right mix of features and price for your applications.
            </p>
            <p>
                <a class="btn btn-default" href="https://go.microsoft.com/fwlink/?LinkId=301950">Learn more &raquo;</a>
            </p>
        </div>
    </div>

</asp:Content>

```



Jeff Beauplan Home About Resume Experience Contact

Personal Bio

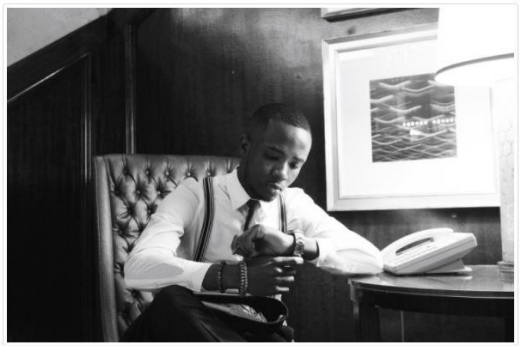


About Page (About.aspx)

My name is Jeff Samuel Beauplan. I was born in Port-au-Prince, Haiti on November 29, 1996. I relocated to the United States at a very young age after an assassination attempt on my father due to his financial standings. I now attend Howard University as a Computer Science major. Throughout my life I have faced a series of obstacles and challenges, all of which have helped to shape me not only as a person but also as a scholar. In this portfolio you will see some of the projects I've worked on that demonstrate some of my strengths and weaknesses as an engineer and a scholar. By partaking in these projects I've learned a lot about myself, team work, and the many different ways one can go about solving a problem. This site will serve as a catalog for my experiences and endeavors as an engineer.

Jeff Beauplan Home About Resume Experience Contact

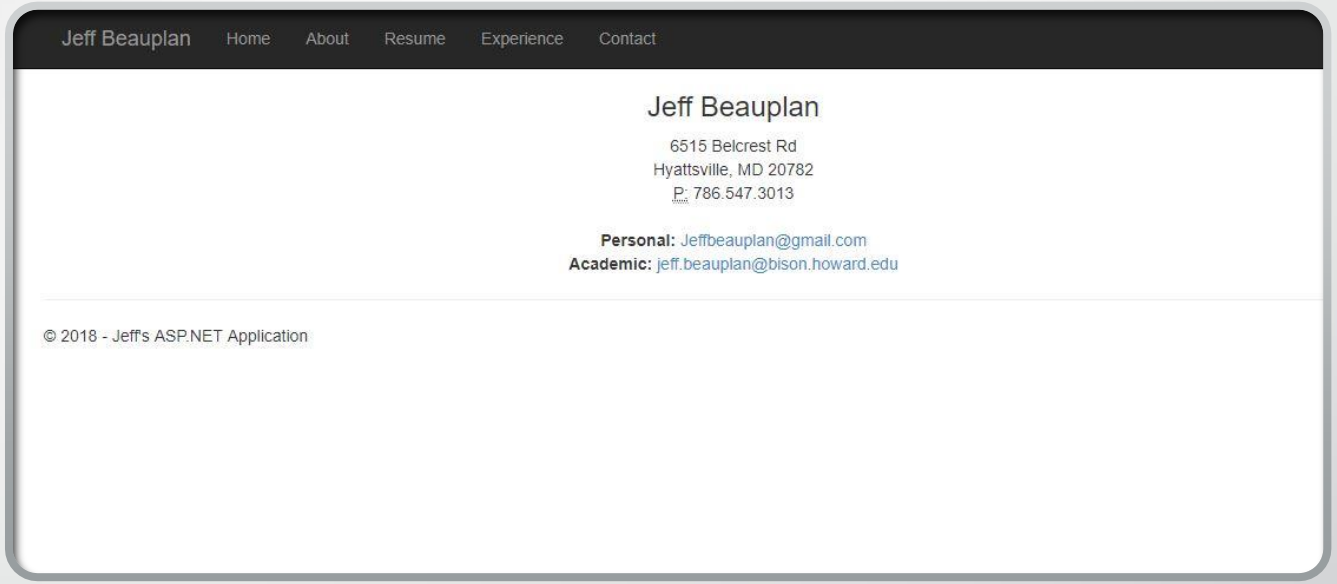
Personal Bio



My name is Jeff Samuel Beauplan. I was born in Port-au-Prince, Haiti on November 29, 1996. I relocated to the United States at a very young age after an assassination attempt on my father due to his financial standings. I now attend Howard University as a Computer Science major. Throughout my life I have faced a series of obstacles and challenges, all of which have helped to shape me not only as a person but also as a scholar. In this portfolio you will see some of the projects I've worked on that demonstrate some of my strengths and weaknesses as an engineer and a scholar. By partaking in these projects I've learned a lot about myself, team work, and the many different ways one can go about solving a problem. This site will serve as a catalog for my experiences and endeavors as an engineer.


```
1  <%@ Page Title="About" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="About.aspx.cs" Inherits="TestWebsite.About" %>
2
3  <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
4      <asp:Panel runat="server" ID="Pnl_Content" HorizontalAlign="Center">
5          <h2> Personal Bio</h2>
6          <%--<h3>Your application description page.</h3>--%>
7          <div>
8              <asp:Image runat="server" ImageUrl="~/images/jeff_chair.jpg" Width="600" Height="400" class="img-thumbnail"/>
9          </div>
10
11         <p>My name is Jeff Samuel Beauplan. I was born in Port-au-Prince, Haiti on November 29, 1996. I relocated to the United States at a very young age after an assassination attempt on my father due to
12
13     </asp:Panel>
14 </asp:Content>
15
```

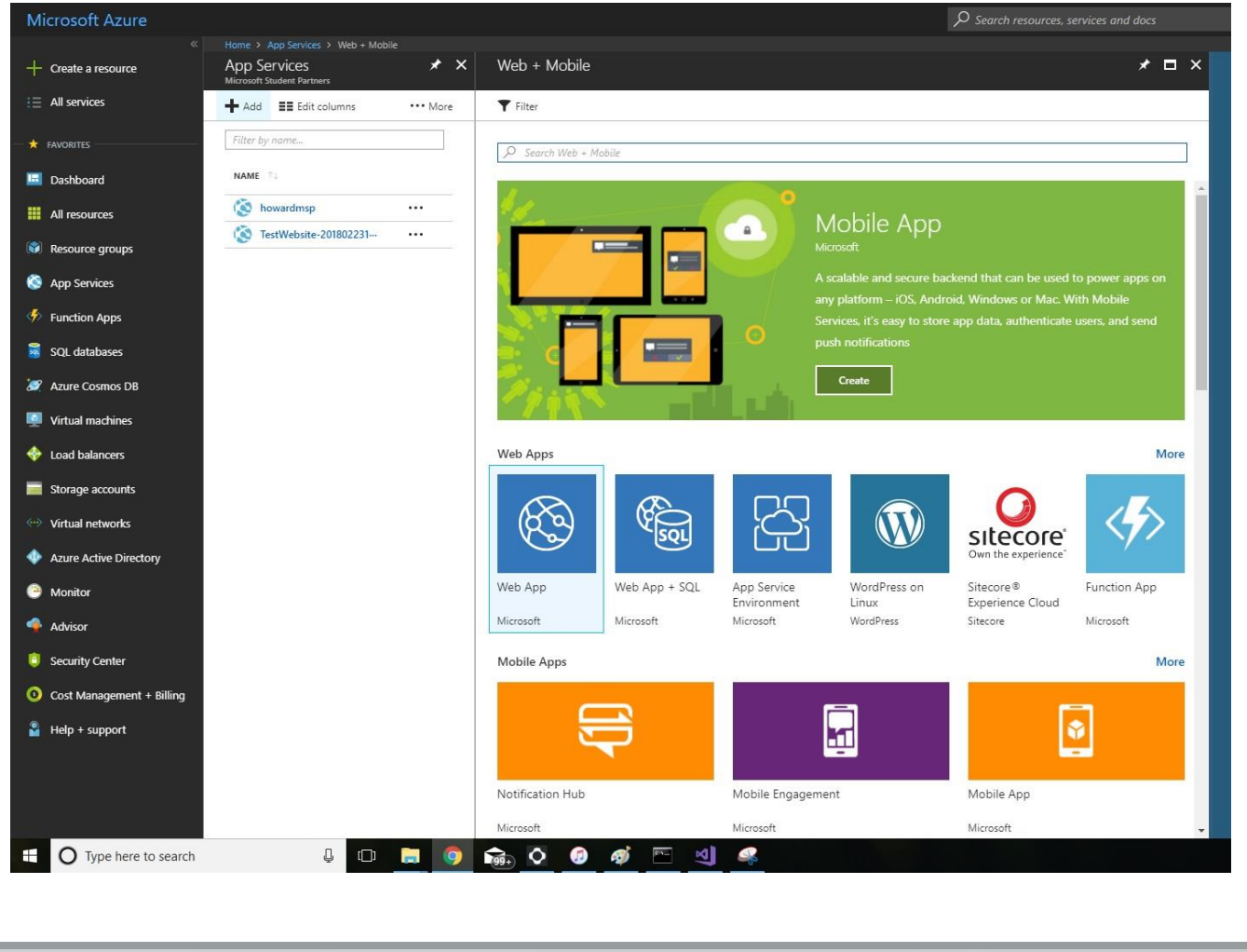
Contact Page (Contact.aspx)

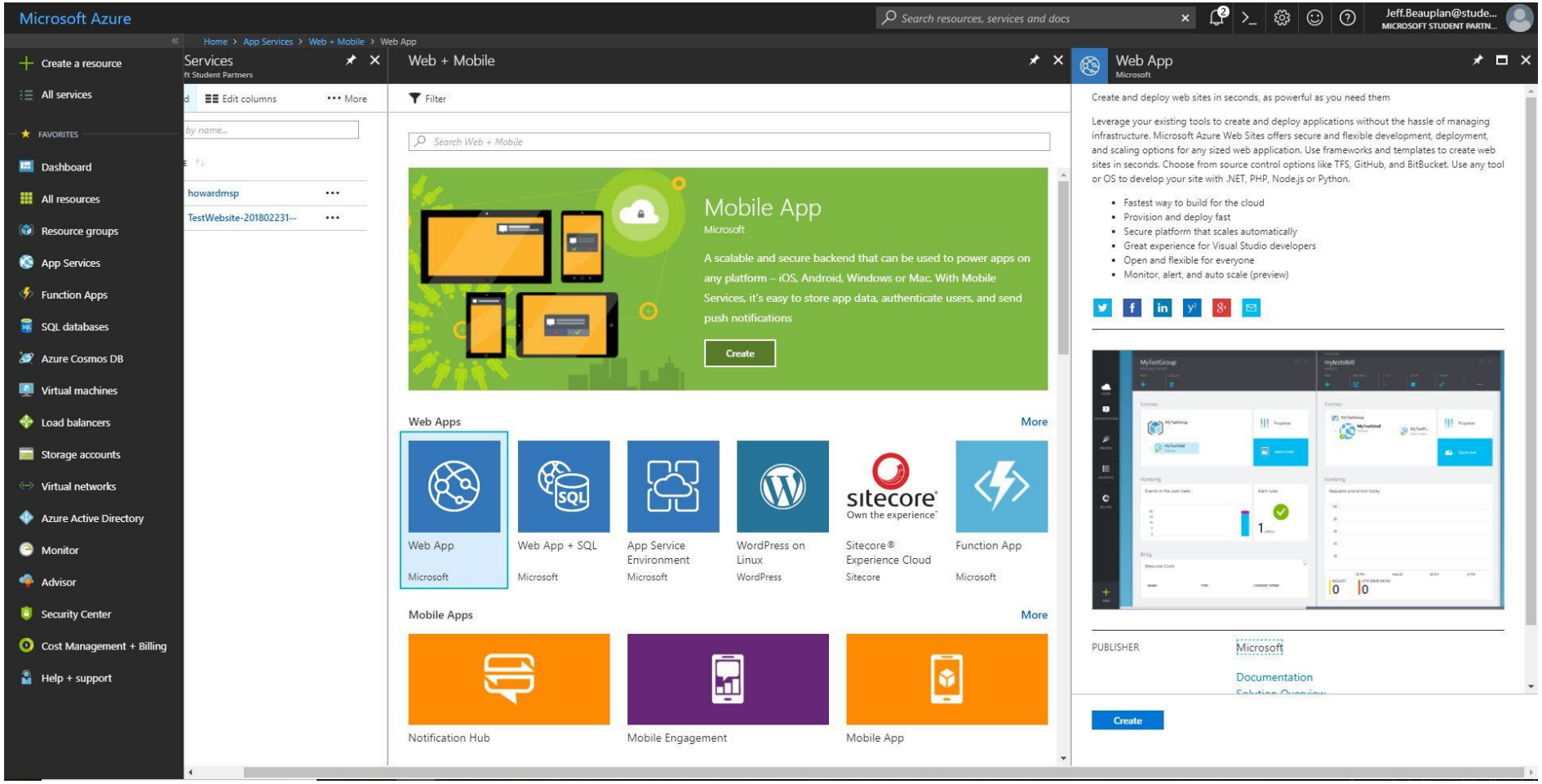



```aspx
<%@ Page Title="Contact" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Contact.aspx.cs" Inherits="TestWebsite.Contact" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:Panel runat="server" ID="Pnl_Content" HorizontalAlign="Center">
        <%--<h2><%: Title %>.</h2>--%>
    <h3>Jeff Beauplan</h3>
    <address>
        6515 Belcrest Rd<br />
        Hyattsville, MD 20782<br />
        <abbr title="Phone">P:</abbr>
        786.547.3013
    </address>

    <address>
        <strong>Personal:</strong>   <a href="mailto:jeffbeauplan@gmail.com">Jeffbeauplan@gmail.com</a><br />
        <strong>Academic:</strong> <a href="mailto:jeff.beauplan@bison.howard.edu">jeff.beauplan@bison.howard.edu</a>
    </address>
    </asp:Panel>

</asp:Content>
```

Deployment Process via Azure Cloud Services

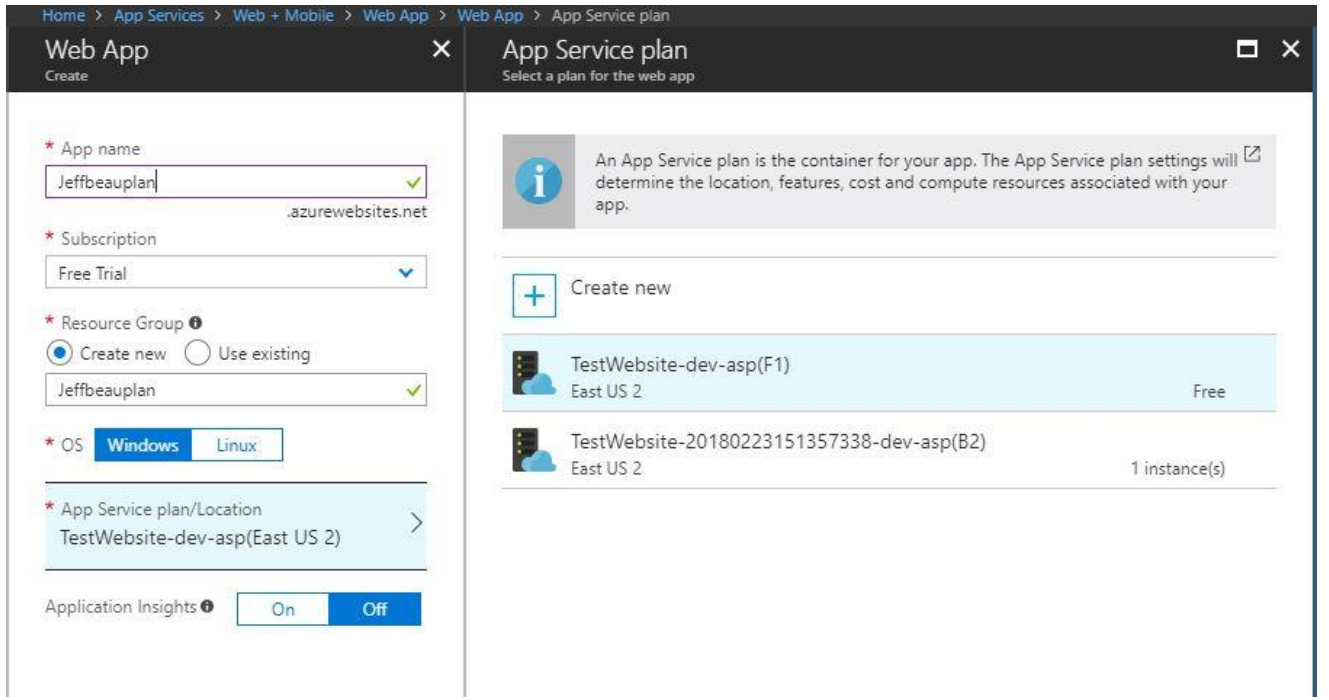
- Go to **portal.azure.com**
- Log in
- Select **App Services** from side panel



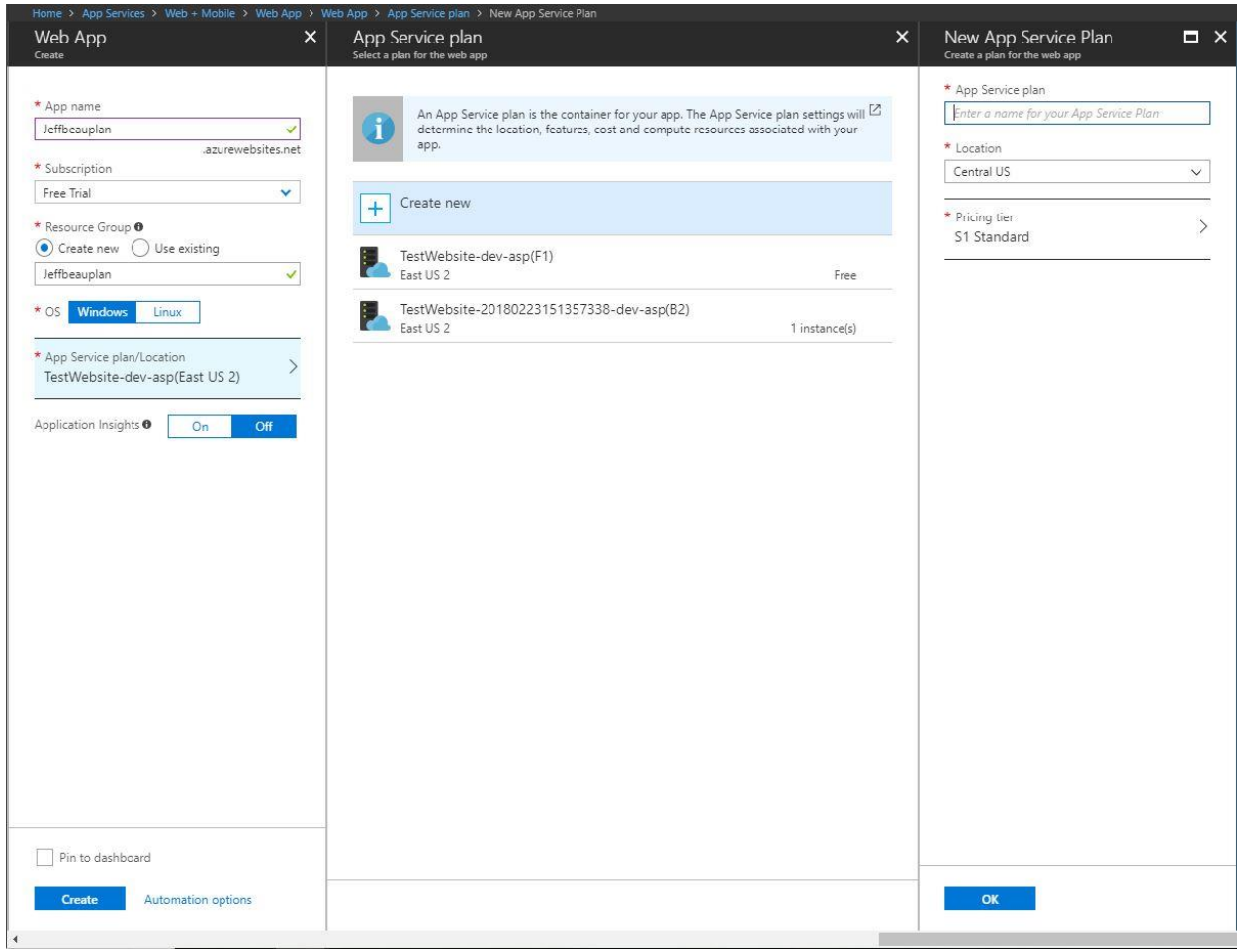


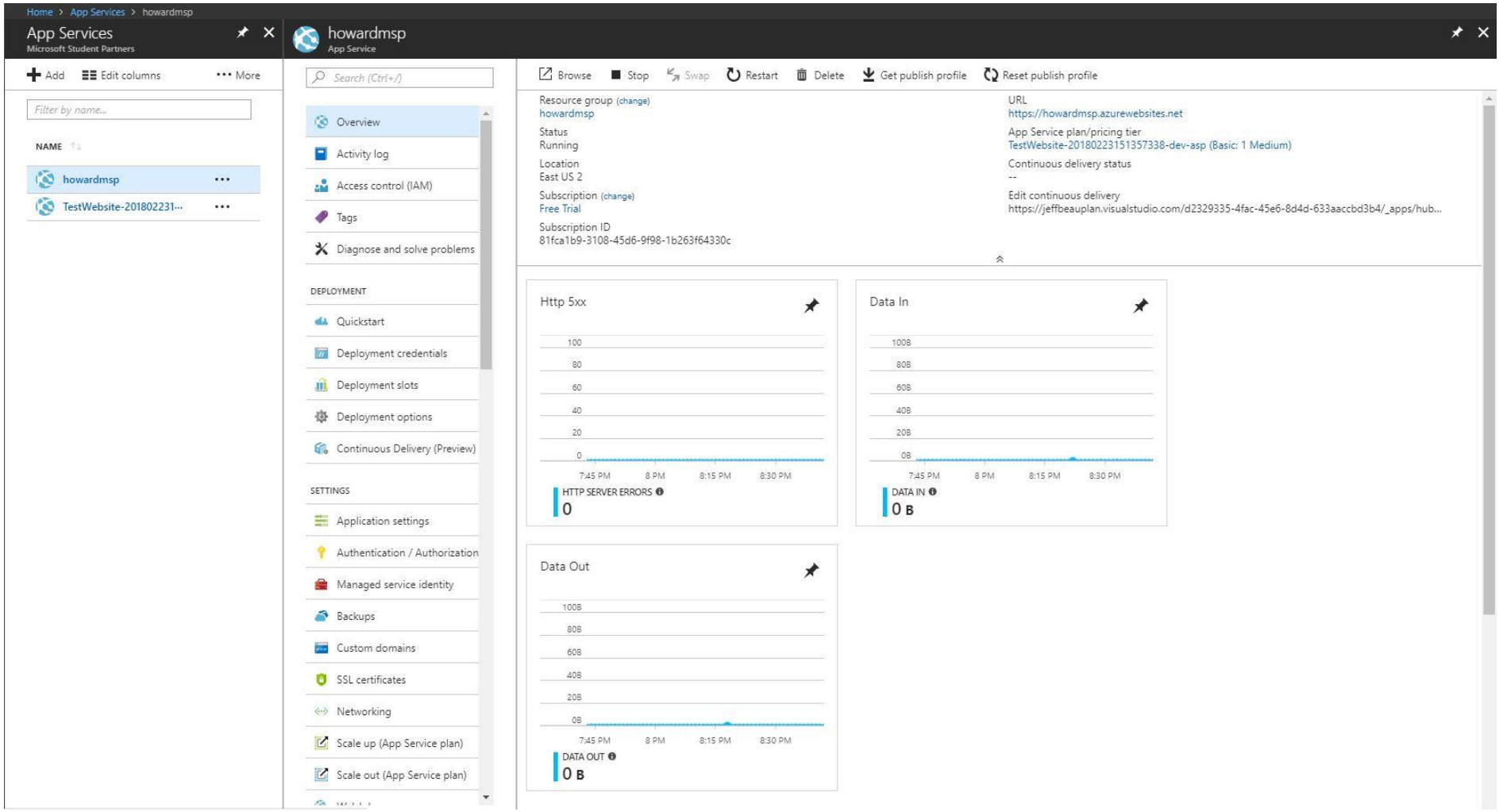
Select **Web App** and then click **Create**

- Enter your app name (this will eventually be the link that you use to go to your webstie)
- Leave everything else on default. It automatically makes a new resource group for you with the app name

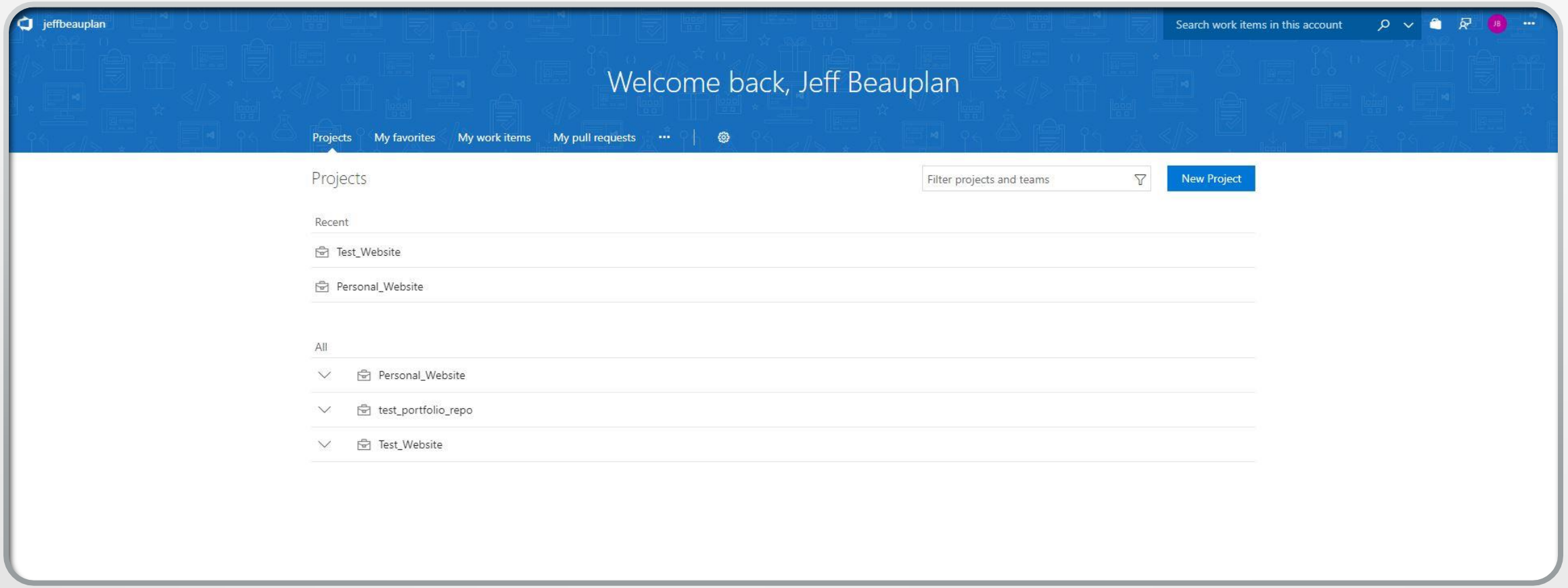


- Click **Create new** under App Service Plan
- Enter a name for the app service plan
- Click **Ok**
- Then Click **Create**

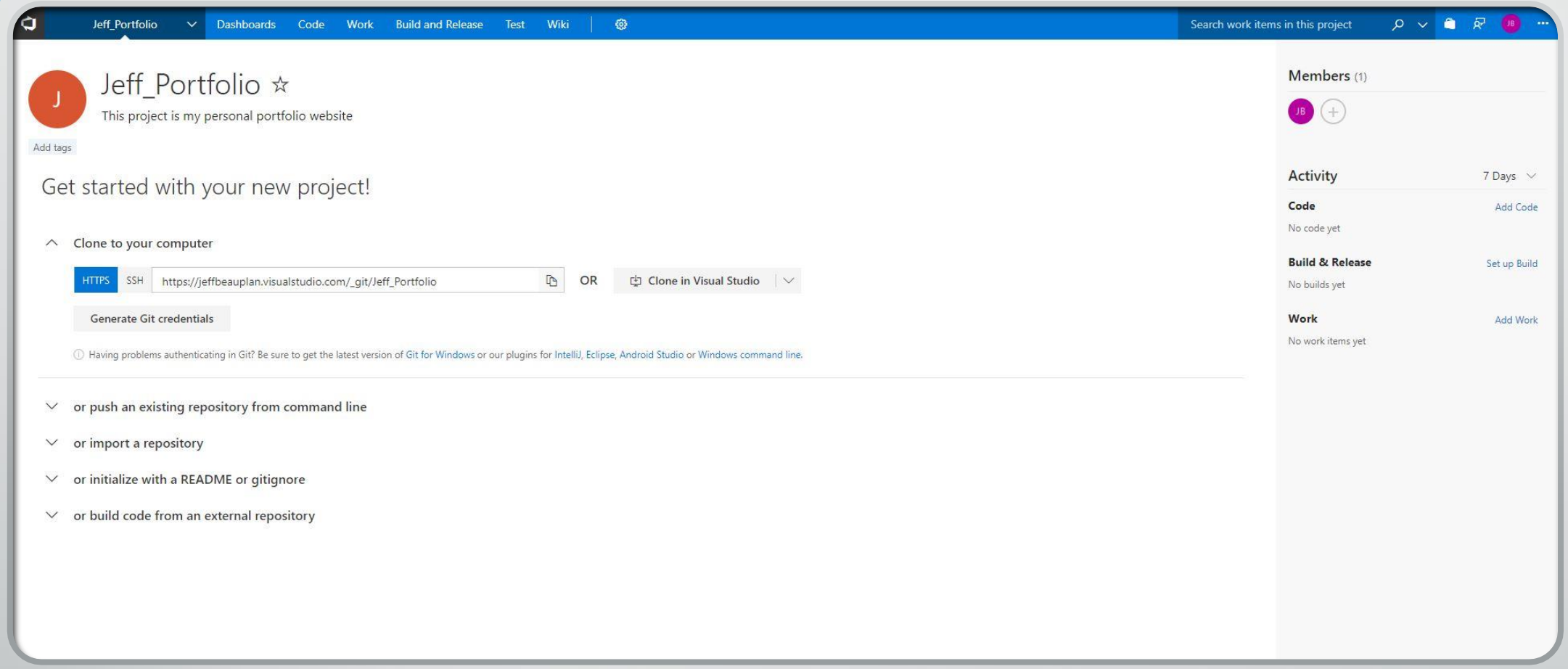




You should now be able to see your newly created app service under the **App Services** Menu

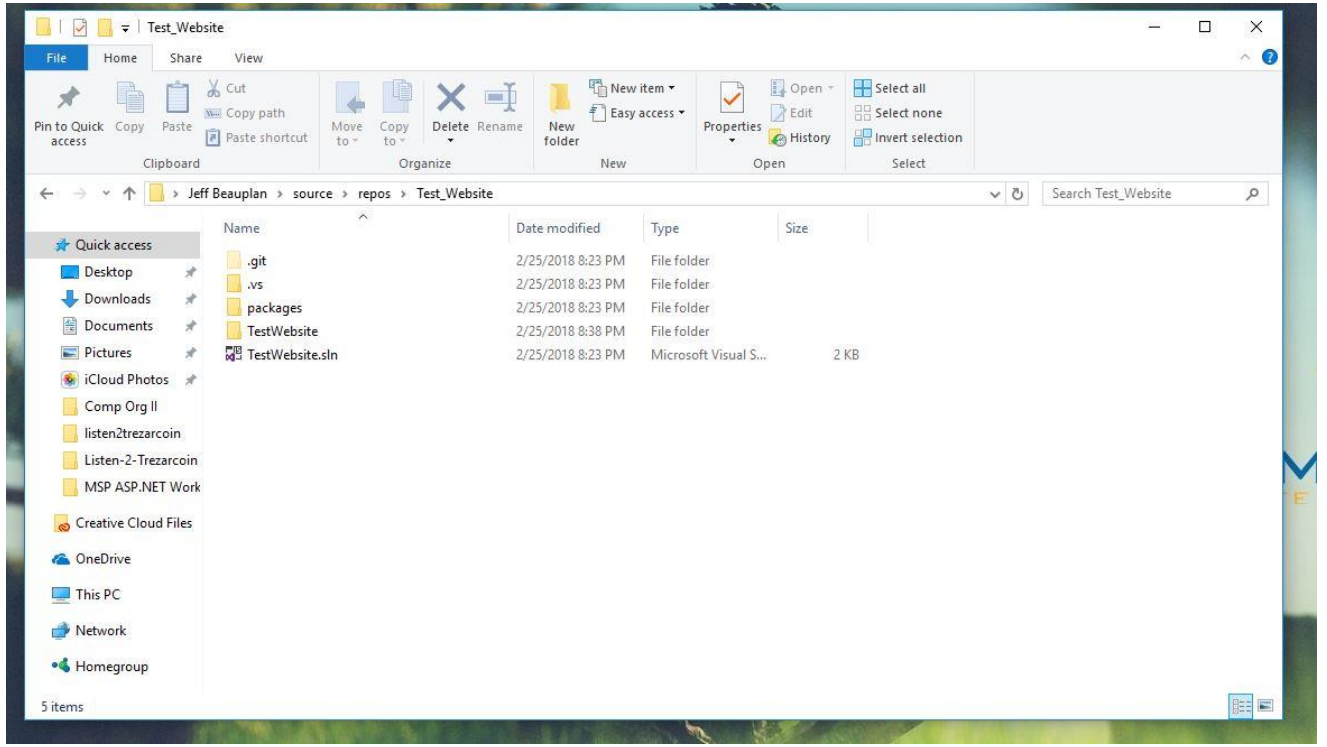


- Log into your Visual Studio Team Services Account
- Click **New Project**

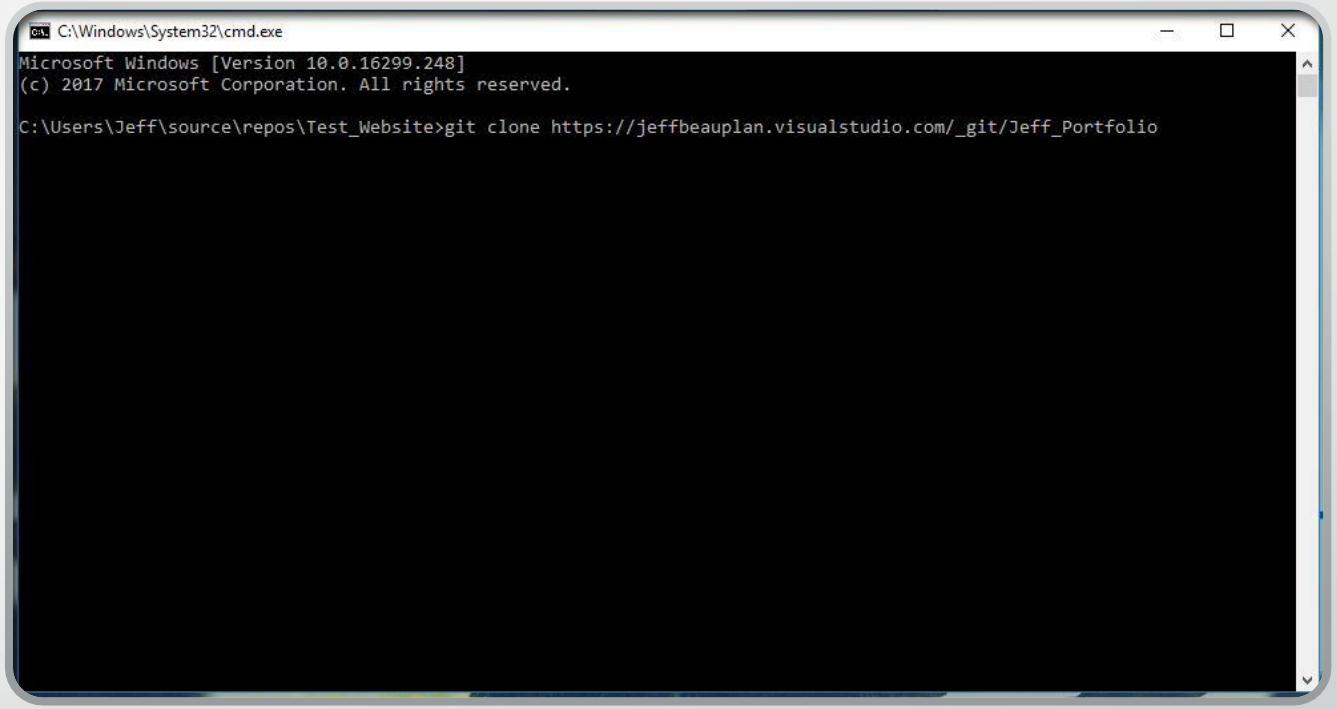


- Once your Project is created its now time to clone the repository to your computer
- Copy the HTTPS clone link

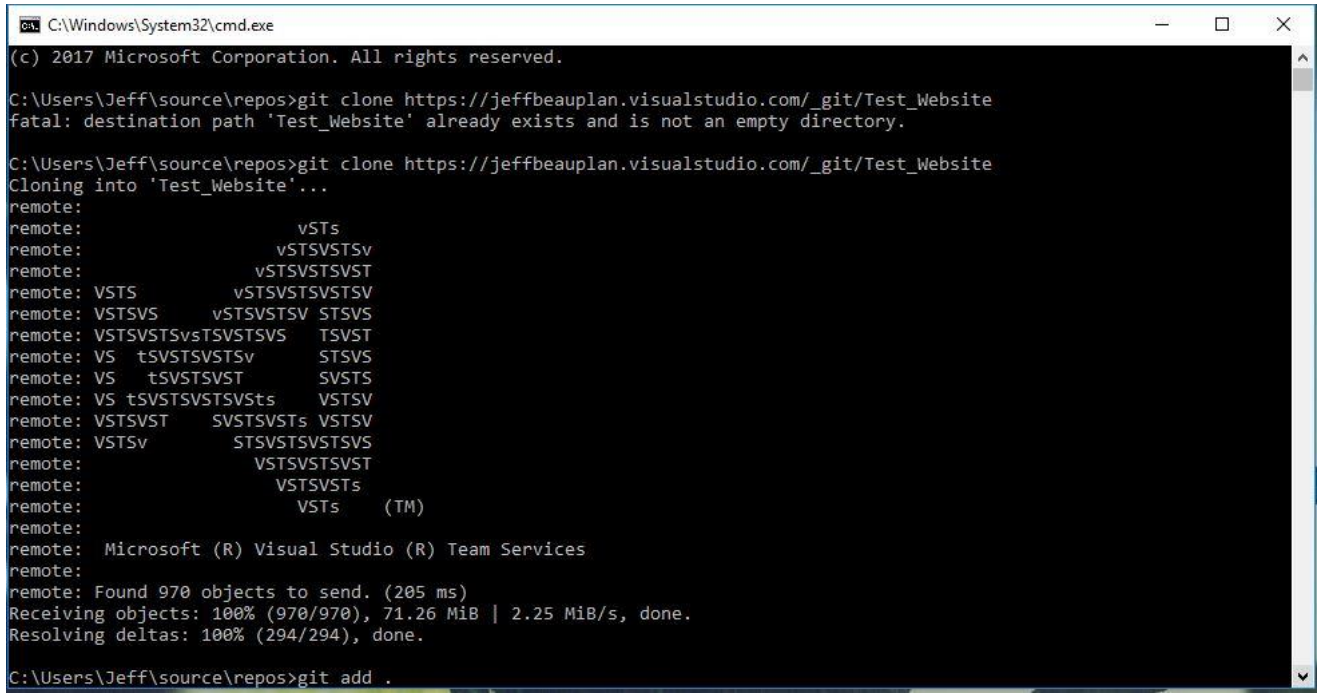
- Navigate to your Visual Studio Project folder for the website



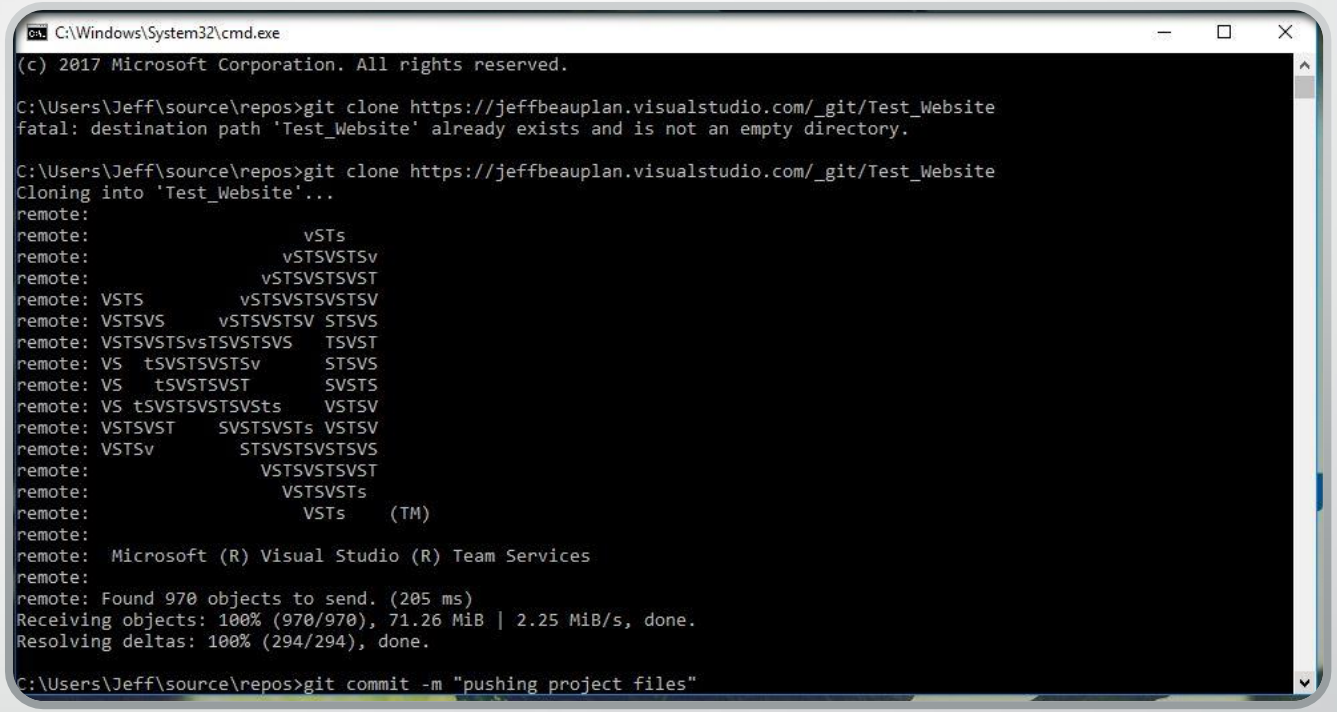
- Open up a git terminal inside of the project folder
- Type **git clone [paste https clone link here]**



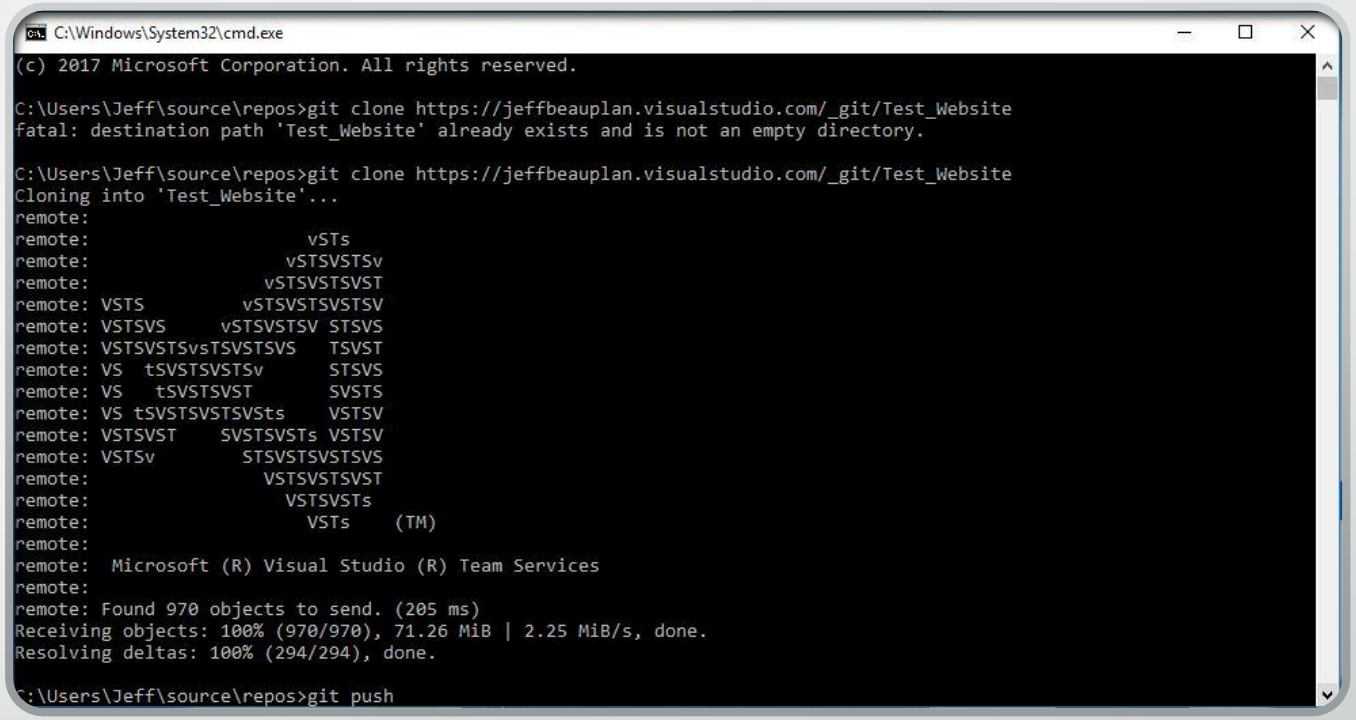
- After cloning the repo its now time to sync your project files with the repo
- Type **git add .**

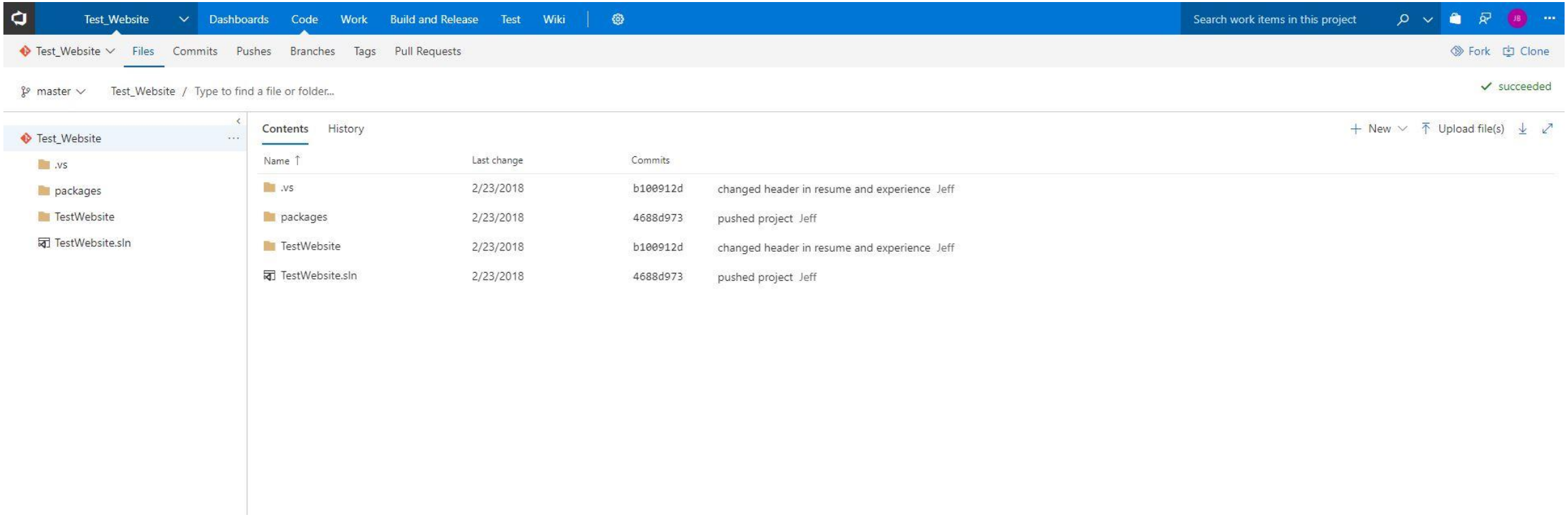


- Type **git commit –m “pushing project files”**

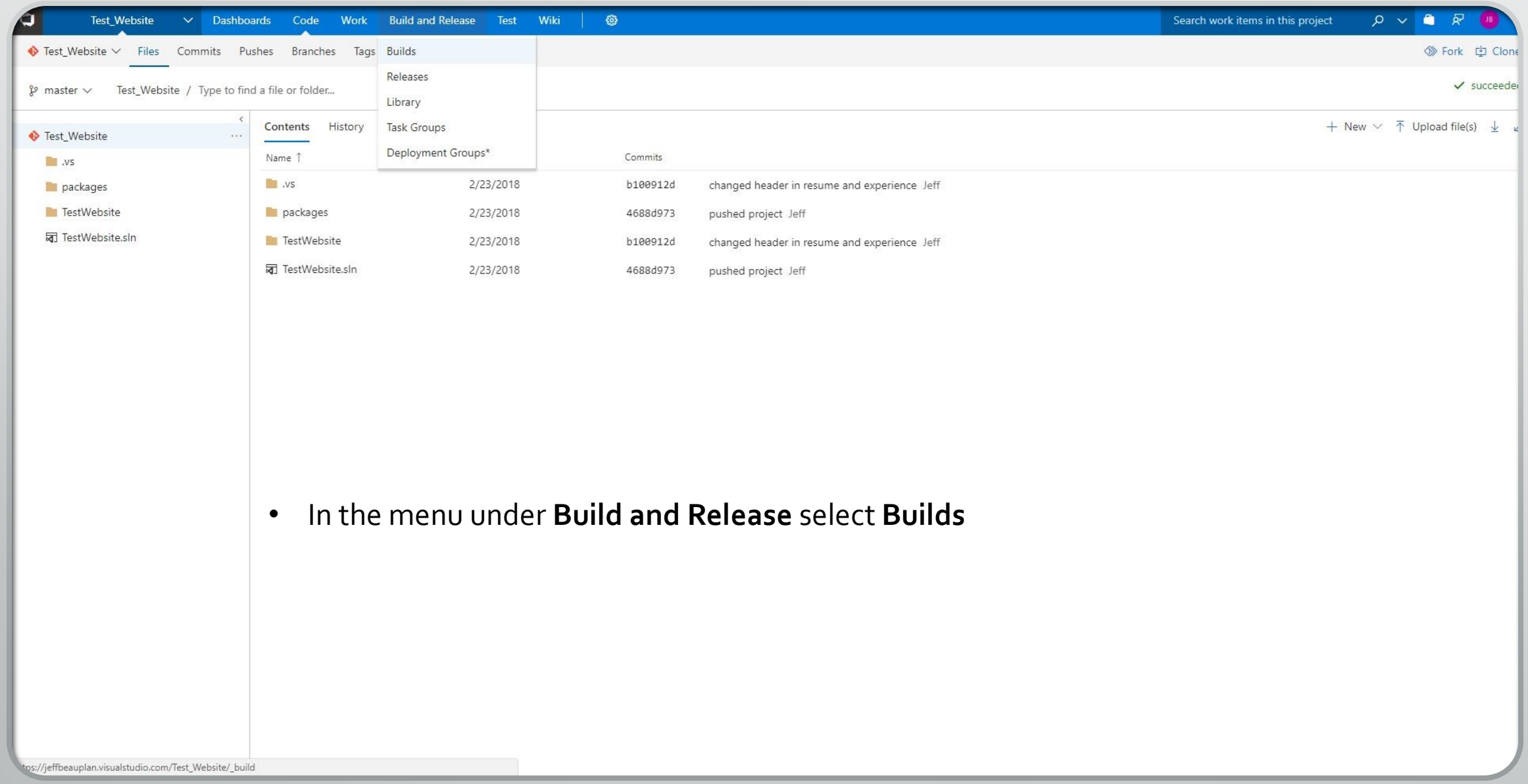


- Type **git push**
- Your visual studio Team Services repo should now be in sync with your visual studio project folder

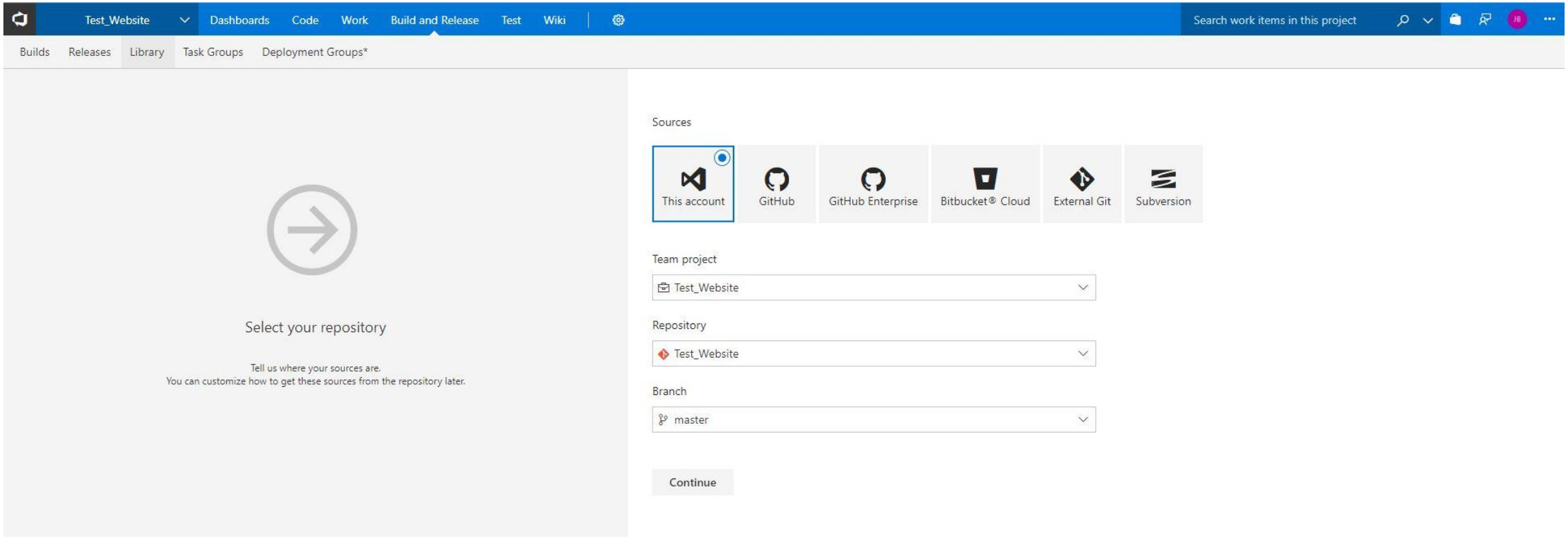




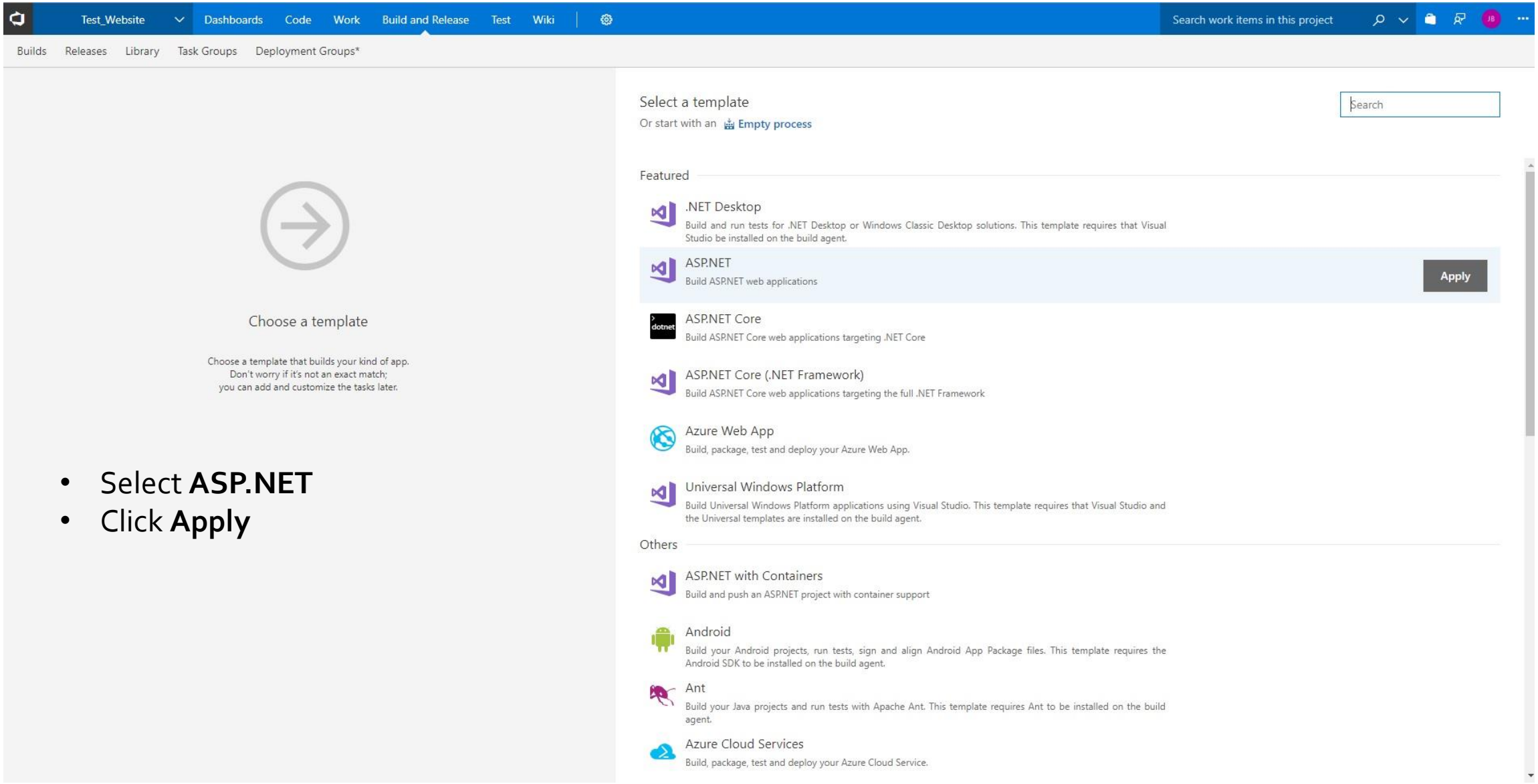
You should now be able to see your project files on the Visual Studio website



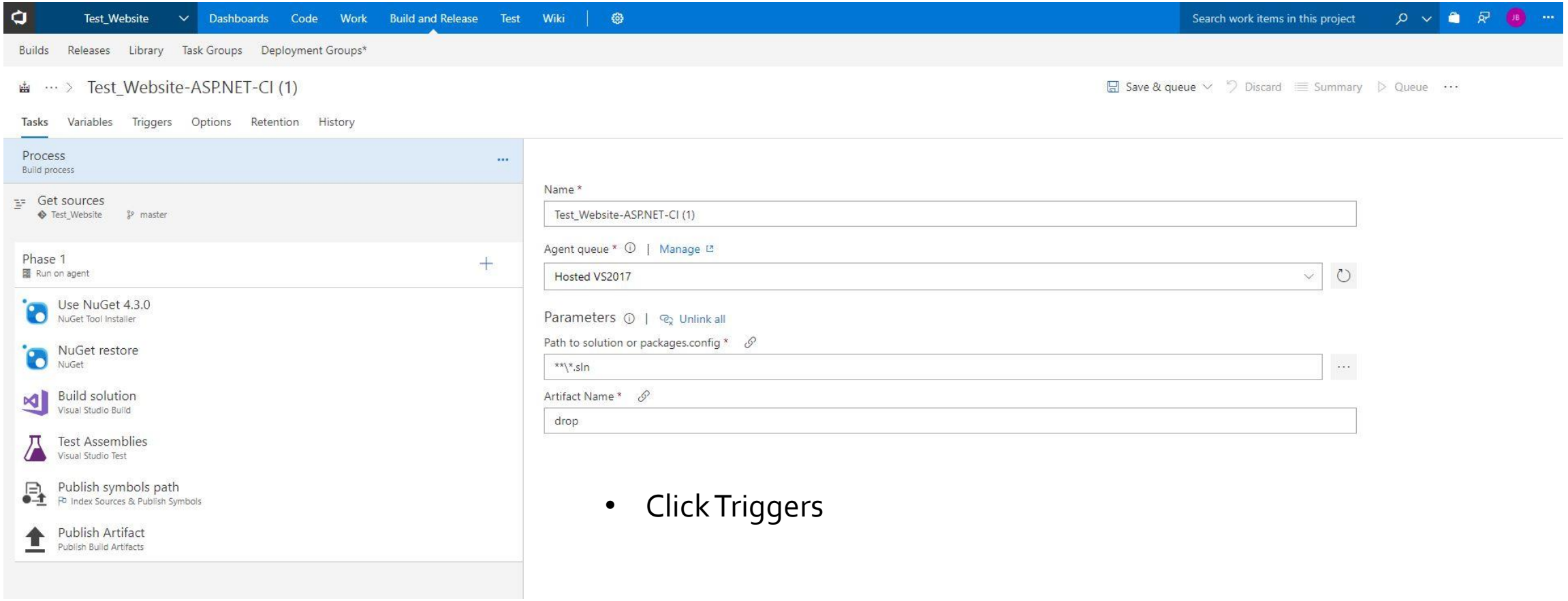
- In the menu under **Build and Release** select **Builds**



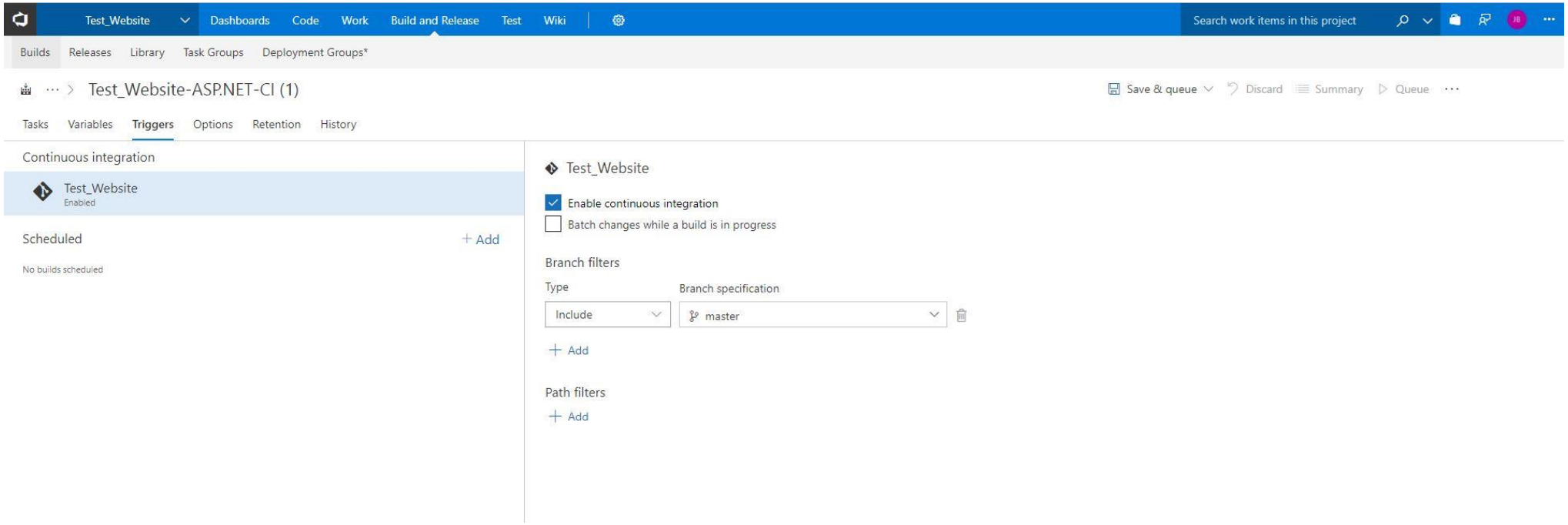
- Make sure the correct project and repository is selected
- Click **Continue**



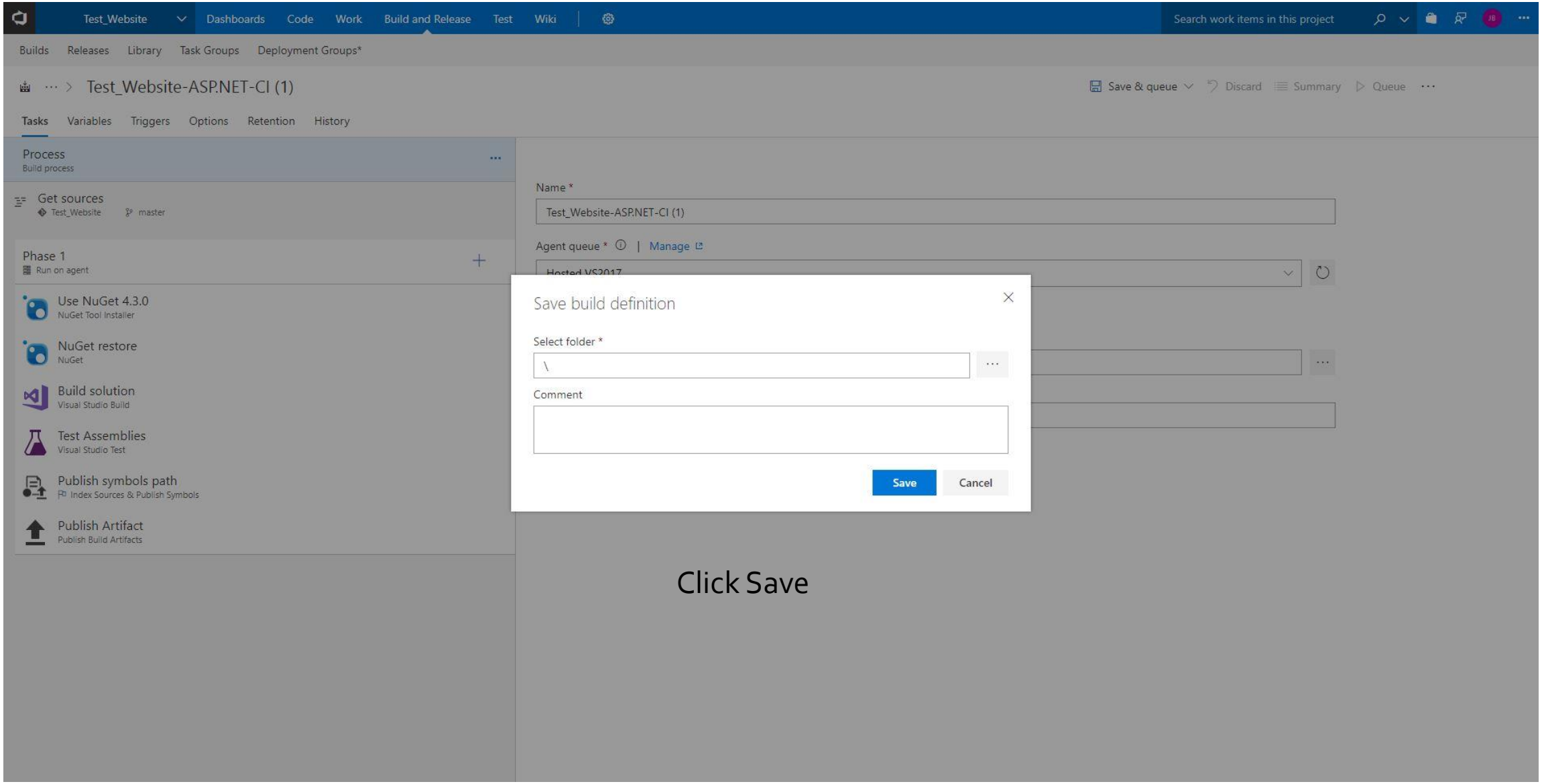
- Select **ASP.NET**
- Click **Apply**



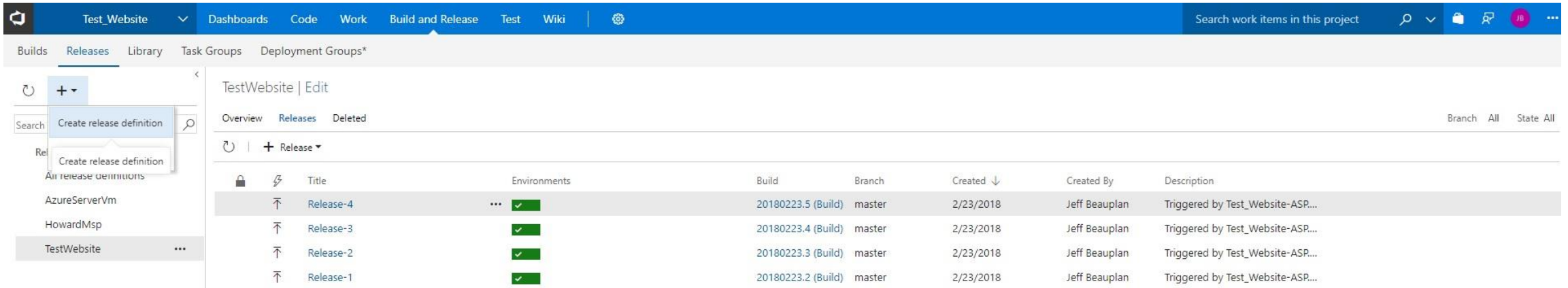
- Click Triggers



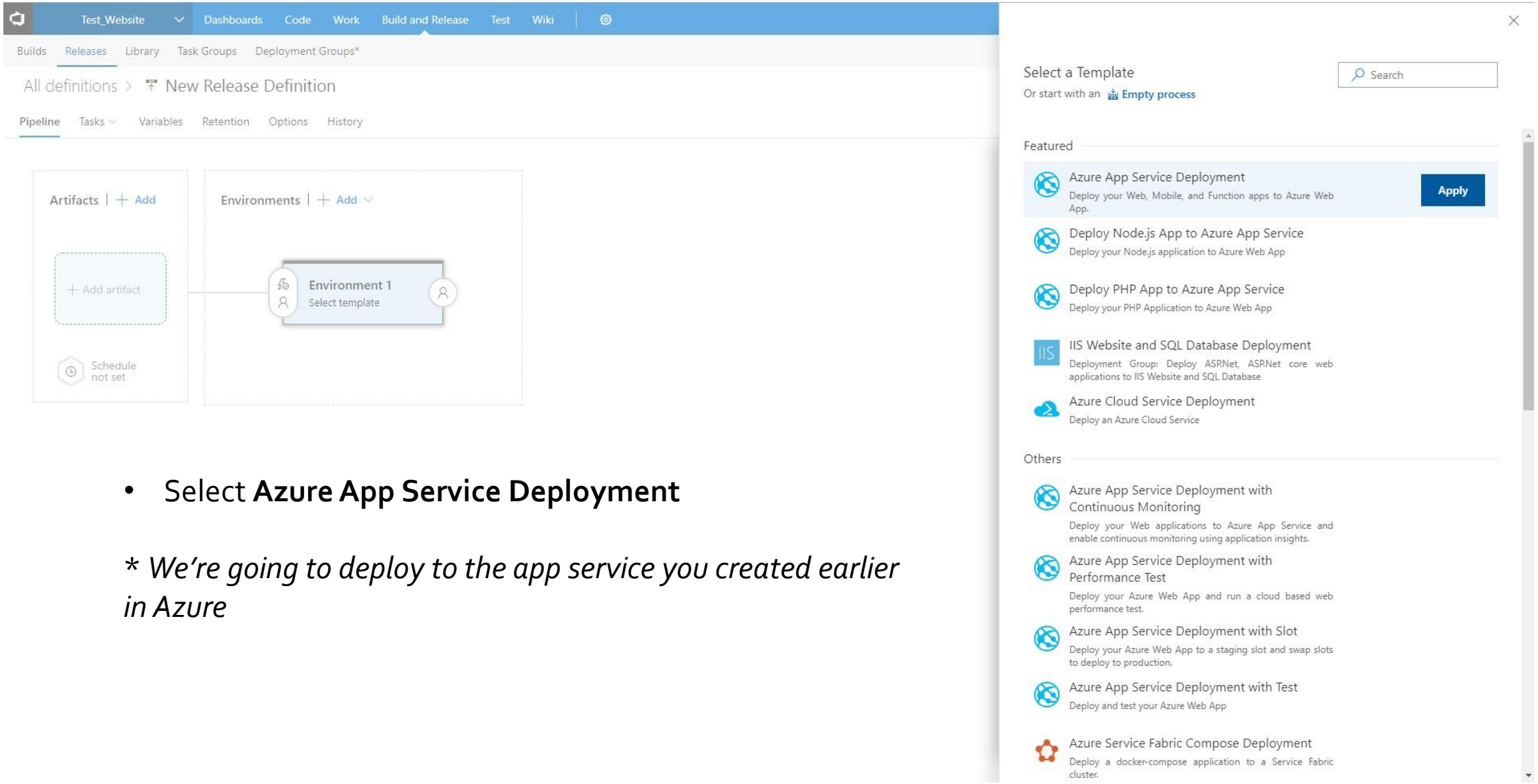
- Select **Enable continuous integration**
- Click **Save & queue**


Test_Website
Dashboards
Code
Work
Build and Release
Test
Wiki
Search work items in this project
Builds
Releases
Library
Task Groups
Deployment Groups*
Test_Website-ASP.NET-CI (1)
Save & queue
Discard
Summary
Queue
Tasks
Variables
Triggers
Options
Retention
History
Process
Build process
Get sources
Test_Website
master
Phase 1
Run on agent
Use NuGet 4.3.0
NuGet Tool Installer
NuGet restore
NuGet
Build solution
Visual Studio Build
Test Assemblies
Visual Studio Test
Publish symbols path
Index Sources & Publish Symbols
Publish Artifact
Publish Build Artifacts
Name *
Test_Website-ASP.NET-CI (1)
Agent queue *
Manage
Save build definition
Select folder *
\
Comment
Save
Cancel
Click Save

Your first build should now be in progress

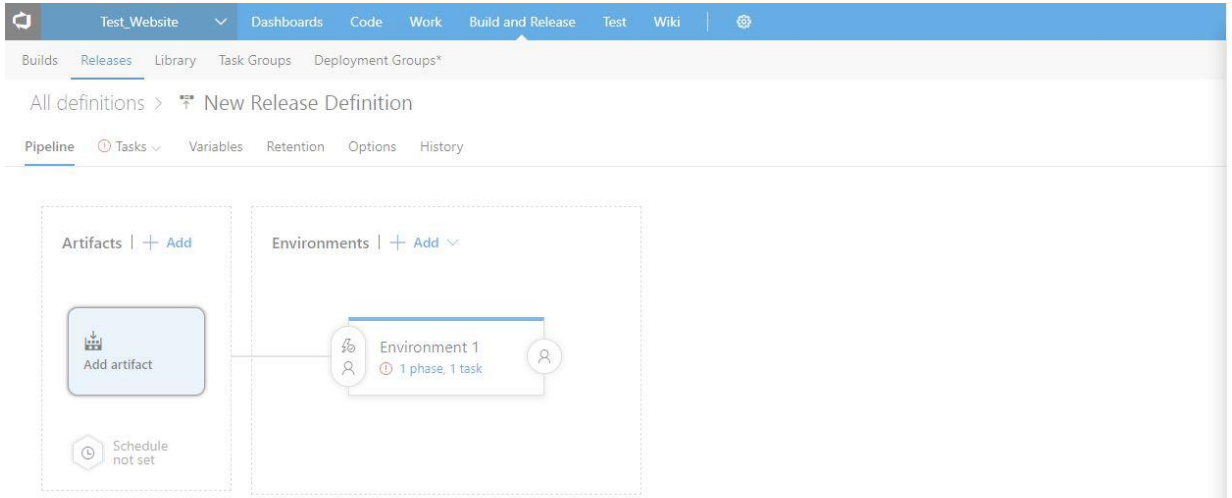


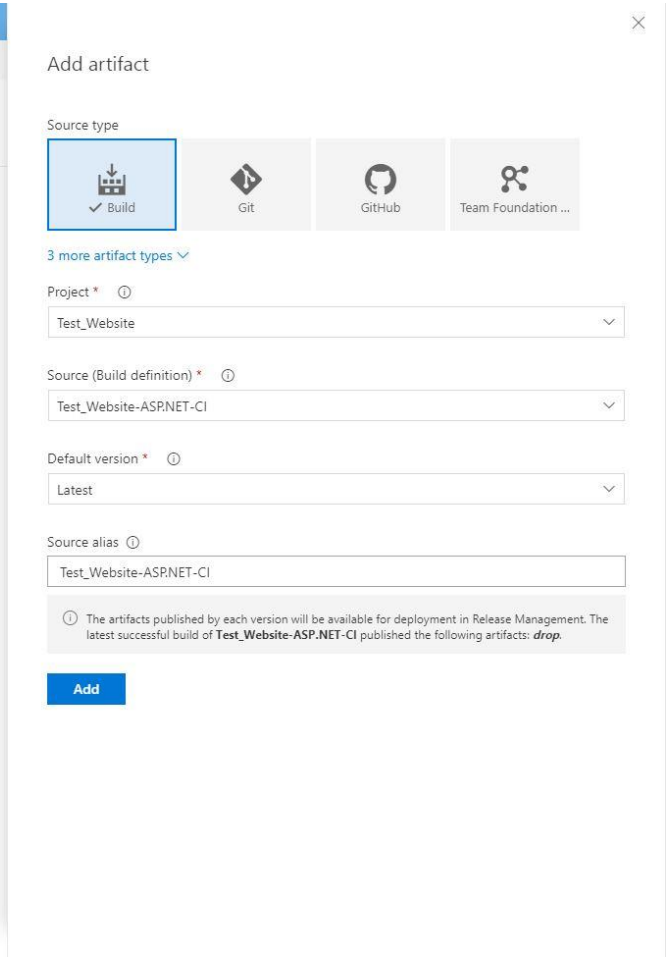
- Click on **Release** from the **Build and Release** option from the top menu
- Click the **+** icon and select **Create release definition**



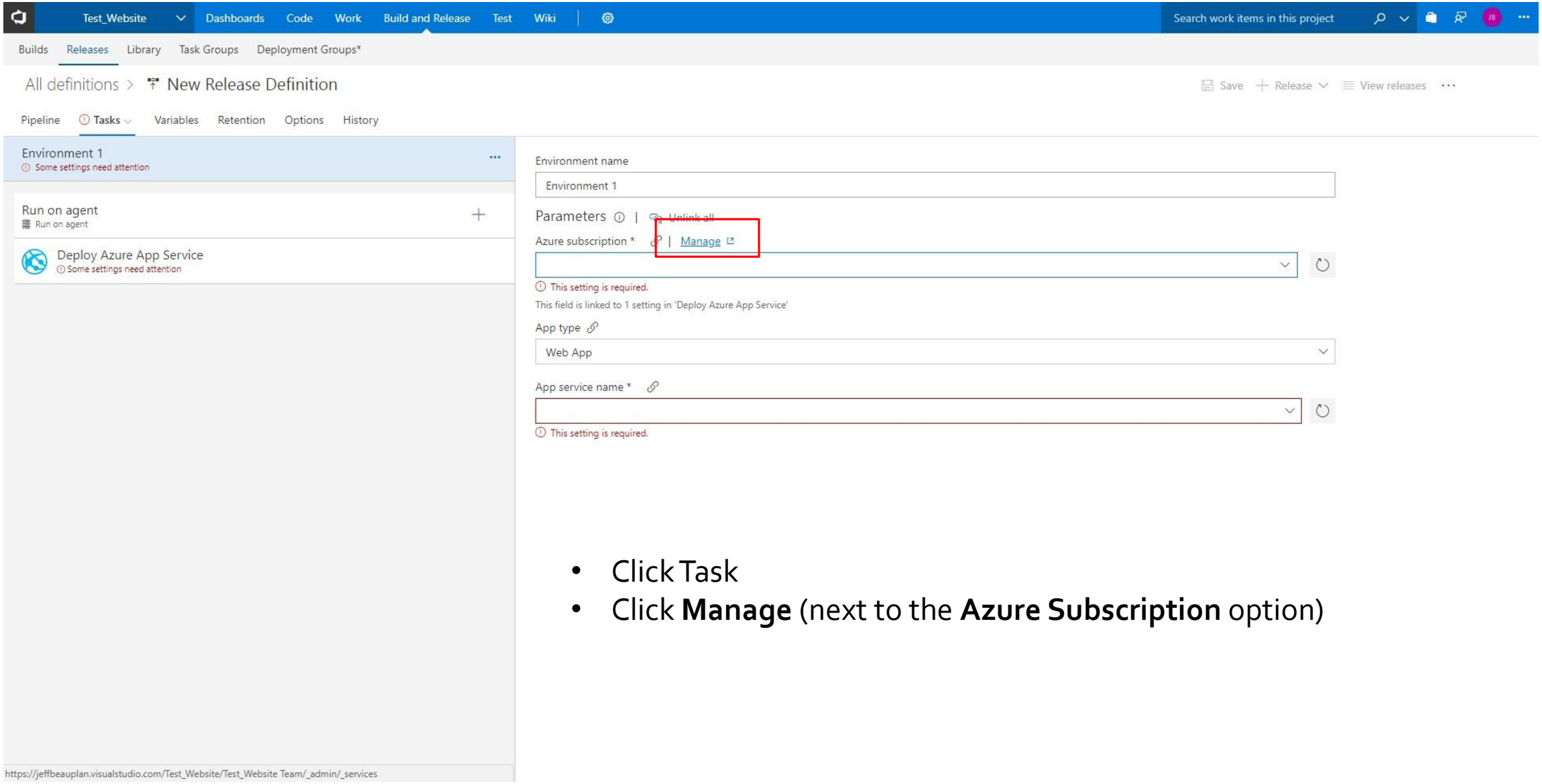
- Select **Azure App Service Deployment**

** We're going to deploy to the app service you created earlier in Azure*

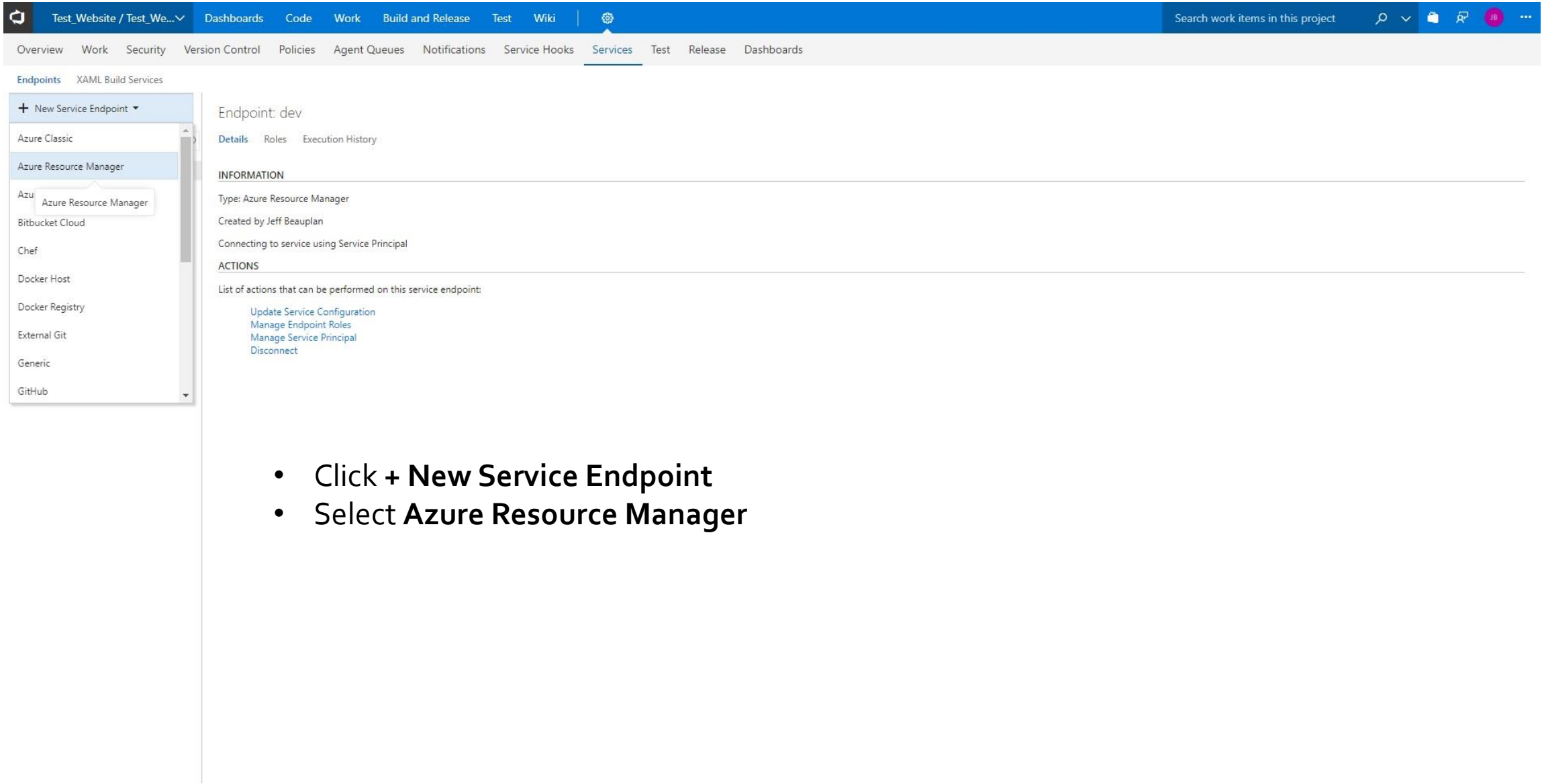




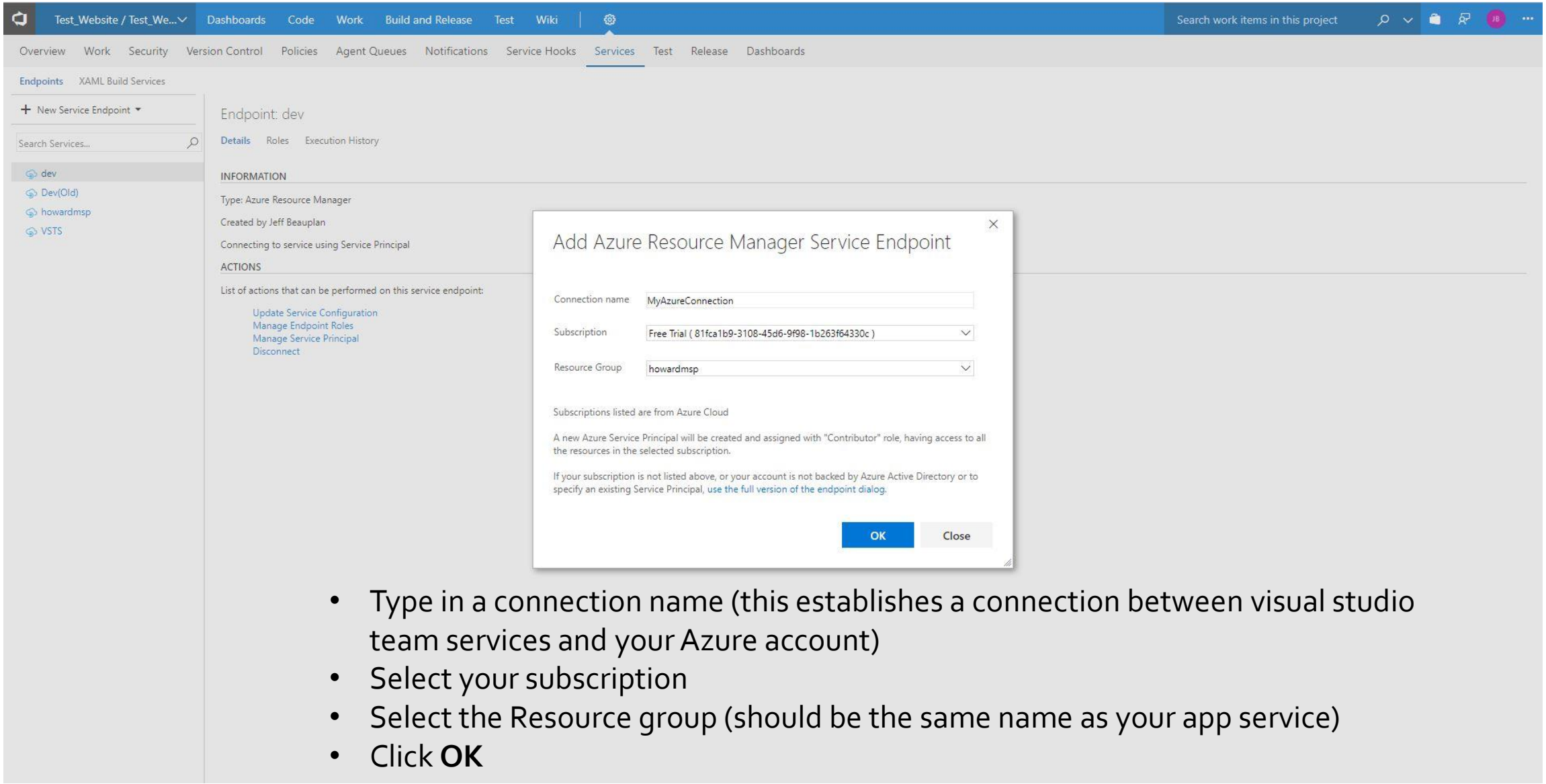
- Click **Add artifact**
- Select the build definition we created earlier
- Click **Add**



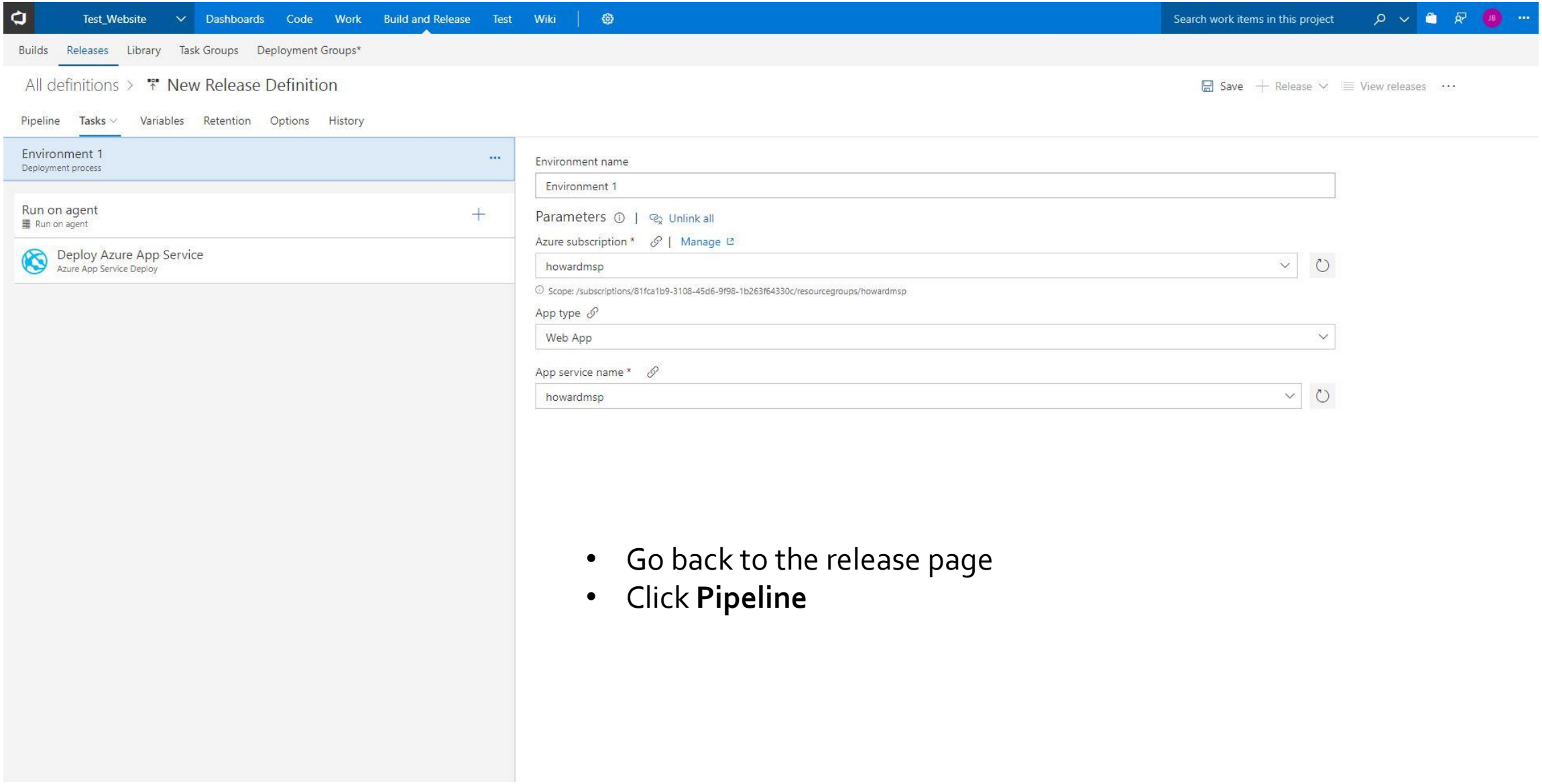
- Click Task
- Click **Manage** (next to the **Azure Subscription** option)



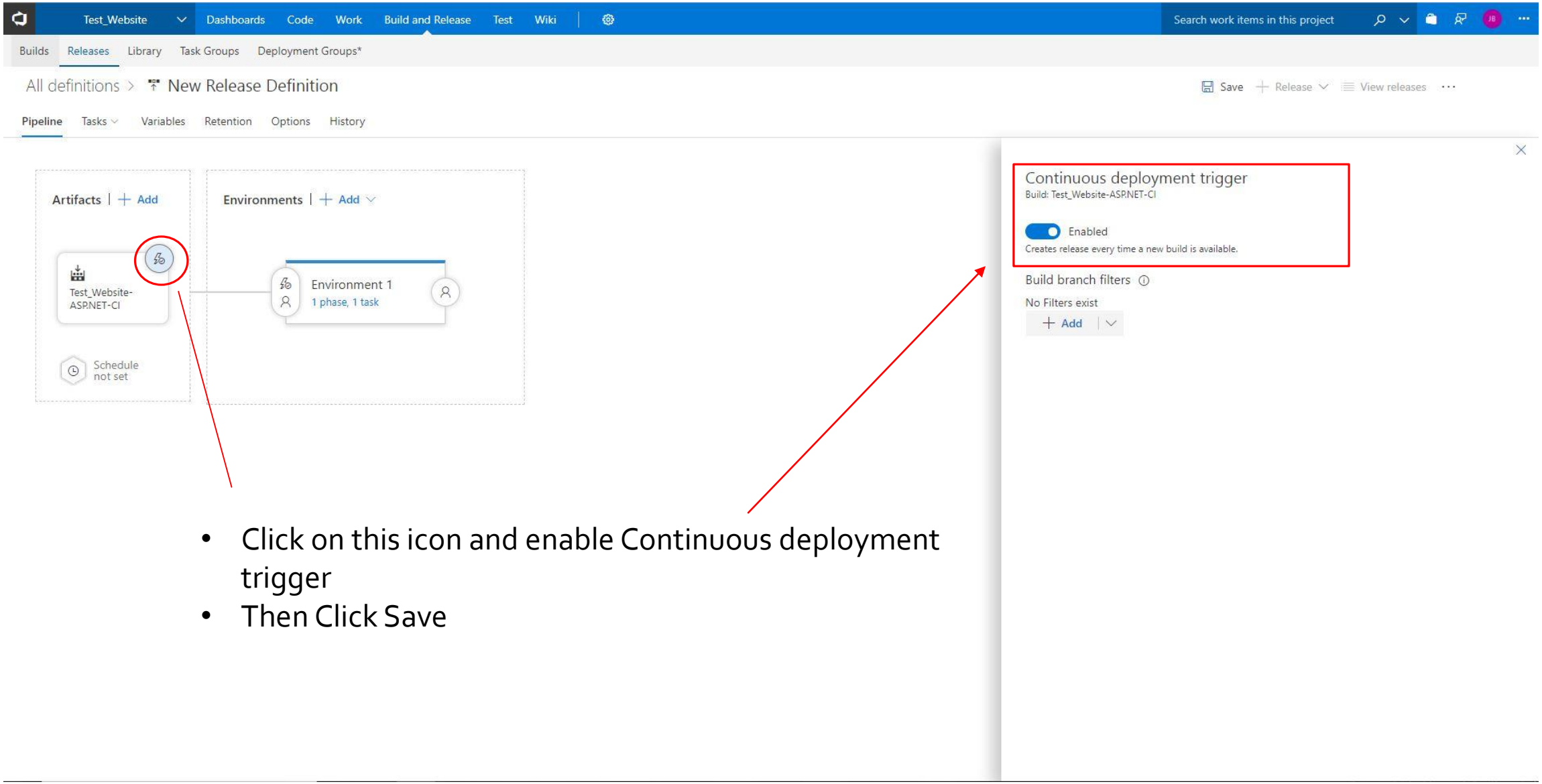
- Click **+ New Service Endpoint**
- Select **Azure Resource Manager**



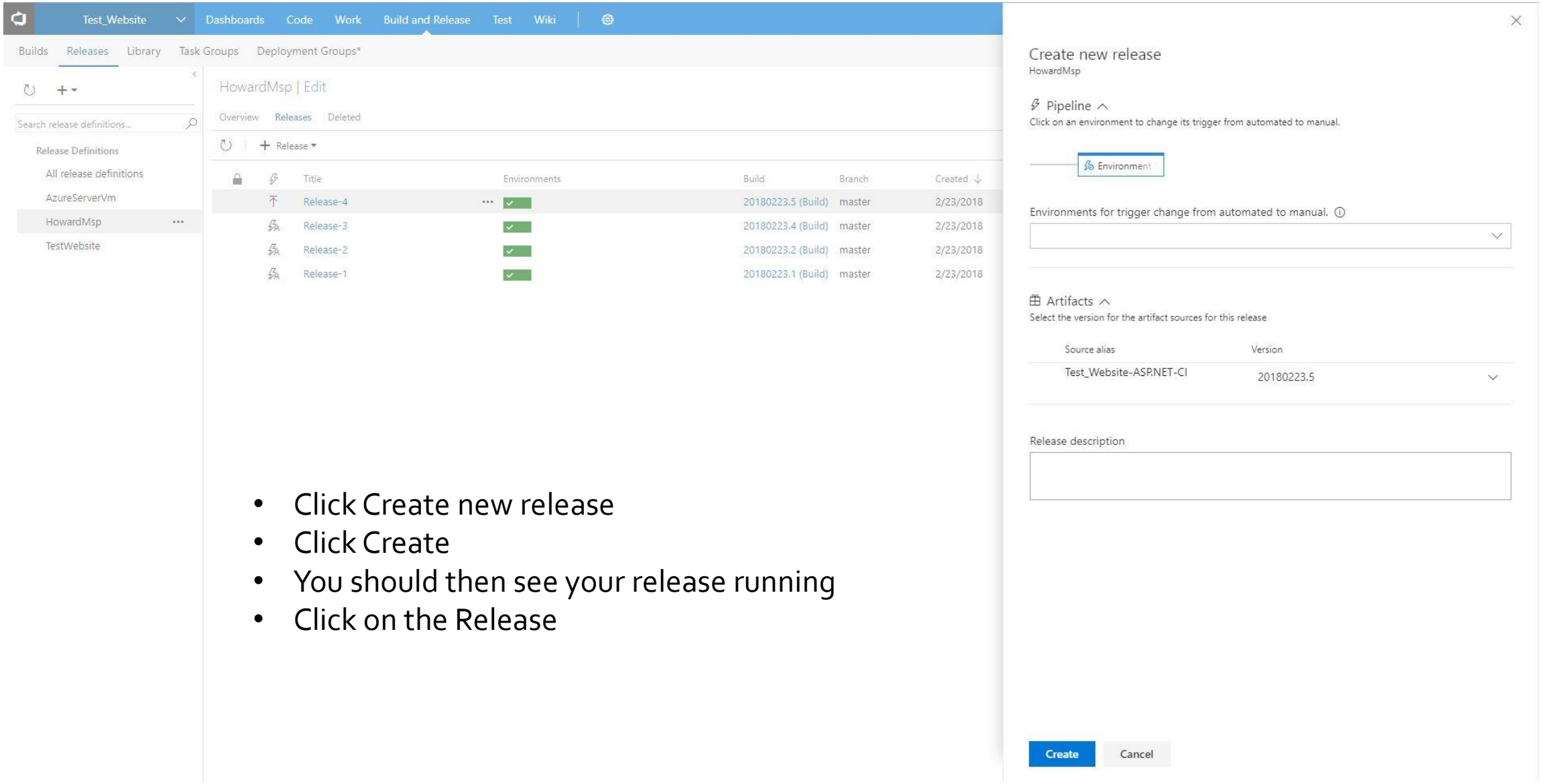
- Type in a connection name (this establishes a connection between visual studio team services and your Azure account)
- Select your subscription
- Select the Resource group (should be the same name as your app service)
- Click **OK**



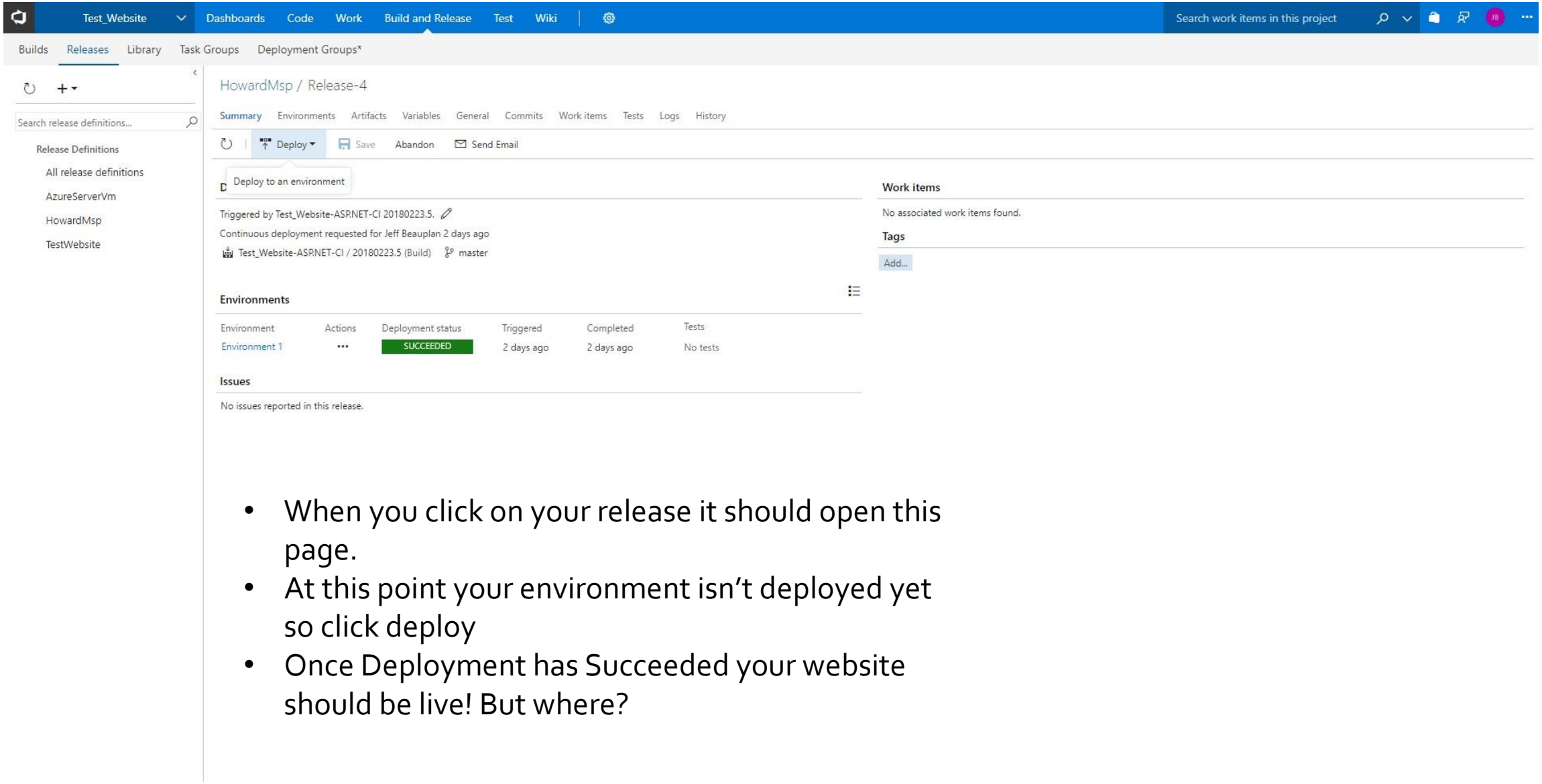
- Go back to the release page
- Click **Pipeline**



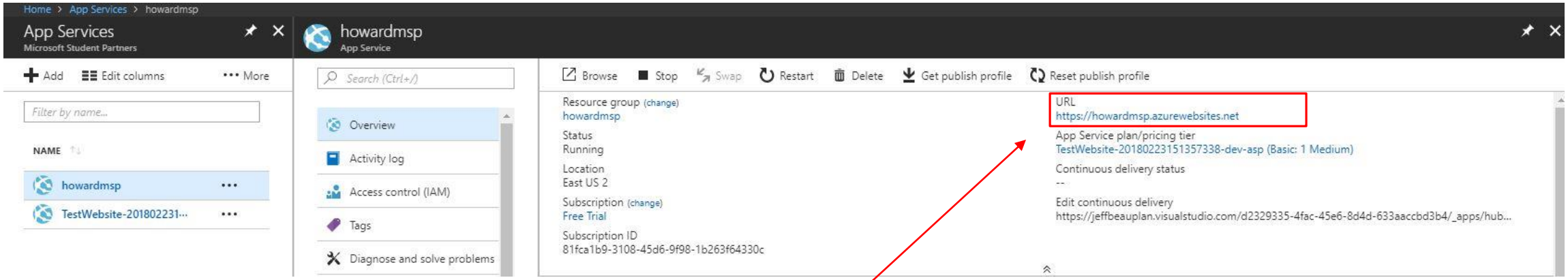
- Click on this icon and enable Continuous deployment trigger
- Then Click Save



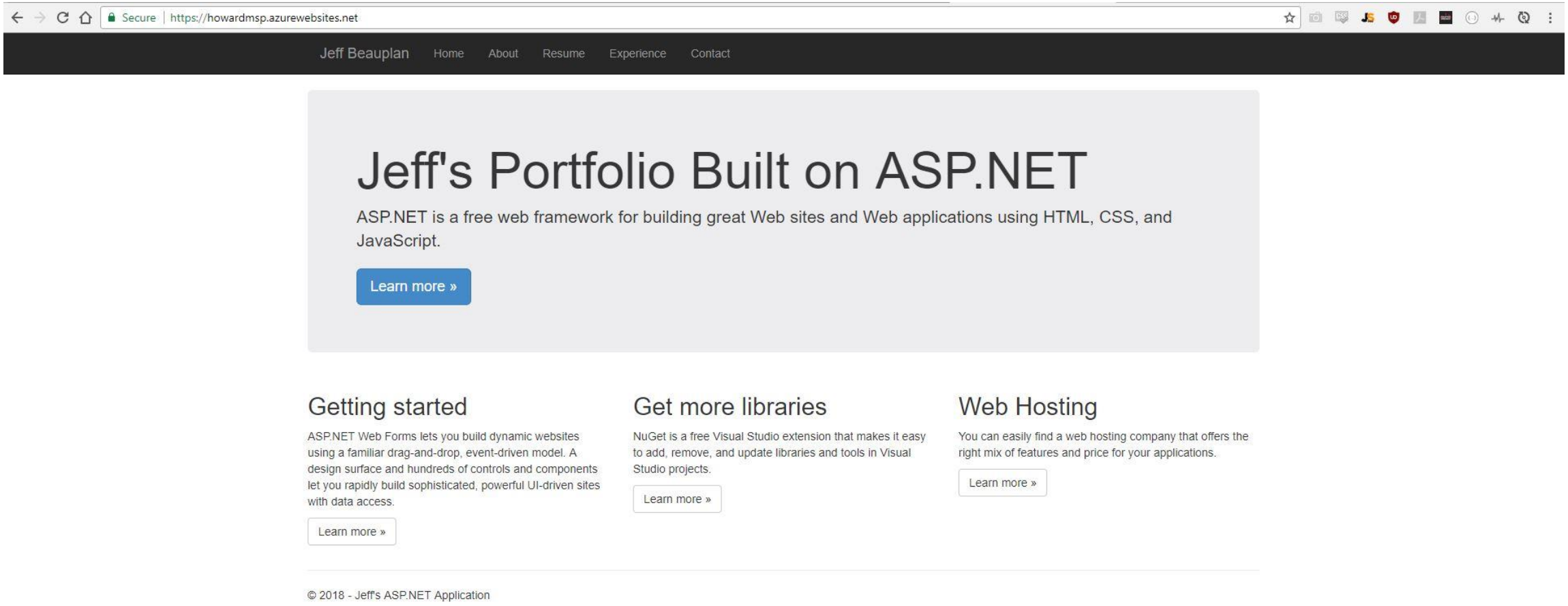
- Click Create new release
- Click Create
- You should then see your release running
- Click on the Release



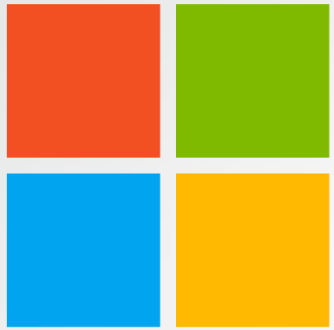
- When you click on your release it should open this page.
- At this point your environment isn't deployed yet so click deploy
- Once Deployment has Succeeded your website should be live! But where?



- Under App Services in Azure select your app service and click overview
- The URL is the link to your website



Done! Website is live! Congrats you've now built and deployed a website to the cloud



Microsoft

ASP.NET Workshop

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Jeff Beauplan

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