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Article

Adding Application Insight For An Existing ASP.NET Web Application

By **Abdul Rasheed Feroz Khan** on **Oct 24 2016**

Introduction

This article will guide you to add Application Insight on Azure for an existing ASP.NET Web Application. If you are starting a new project or have an existing Web Application and want to use Application Insights, Visual Studio 2013 and later now has a built-in capability to add Application Insights to your Application.

Note

Here, I will be working with a Web app, which was already built by me namely “MyWebsite”.

The links are given below for the reference.

- Click here for kick-start to Application Insights on Microsoft Azure.
- Click here for creating an Application Insight on Microsoft Azure.
- Click here for configuring your Web Application to use Application Insight.

Pre-requisites

1. Microsoft Azure account- Click here to get a free Microsoft Azure account. (this will be a temporary one).
2. Visual Studio 2015– Click here to download Visual Studio 2015.

Follow the steps given below.

Step 1

Open “MyWebsite” ASP.NET Web Application in Visual studio 2013.

Note

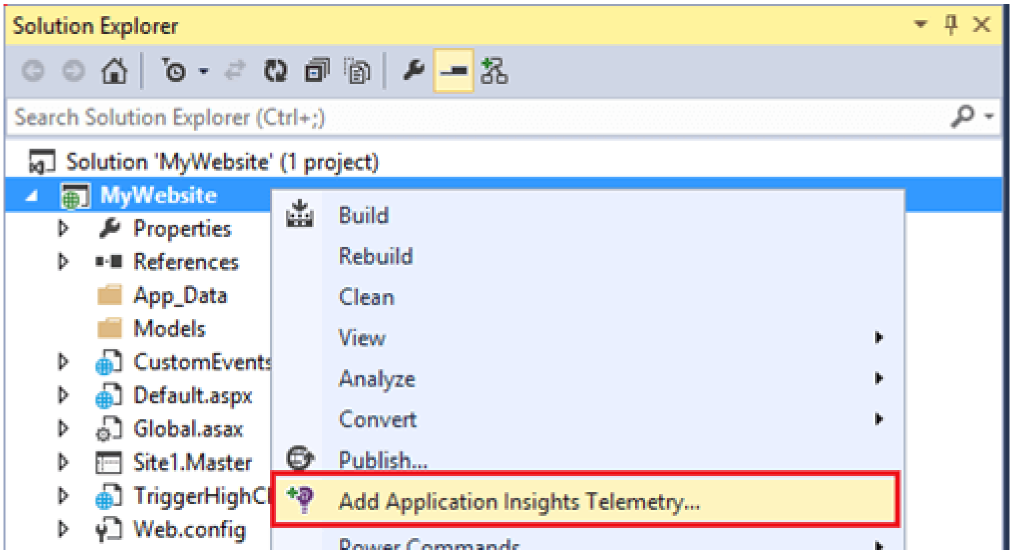
This is an existing ASP.NET Web Application, which you already have and you want to add “Application Insights” to capture telemetry data.

Step 2

Go to “Solution Explorer” and right click on the project “MyWebsite” and you will see “Add Application Insights Telemetry”.

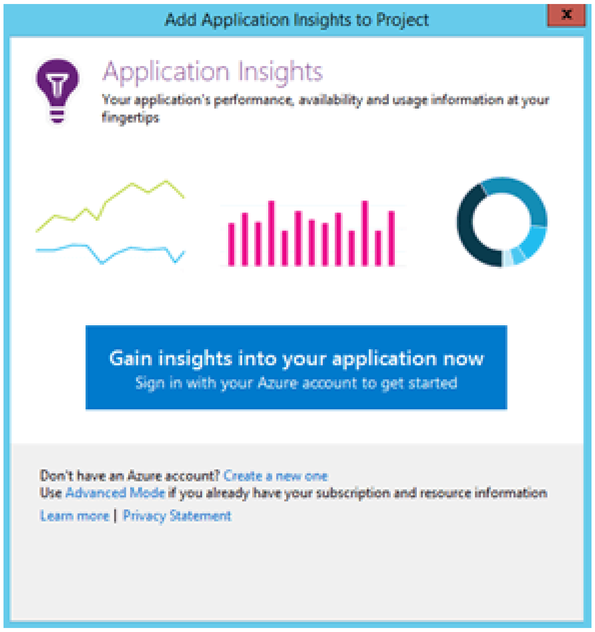
Note

You need “Visual Studio 2013 Update 3” or more to get this option in IDE.



Click “Add Application Insights Telemetry” and it will show option to “Sign-in” to Azure account to proceed further.

Click “Sign-In with your Azure Account" to get started. Enter Microsoft account credentials to login:

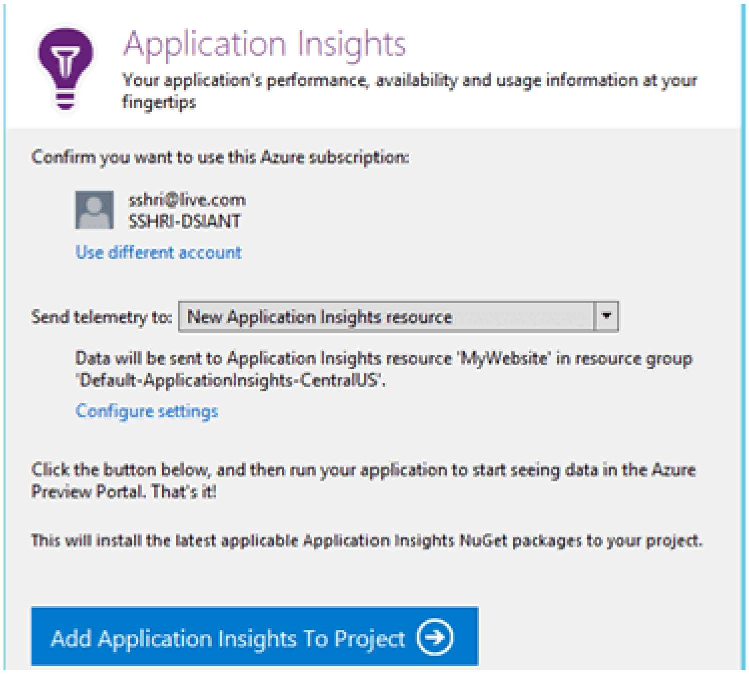

Add Application Insights to Project
Application Insights
Gain insights into your application now
Sign in with your Azure account to get started

Your application's performance, availability and usage information at your fingertips

Don't have an Azure account? Create a new one
Use Advanced Mode if you already have your subscription and resource information
Learn more | Privacy Statement

Step 3

After successfully signing in, you will get the options to either use an existing “Application Insight” resource or create a new.



Application Insights

Your application's performance, availability and usage information at your fingertips

Confirm you want to use this Azure subscription:

sshri@live.com
SSHRI-DSIANT

Use different account

Send telemetry to: New Application Insights resource

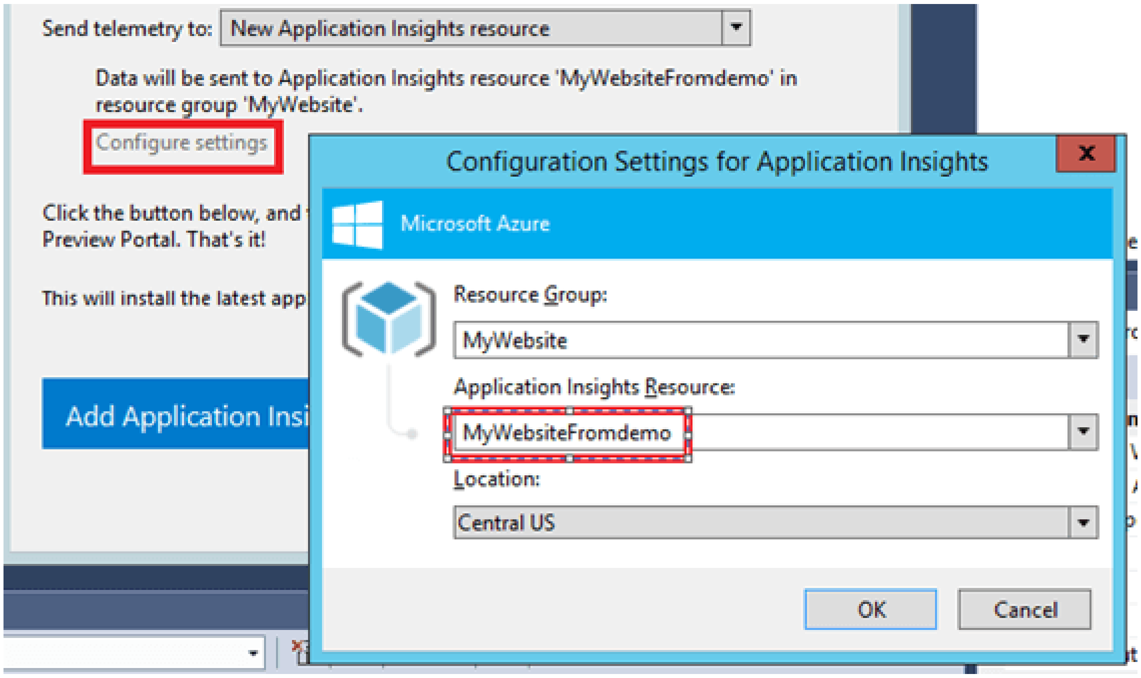
Data will be sent to Application Insights resource 'MyWebsite' in resource group 'Default-ApplicationInsights-CentralUS'.

Configure settings

Click the button below, and then run your application to start seeing data in the Azure Preview Portal. That's it!

This will install the latest applicable Application Insights NuGet packages to your project.

You can also click “Configure settings” to enter the specific values.



Send telemetry to: New Application Insights resource

Data will be sent to Application Insights resource 'MyWebsiteFromdemo' in resource group 'MyWebsite'.

Configure settings

Click the button below, and

Preview Portal. That's it!

This will install the latest app

Configuration Settings for Application Insights

Microsoft Azure

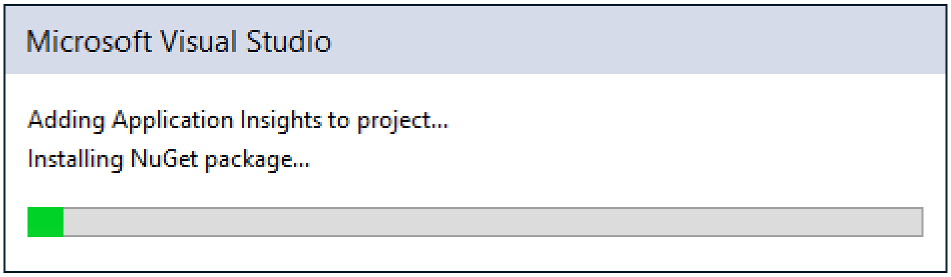
Resource Group: MyWebsite

Application Insights Resource: MyWebsiteFromdemo

Location: Central US

Step 4

After entering all the values, click on the blue button “Add Application Insights To Project”. You will observe that Visual Studio will be adding a few “NuGet Packages” to the project to enable it to use “Application Insights”.



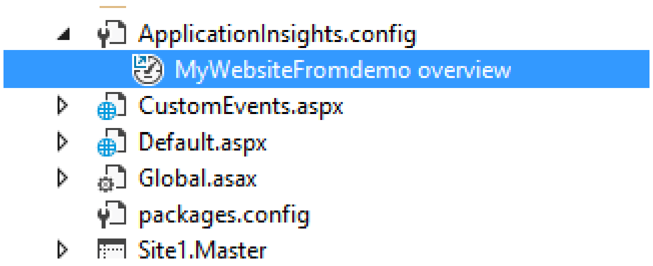
Microsoft Visual Studio

Adding Application Insights to project...

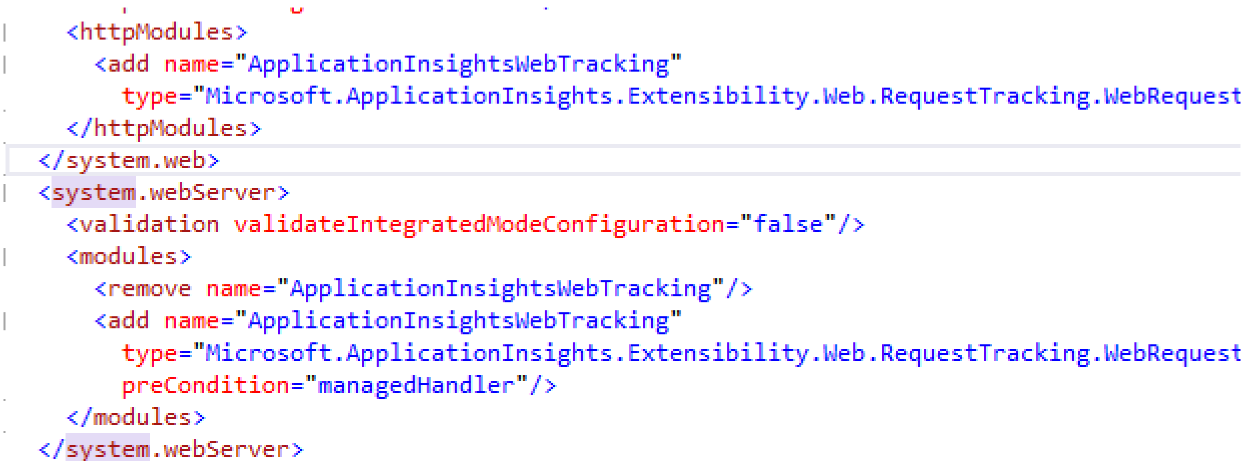
Installing NuGet package...

Step 5

After Visual Studio has finished adding “Application Insights” to your project, you will see couple of changes. First, you will see a configuration file added to your project.



Open Web.config file and check the modules added to the configuration.

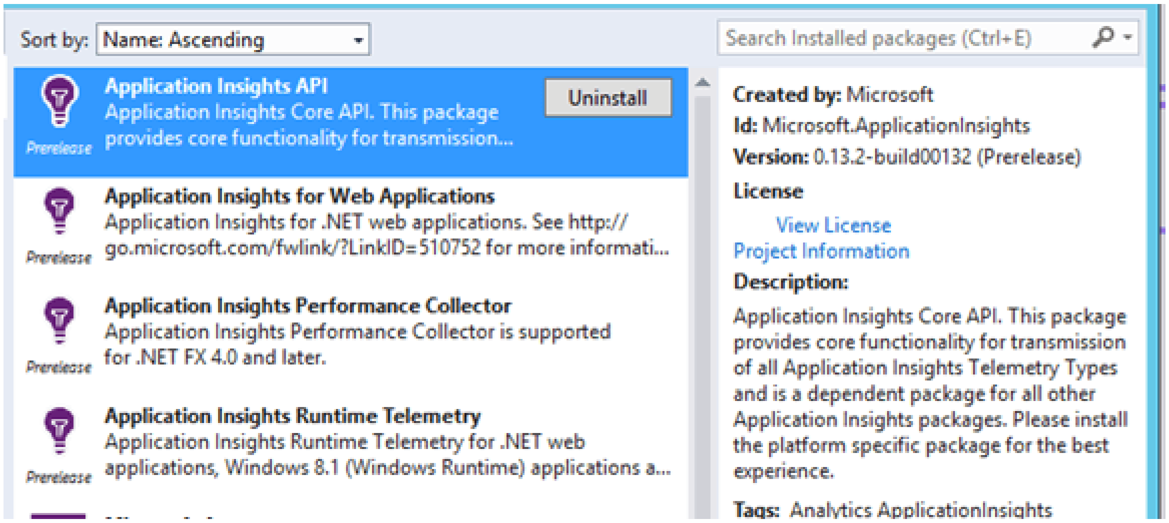


```
    <httpModules>
      <add name="ApplicationInsightsWebTracking"
        type="Microsoft.ApplicationInsights.Extensibility.Web.RequestTracking.WebRequest
    </httpModules>
  </system.web>
  <system.webServer>
    <validation validateIntegratedModeConfiguration="false"/>
    <modules>
      <remove name="ApplicationInsightsWebTracking"/>
      <add name="ApplicationInsightsWebTracking"
        type="Microsoft.ApplicationInsights.Extensibility.Web.RequestTracking.WebRequest
        preCondition="managedHandler"/>
    </modules>
  </system.webServer>
```

Step 6

Now, right click on the project in Solution Explorer and click “Manager NuGet Packages”

In the “Installed Packages” section, you will see the NuGet Packages installed to enable your Application to use “Application Insights”:



Application Insights API
Application Insights Core API. This package provides core functionality for transmission...

Application Insights for Web Applications
Application Insights for .NET web applications. See http://go.microsoft.com/fwlink/?LinkID=510752 for more informati...

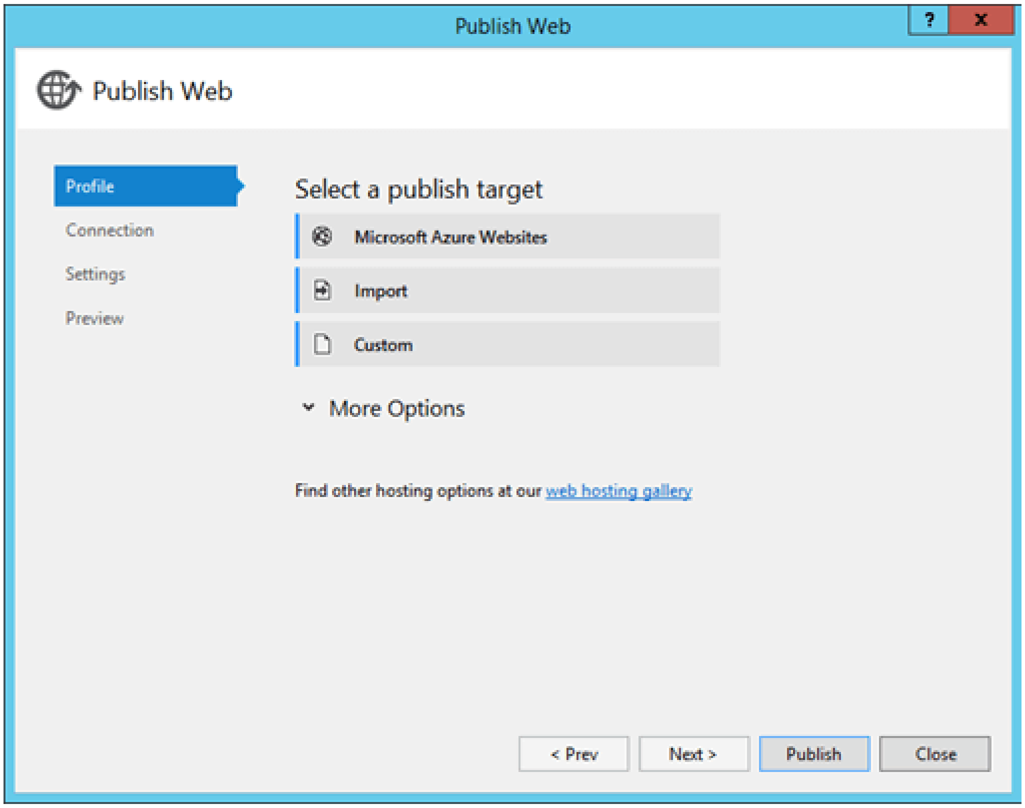
Application Insights Performance Collector
Application Insights Performance Collector is supported for .NET FX 4.0 and later.

Application Insights Runtime Telemetry
Application Insights Runtime Telemetry for .NET web applications, Windows 8.1 (Windows Runtime) applications a...

Created by: Microsoft
Id: Microsoft.ApplicationInsights
Version: 0.13.2-build00132 (Prerelease)
License
View License
Project Information
Description:
Application Insights Core API. This package provides core functionality for transmission of all Application Insights Telemetry Types and is a dependent package for all other Application Insights packages. Please install the platform specific package for the best experience.
Tags: Analytics ApplicationInsights

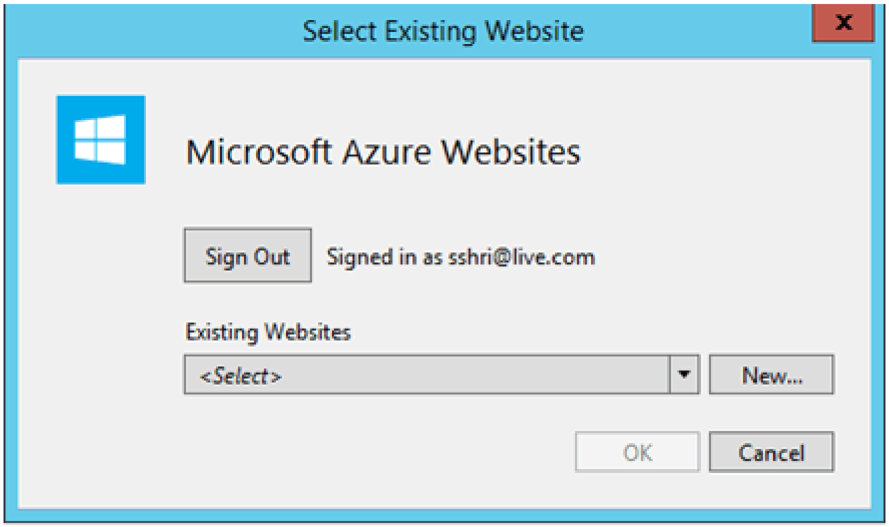
Step 7

Run the Website locally by pressing “Ctrl+F5” to ensure it runs fine locally. Now, we will host this Website on MicroSoft Azue Websites and test it live on Cloud. Right click on the “Website” project in Solution Explorer again and click Publish. Select “Microsoft Azure Websites”.



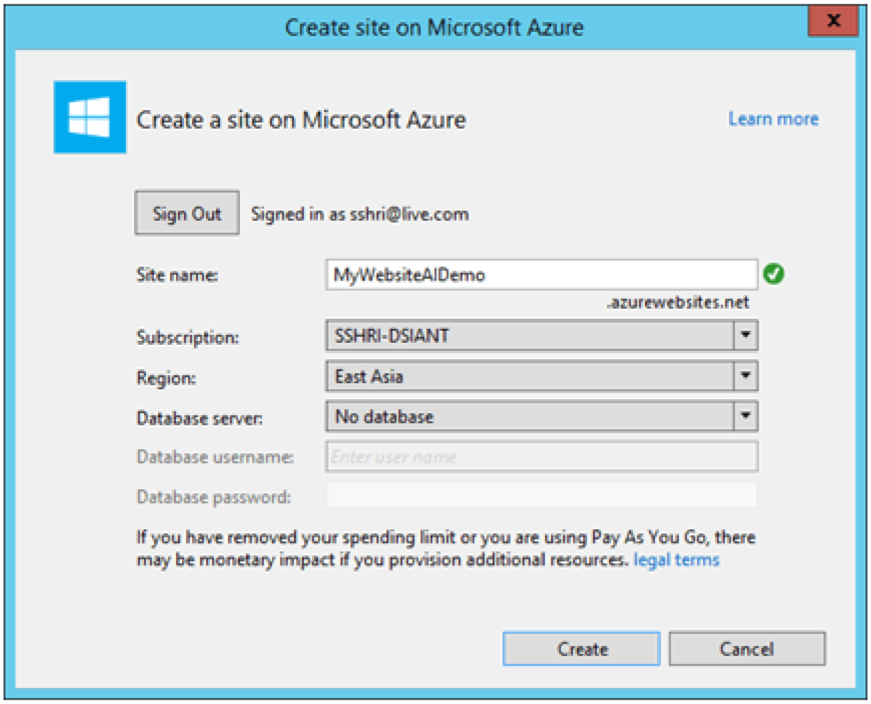
Step 8

This brings up the list of Websites already there and an option to create a new one. Click New.



Signed in as sshri@live.com

Enter the values in the “Create a Site On Microsoft Azure” Window and click create.



Create site on Microsoft Azure

Create a site on Microsoft Azure

Signed in as sshri@live.com

Site name: MyWebsiteAIDemo .azurewebsites.net

Subscription: SSHRI-DSIANT

Region: East Asia

Database server: No database

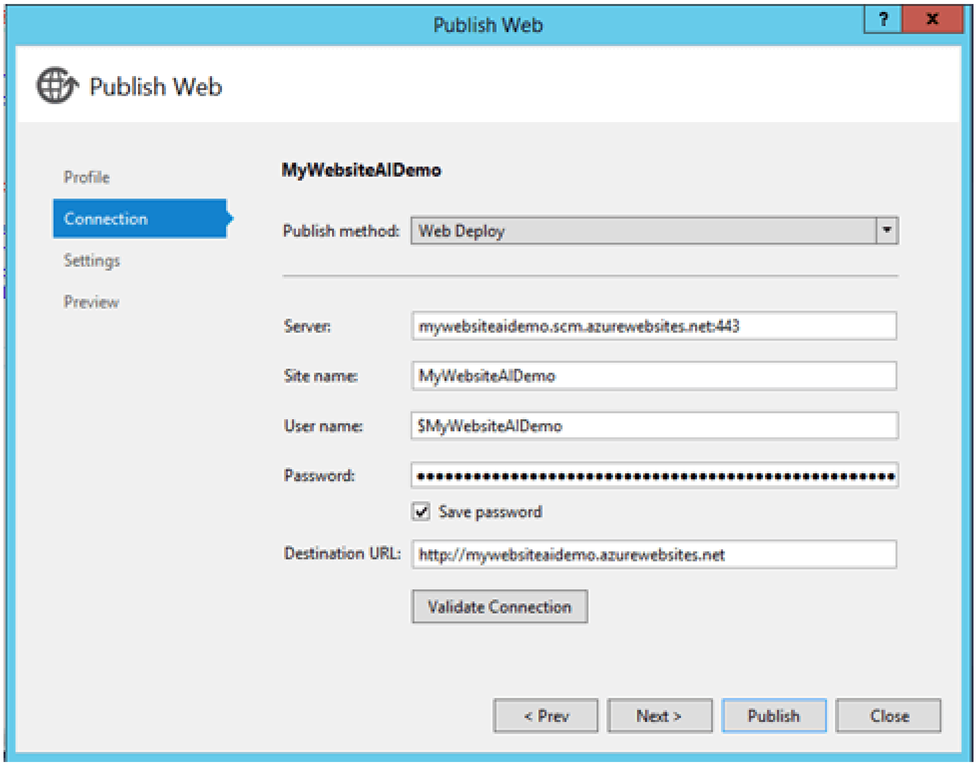
Database username: Enter user name

Database password:

If you have removed your spending limit or you are using Pay As You Go, there may be monetary impact if you provision additional resources. legal terms

Step 9

After creating the Website, Visual Studio will automatically download the publishing project and will present you an option to go ahead with Publish.



Publish Web

MyWebsiteAIDemo

Publish method: Web Deploy

Server: mywebsiteaidemo.scm.azurewebsites.net:443

Site name: MyWebsiteAIDemo

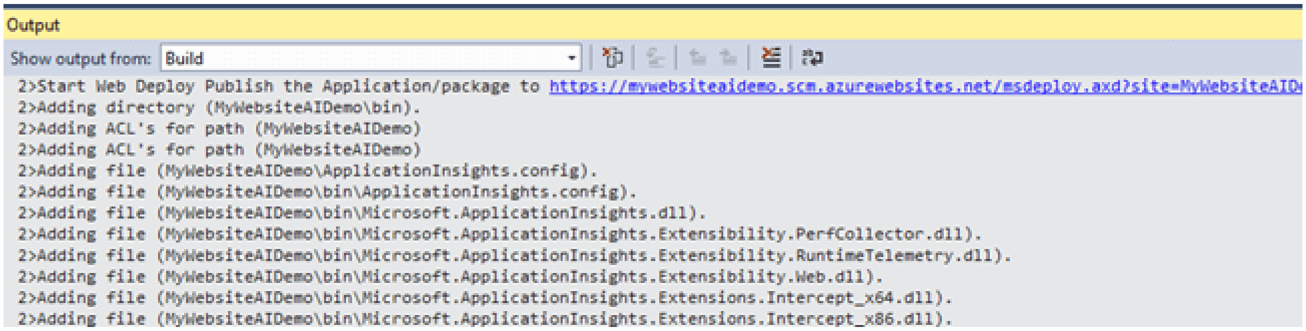
User name: $MyWebsiteAIDemo

Password: ••

☑ Save password

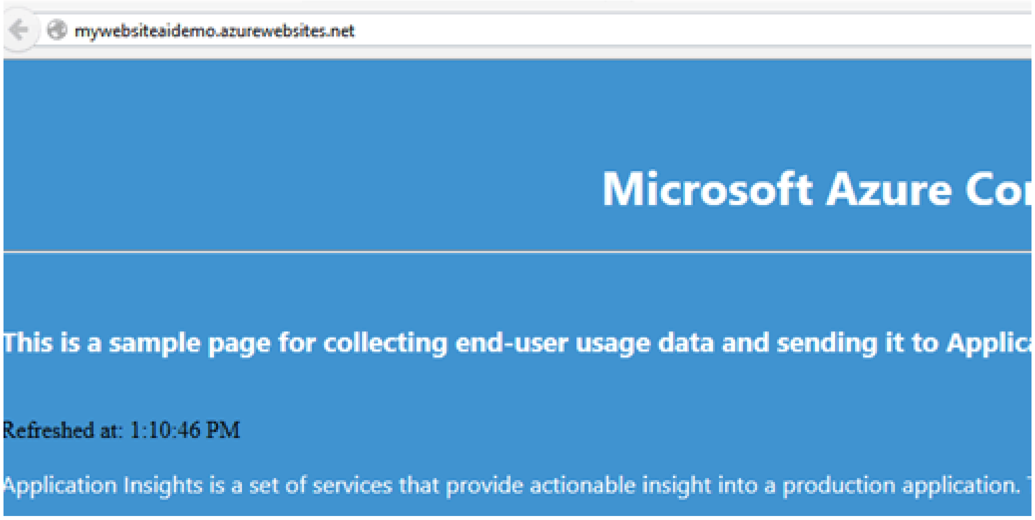
Destination URL: http://mywebsiteaidemo.azurewebsites.net

Click Next and Publish button to start publishing the site. You will observe the verbose logging at the bottom of Visual Studio in “Output” Window.



```
2>Start Web Deploy Publish the Application/package to https://mywebsiteaidemo.scm.azurewebsites.net/msdeploy.axd?site=MyWebsiteAID
2>Adding directory (MyWebsiteAIDemo\bin).
2>Adding ACL's for path (MyWebsiteAIDemo)
2>Adding ACL's for path (MyWebsiteAIDemo)
2>Adding file (MyWebsiteAIDemo\ApplicationInsights.config).
2>Adding file (MyWebsiteAIDemo\bin\ApplicationInsights.config).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.dll).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.Extensibility.PerfCollector.dll).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.Extensibility.RuntimeTelemetry.dll).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.Extensibility.Web.dll).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.Extensions.Intercept_x64.dll).
2>Adding file (MyWebsiteAIDemo\bin\Microsoft.ApplicationInsights.Extensions.Intercept_x86.dll).
```

Once the Publish is finished, Visual Studio will pop-up a new browse instance with the Website URL.



Microsoft Azure Co

This is a sample page for collecting end-user usage data and sending it to Applic

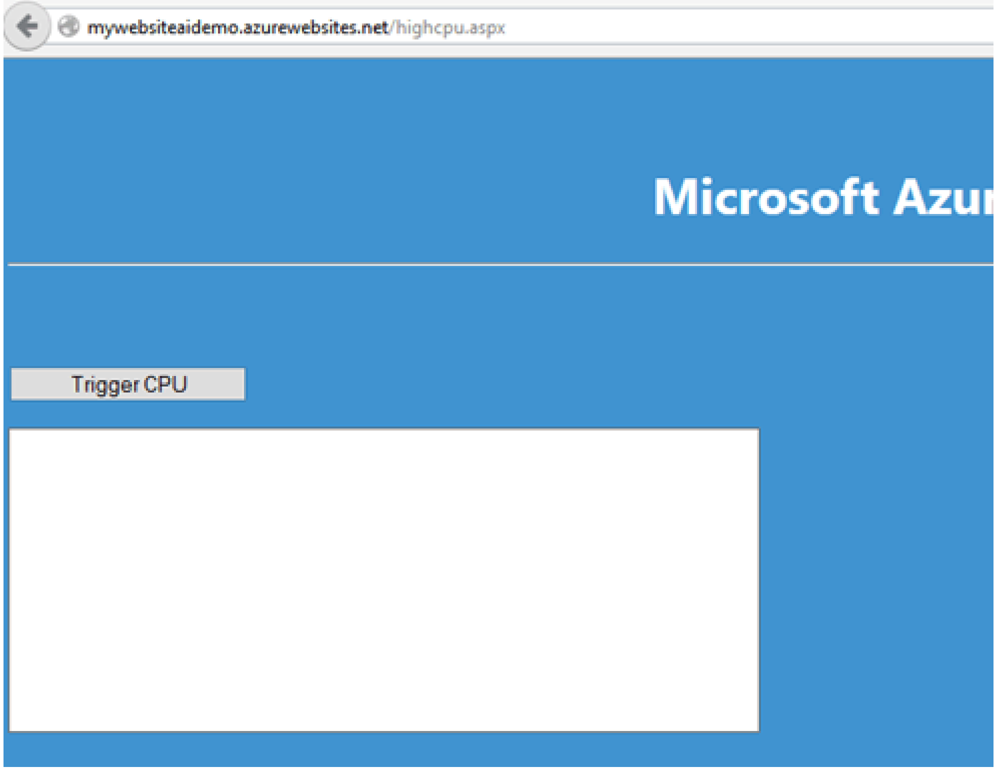
Refreshed at: 1:10:46 PM

Application Insights is a set of services that provide actionable insight into a production application.

Step 10

Now, browse the “Default.aspx” on your Website hosted on Microsoft Azure. It will keep refreshing itself after every 2 seconds.

Open another tab and browse “TriggerCPU.aspx” page on your Website hosted on Microsoft Azure. Click on “Trigger CPU” to log some Server telemetry data on “Application Insights”.



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