# Lab 2: Migrating an ASP.NET web application to Azure Web Apps

## What you will learn

In this lab, you will publish your legacy ASP.NET application to an Azure Web App, out of Visual Studio 2017.

- Server admin login: labadmin
- Password: L@BadminPa55w.rd

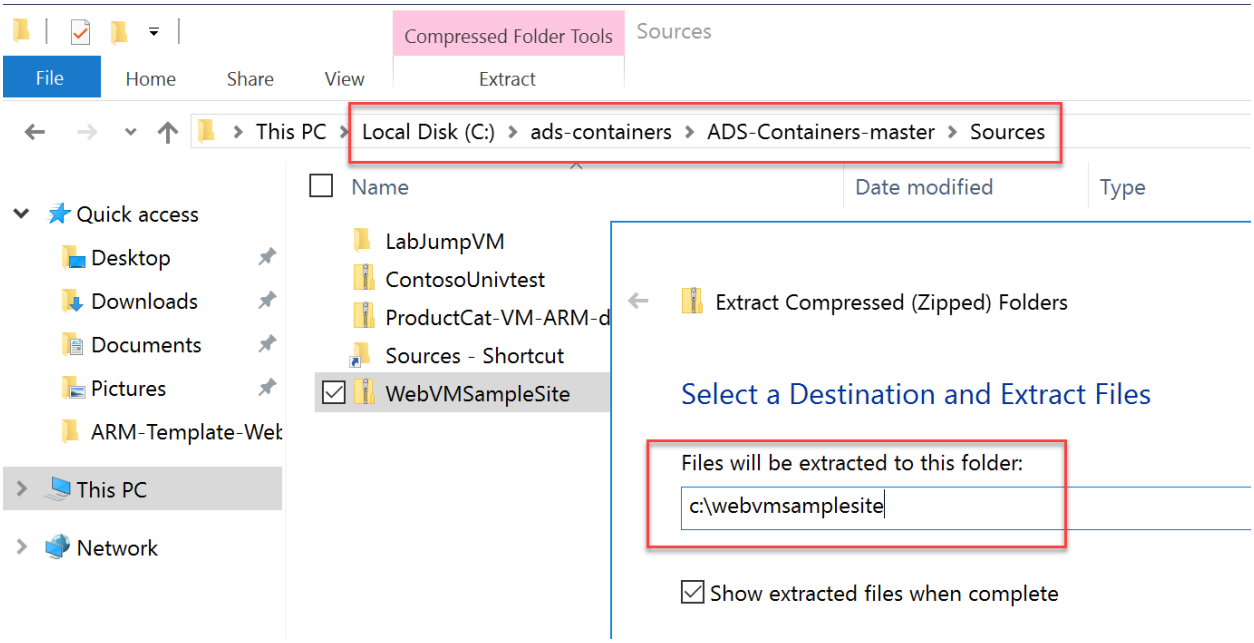
## Time Estimate

This lab shouldn't take longer than 15 minutes.

## Task 1: Publish an ASP.NET project to Azure Web Apps from within Visual Studio 2017

1. Log on to the lab-JumpVM Virtual Machine (fyi, credentials labadmin / L@BadminPa55w.rd).

2. From the lab-jumpVM, browse to the folder that holds the GitHub downloaded source files. In here, find the WebVMSampleSite.zip file. This is the source code of the legacy ASP.NET web application. Extract this file to a folder on the local jumpVM, e.g. c:\webvmsamplesite




3. Once extracted, open the file web.config in the extracted folder.

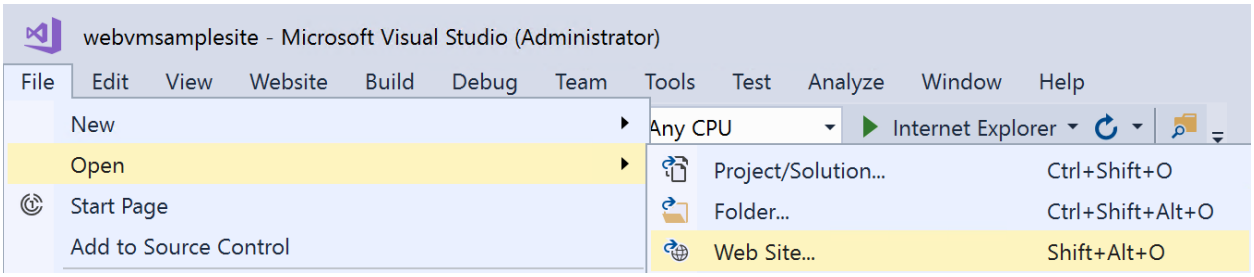
4. In here, edit the **<connectionStrings>** settings again, **Replacing the** following settings with the parameters from the Connection String information in the Azure Portal, in both lines starting with <add name:
   **- Data Source=10.0.1.4 => change** the 10.0.1.4 with your SQL Server name e.g. adssqlazure0923.database.windows.net in our example
   - **Uid=sa => change** the sa account to labadmin

```
<connectionStrings>
<add name="DefaultConnection" connectionString="Data Source=adssqlazure0923.database.windows.net;
initial catalog=AdventureWorks;Uid=labadmin;Password=L@BadminPa55w.rd;MultipleActiveResultSets=True"
providerName="System.Data.SqlClient" />
<add name="AdventureWorksEntities" connectionString="metadata=res://*/Models.AdventureWorks.csdl
|res://*/Models.AdventureWorks.ssdl |res://*/Models.AdventureWorks.msl;provider=System.Data.SqlClient;
provider connection string=&quot;data source=adssqlazure0923.database.windows.net;initial
catalog=AdventureWorks;Uid=labadmin;Password=L@BadminPa55w.rd;multipleactiveresultsets=True;App=Entity
Framework&quot;" providerName="System.Data.EntityClient" />
  </connectionStrings>
```

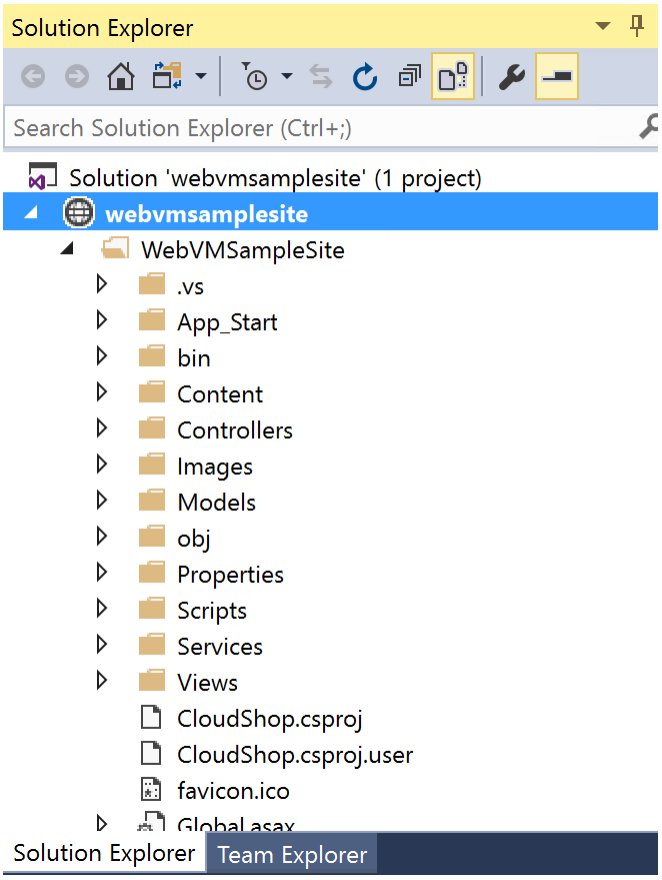
5. **Save** the changes to the web.config file.

6. Once this step is done, launch Visual **Studio 2017.**

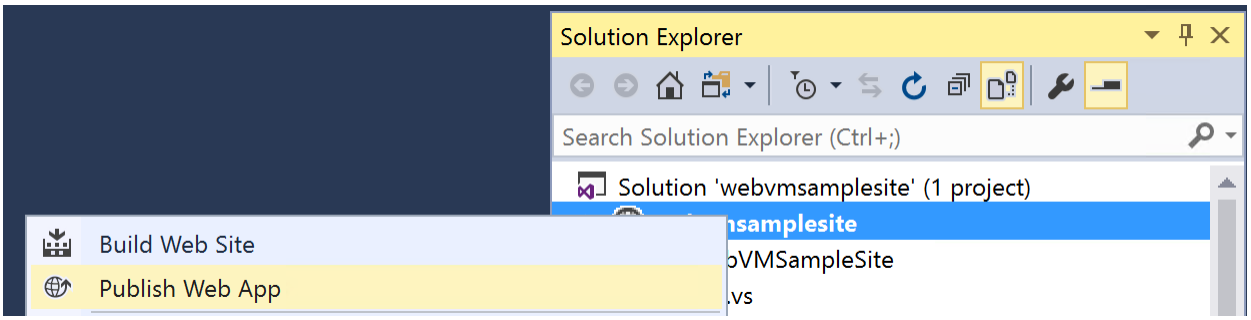
7. From the **Visual Studio menu**, **click File / Open / Web Site...** and browse to the location where you extracted the webvmsamplesite



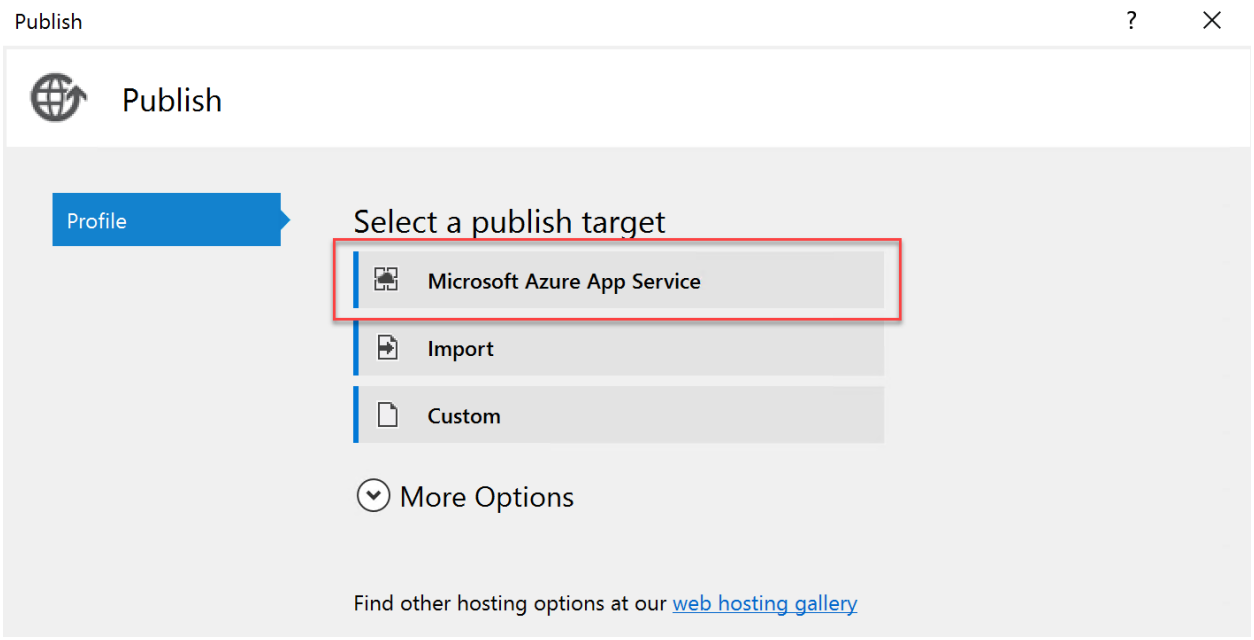

8. The Visual Studio **Solution Explorer** should show you the contents of the folder



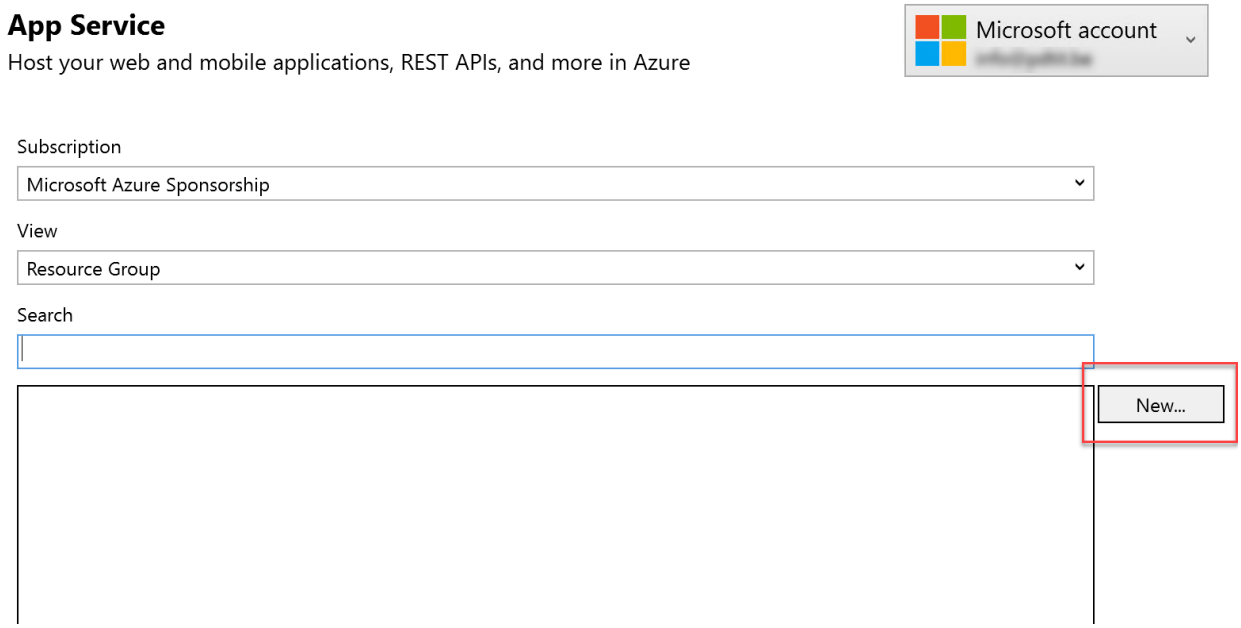

9. Now, **right-click on the web site** again, and this time choose **Publish web app**



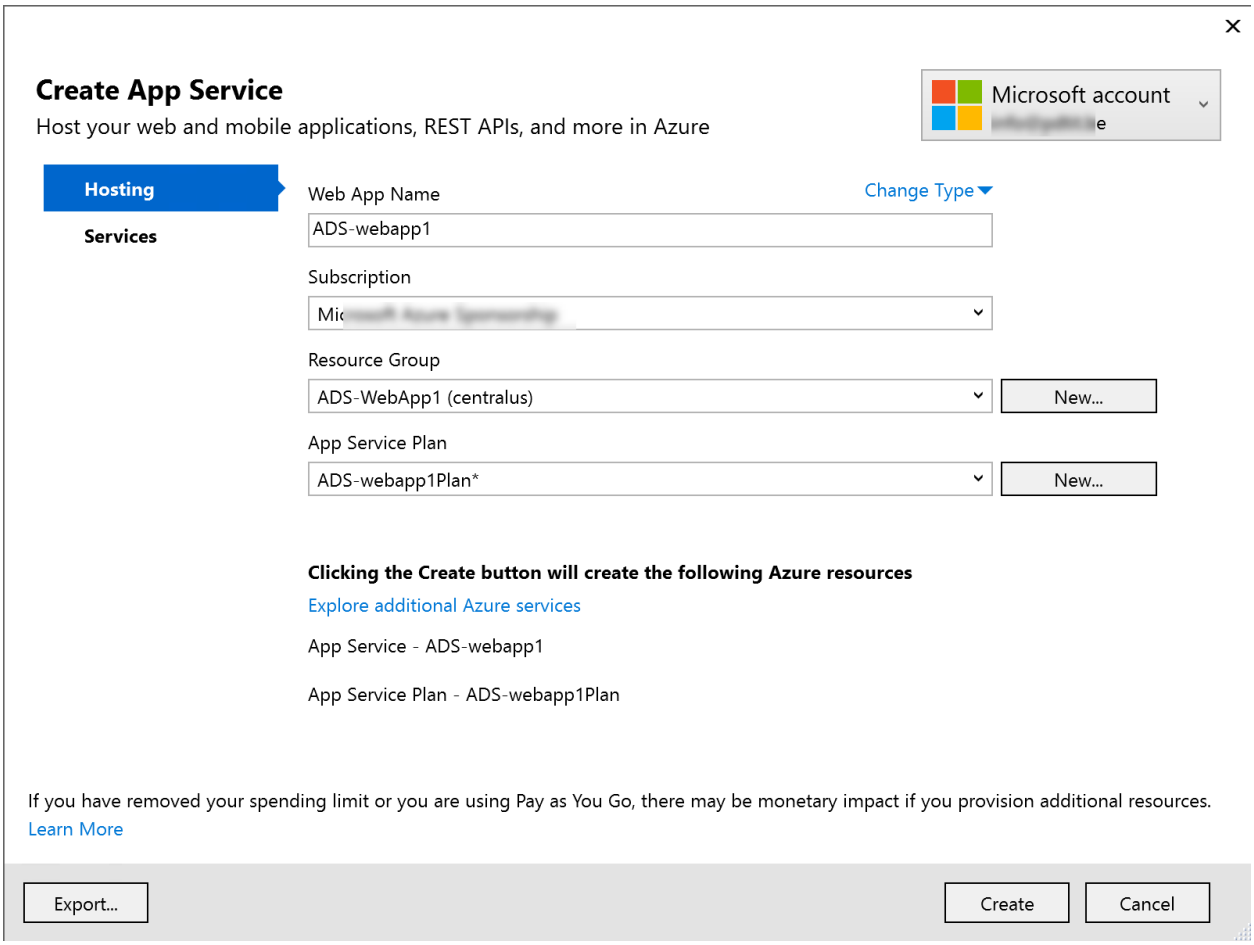

10. This launches the Publish wizard. In the **Select a publish target**, choose **Microsoft Azure App Service**.



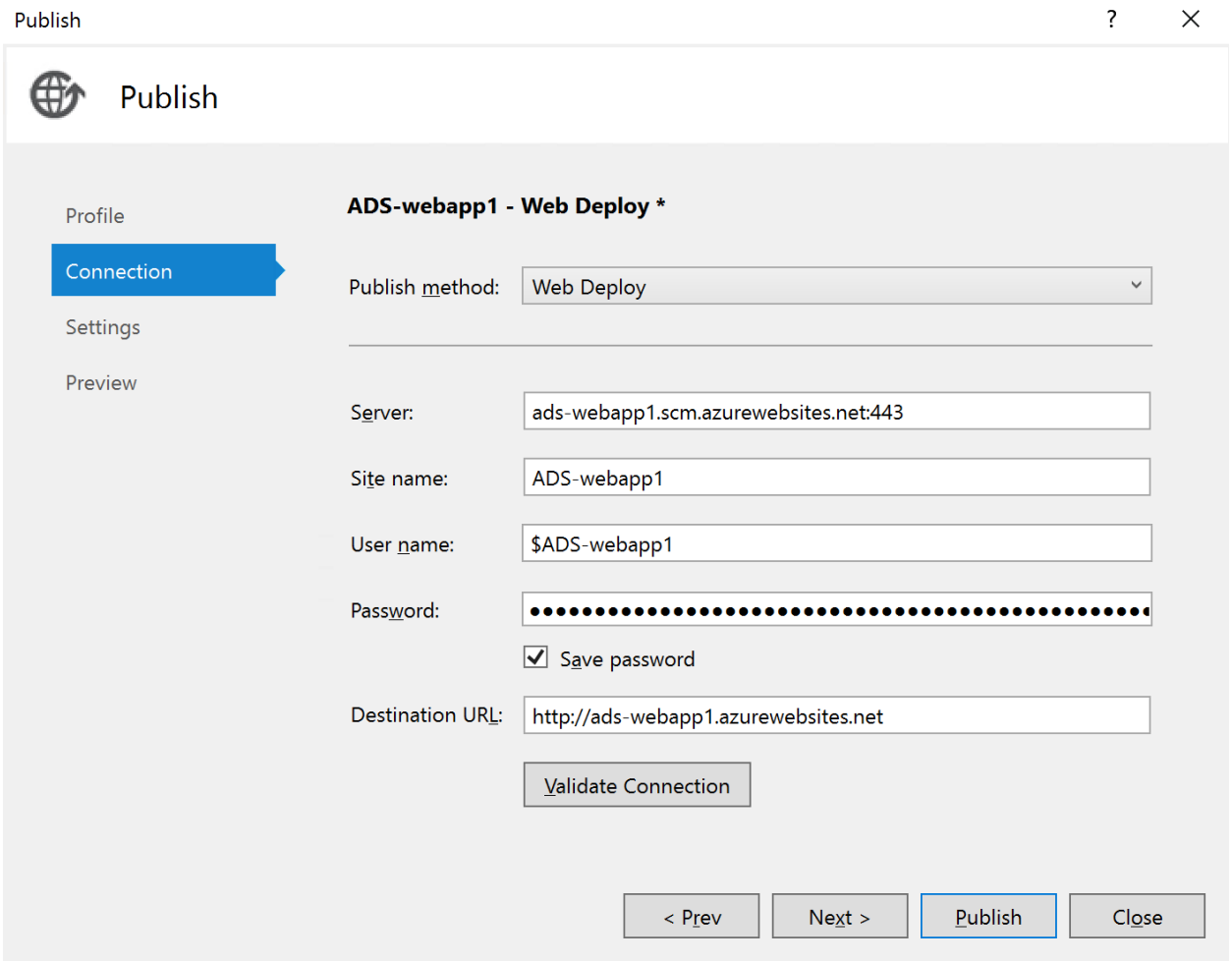

11. In the App Service step, validate your Azure credentials and subscription are the correct ones, and click the New button.




12. In the Create App Service step, define
- the WebApp Name: "SUFFIX-webapp1"
- a New Resource Group "SUFFIX-webapp1",
- a New App Service Plan "SUFFIX-webapp1ServicePlan"

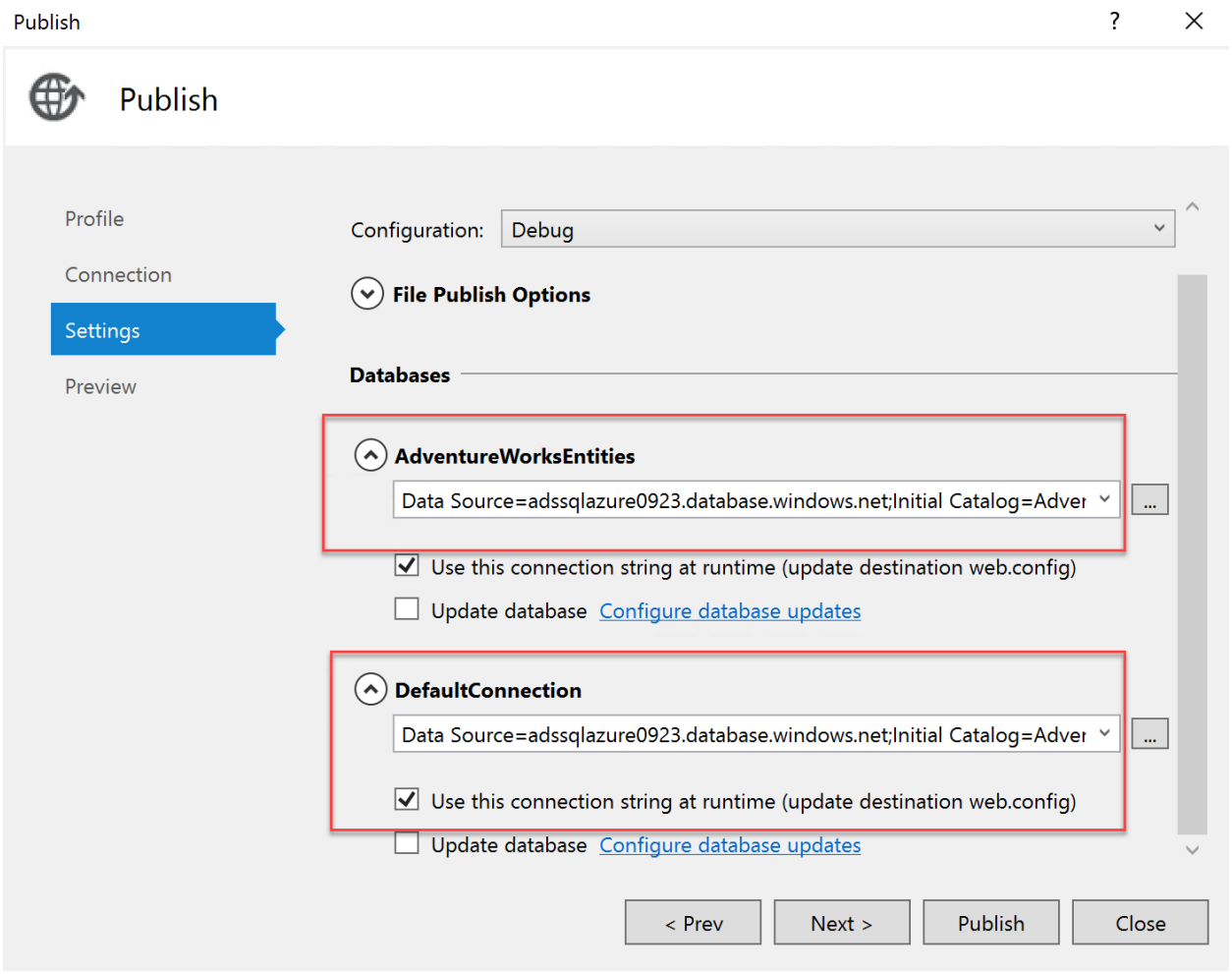



13. Click the Create button to kick off the actual Web App resource creation. This creates the different Azure Resource objects (Resource Group and App Service Plan) in the back-end. After which you get redirected back to the Publish wizard.




14. Click Next to continue to the next step in the Publish wizard.

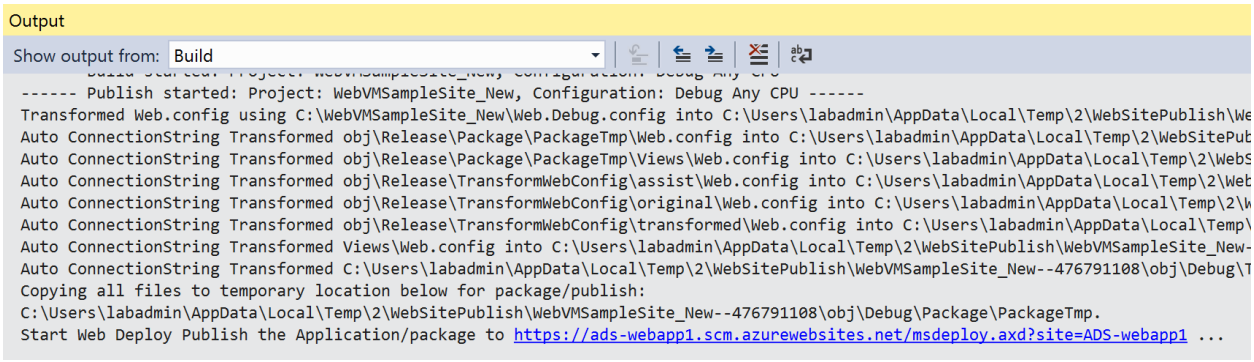
15. Out of the integrated Web App Publishing Wizard, the website specific settings from the web.config file are being analyzed, more specific the database connection strings.



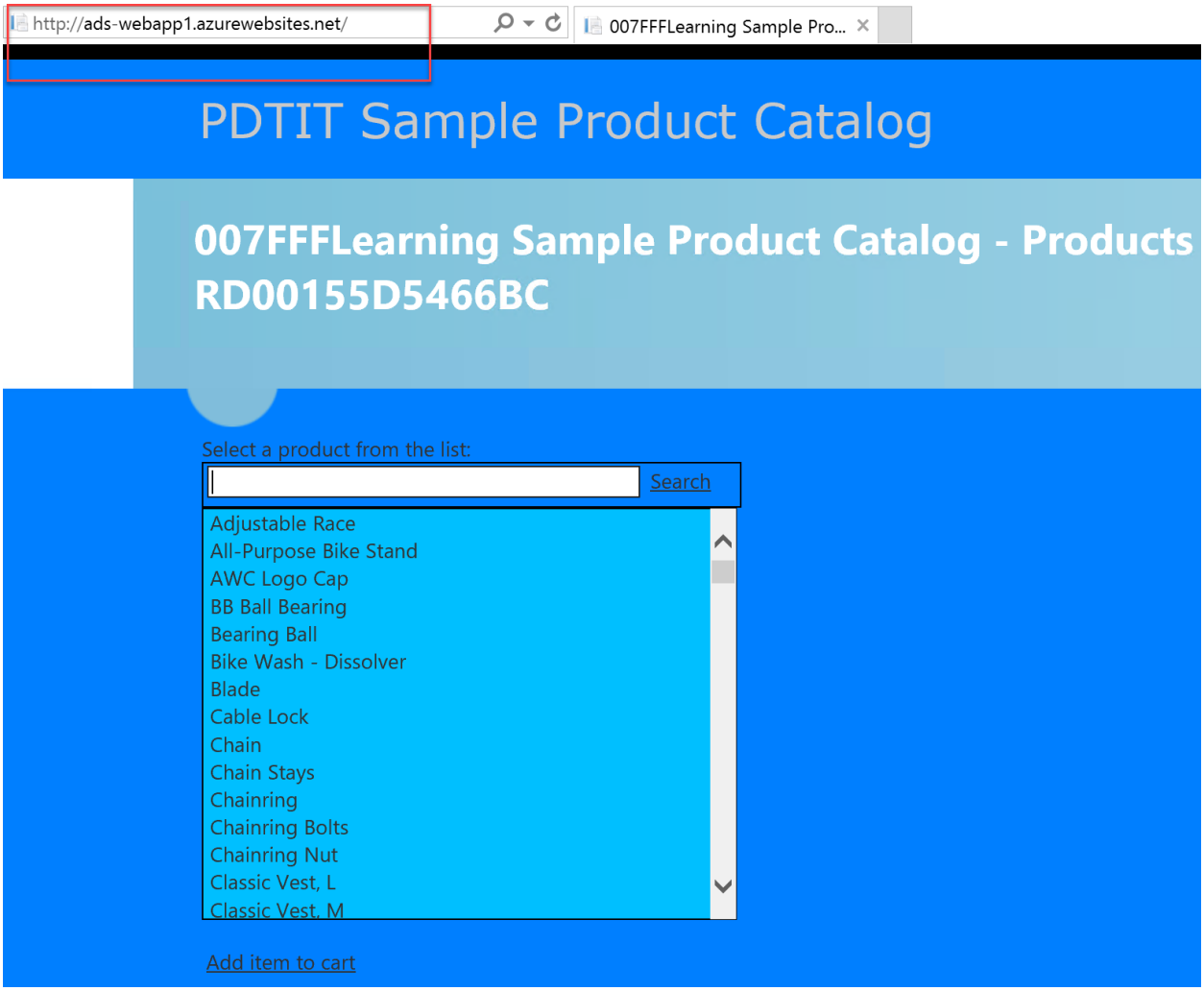

16. Accept the presented information. (Note this gives interesting options towards developers to test the web app with test/dev databases, right from within this web app publishing wizard).

17. Click Publish to finalize this publish wizard step, and wait for the Web App publish steps to be completed successfully.

18. From the Visual Studio Output window, you can follow the publishing sequence in a log file.



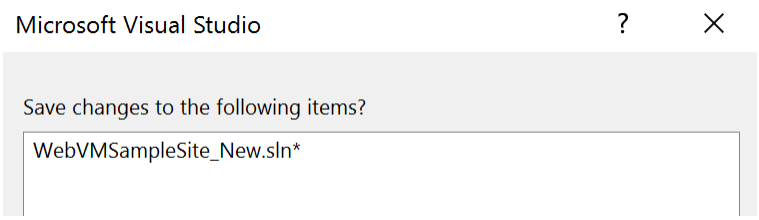

19. Once the publish step is complete, Visual Studio will open your internet browser and connect to the URL of the new Azure Web App.



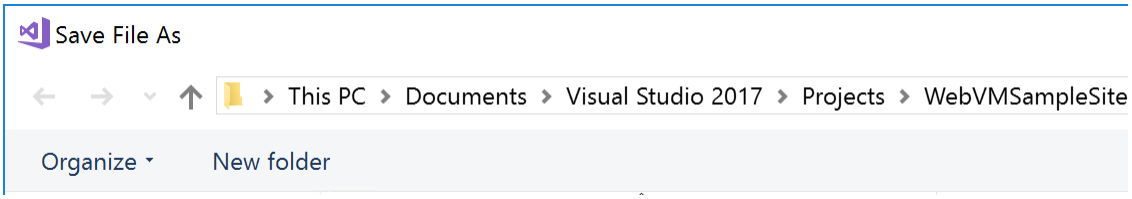

20. This confirms our Azure Web is published successfully, communicating with the SQL Azure database.

21. Close your internet browser.

22. Go back to **Visual Studio 2017**, and **close** the application. This will **prompt you to save** the Visual Studio application (.sln).




23. **Click Yes**, and accept the default location that is offered.




24. This closes Visual Studio 2017.

This completes this lab.

## Summary

In this lab exercise, you learned how to update connection string settings in a web.config file, and how to publish your website code to an Azure Web App, by using the Visual Studio Web App Publishing wizard. Lastly, you saved your web site content as a new Visual Studio Project.