

# Publish an ASP.NET Core app to Azure with Visual Studio - Guide 1

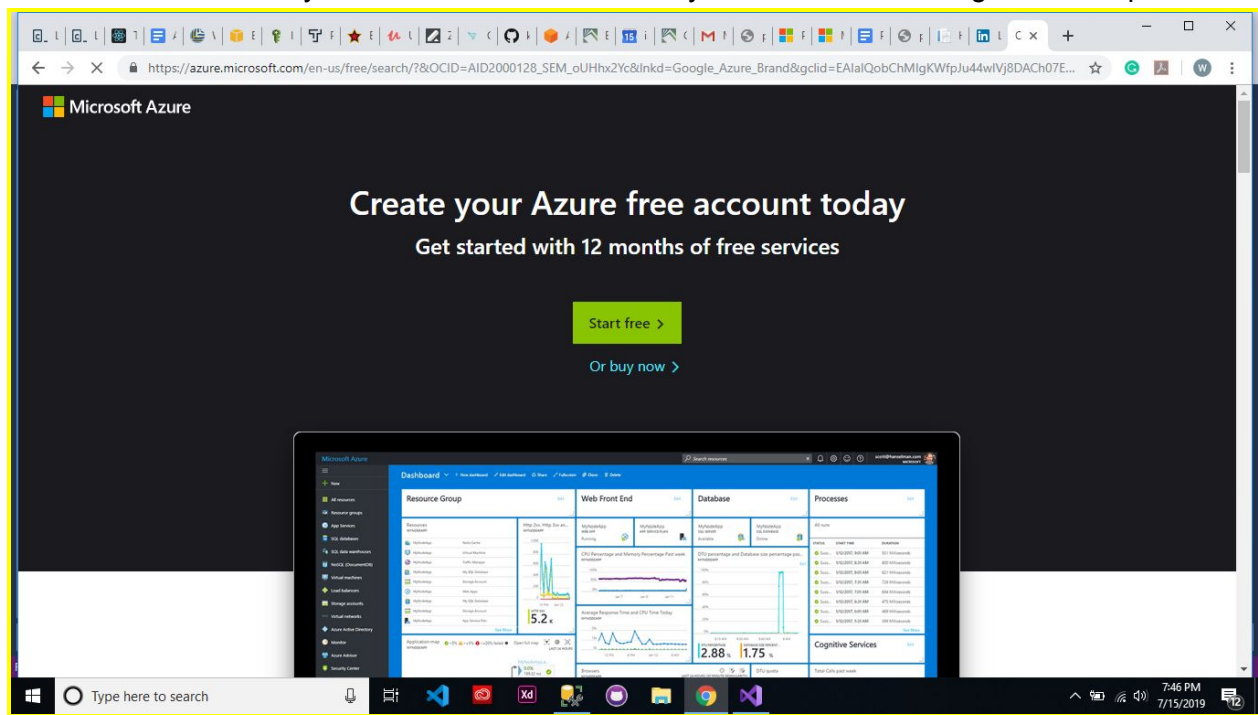
## CREATE A NEW MICROSOFT AZURE ACCOUNT...

[https://azure.microsoft.com/en-us/free/search/?&OCID=AID2000128\\_SEM\\_oUHx2Yc&Inkd=Google\\_Azure\\_Brand&gclid=EALaIQobChMImYXtnZy44wIVStbACh1MmAGaEAAAYASAAEgICjvD\\_BwE](https://azure.microsoft.com/en-us/free/search/?&OCID=AID2000128_SEM_oUHx2Yc&Inkd=Google_Azure_Brand&gclid=EALaIQobChMImYXtnZy44wIVStbACh1MmAGaEAAAYASAAEgICjvD_BwE)

## CLICKSTART FREE>

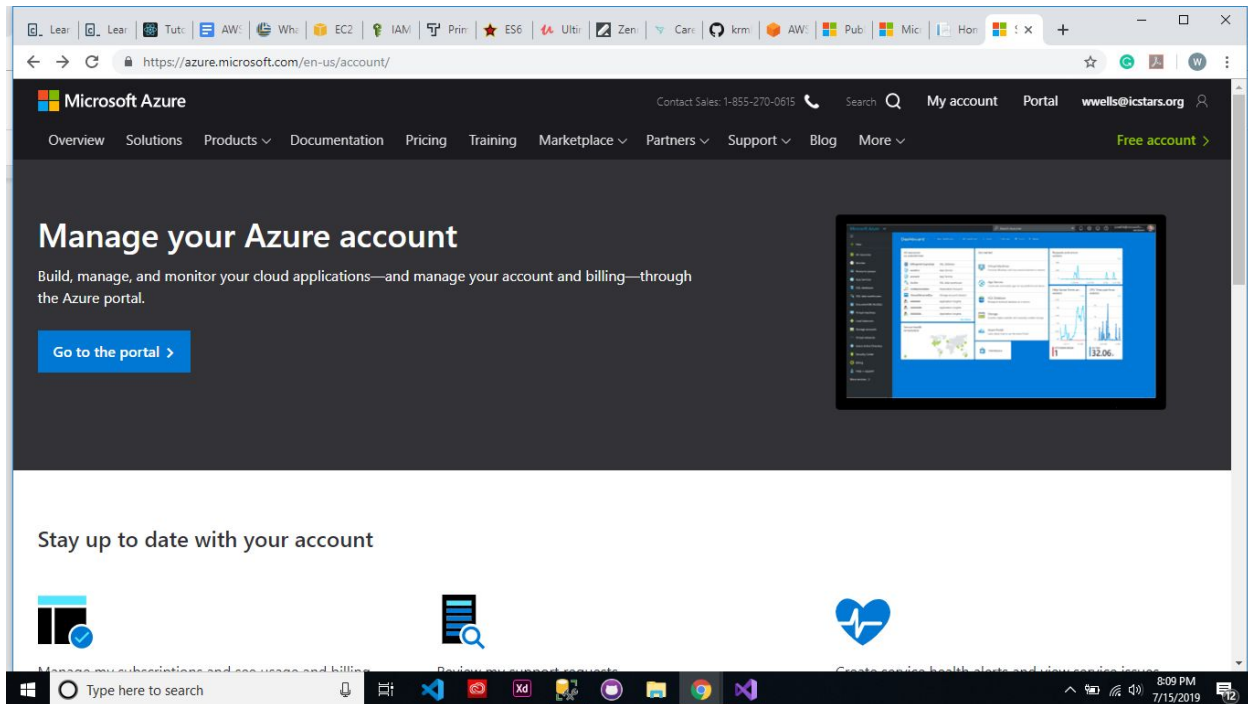
### \*NOTE

- You will need to sign up on the FREE Tier
- Credit Card required during sign up
- Notate date of Sign up, 12 months FREE only
- Notate your Account Credentials, they will be needed during further steps



The screenshot shows the Microsoft Azure account creation page. The browser address bar displays <https://azure.microsoft.com/en-us/account/>. The navigation bar includes links for Overview, Solutions, Products, Documentation, Pricing, Training, Marketplace, Partners, Support, Blog, and More. A search icon and a 'Portal' link are also present. The main content area features a dark blue background with the heading 'Ready when you are' and the subtext 'Let's set up your free account'. A green 'Start free' button is prominently displayed. To the right, a list of benefits is shown: '12 months of free services', '25+ always-free services', and '\$200 credit toward use of any Azure service'. Below this, there are four columns of links: 'Go Social' (Facebook, Twitter, YouTube, LinkedIn, RSS), 'Microsoft Azure' (Solutions, Products, Regions, Case Studies, Pricing, Member Offers, Calculator, Documentation, Downloads, Samples, Marketplace), 'Community' (Blog, Azure Updates, Tech Community, Events, Careers, Education, Students, Startups), and 'Account' (Microsoft Azure portal, Preview Features, Privacy data management). A 'Trusted' section lists Security, Privacy, and Compliance. The Windows taskbar at the bottom shows the search bar and various application icons, with the system clock indicating 8:10 PM on 7/15/2019.

The screenshot shows the Microsoft Azure 'You're ready to start with Azure' page. The browser address bar displays <https://azure.microsoft.com/en-us/get-started/welcome-to-azure/?subscriptionId=ce6e52b6-874c-489f-ab9e-32bfc49e5986>. The navigation bar is similar to the previous page but includes a 'Contact Sales: 1-855-270-0615' link. The main content area has a light gray background with the heading 'You're ready to start with Azure'. A blue 'Go to the portal' button is located below the heading. Further down, a section titled 'Join the demo to see Azure in action' provides information about a live Q&A session. A list of topics covered in the demo includes: 'Building a virtual machine.', 'Creating a web app.', 'Deploying a SQL database.', and 'Customizing your DevOps dashboard.' To the right, a gray box titled 'Register to schedule a live demo or watch on demand' contains a 'Select a time or watch on demand' section. This section lists two options: '7/18/2019, 11:00 AM CDT (Change time zone)' and '7/25/2019, 11:00 AM CDT'. A 'Watch on demand' link is also visible. A blue 'Chat with Sales' button is located in the bottom right corner. The Windows taskbar at the bottom shows the search bar and various application icons, with the system clock indicating 1:50 PM on 7/15/2019.



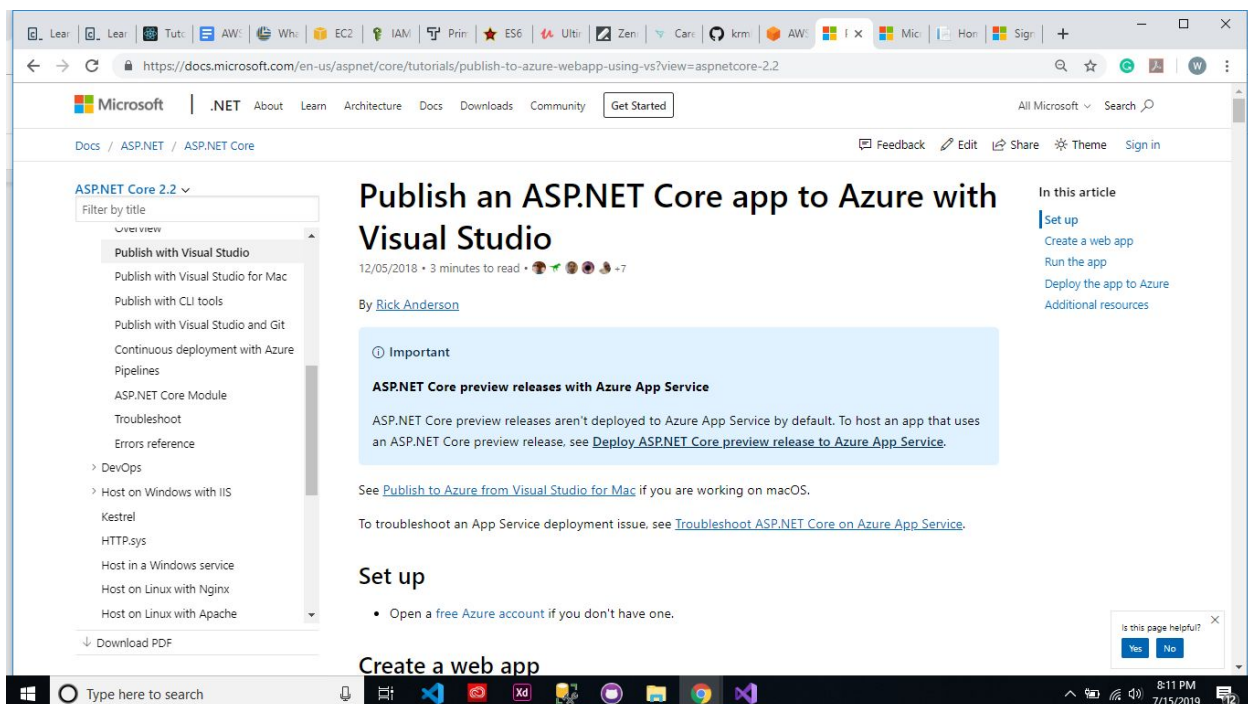
Click Go to the Portal button

\*NOTE

-Keep the Azure Dashboard(Portal) open, you will need this during further steps

**MICROSOFT AZURE Account Set up successfully! Proceed on to use the Doc**

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/publish-to-azure-webapp-using-vs?view=aspnetcore-2.2>



STOP -Once you reach this point

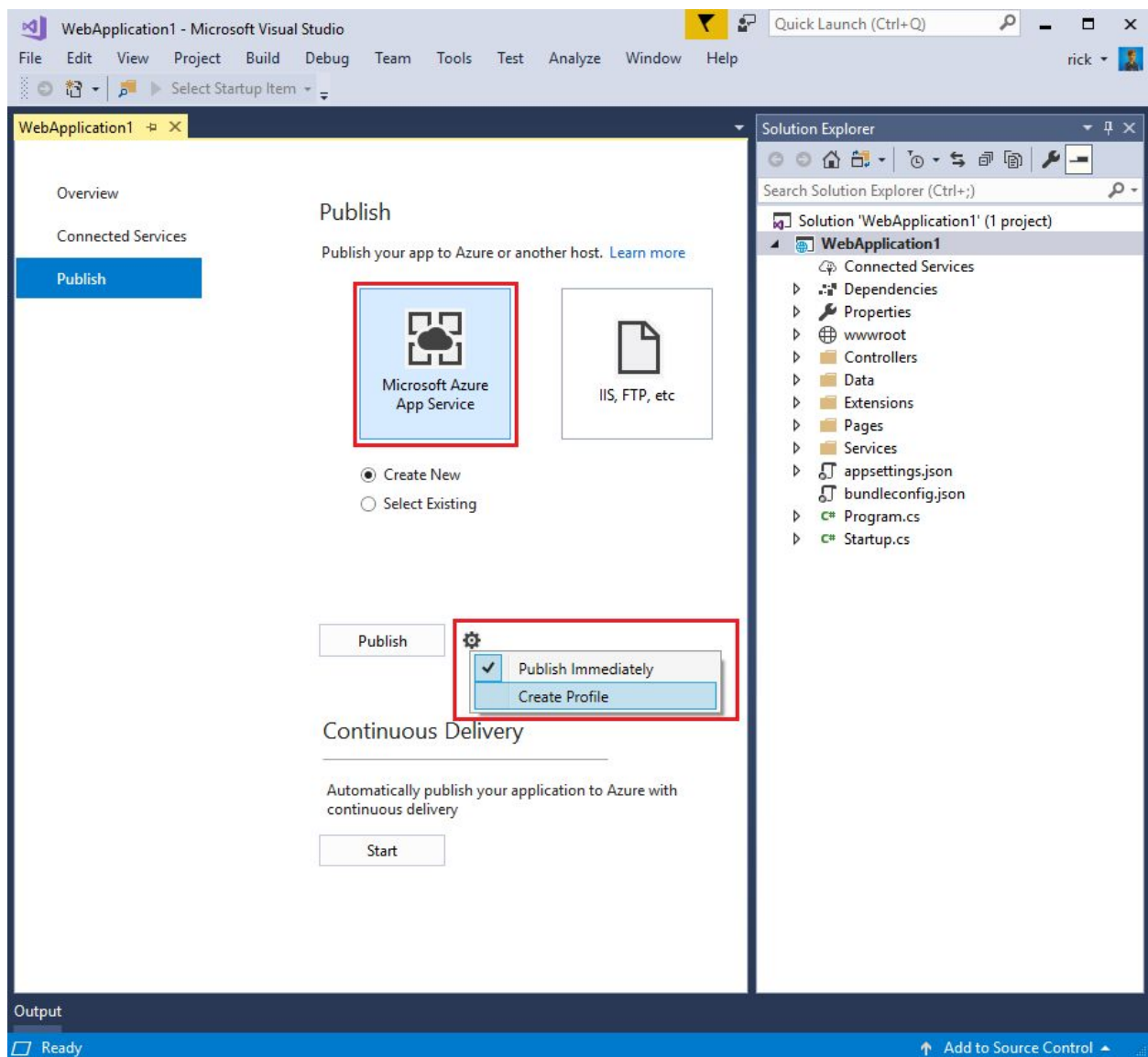
\*NOTE

-Your screens may look different then the doc

-On your screen, near the Create button, select the drop down arrow to select Create Profile

In the Publish dialog:

- Select Microsoft Azure App Service.
- Select the gear icon and then select Create Profile.
- Select Create Profile.



## Create Azure resources

The Create App Service dialog appears:

- Enter your subscription.
- The App Name, Resource Group, and App Service Plan entry fields are populated. You can keep these names or change them.

**Create App Service**  
Host your web and mobile applications, REST APIs, and more in Azure

Microsoft account  
a.ricka00@gmail.com

**Hosting** ⓘ  
**Services**

App Name Change Type ▼  
WebApplication120171215025005

Subscription  
MSDN ▼

Resource Group  
WebApplication120171215025005ResourceGroup\* New... ⓘ

App Service Plan  
WebApplication120171215025005Plan\* New...

**Clicking the Create button will create the following Azure resources**  
[Explore additional Azure services](#)  
App Service - WebApplication120171215025005  
App Service Plan - WebApplication120171215025005Plan

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.  
[Learn More](#)

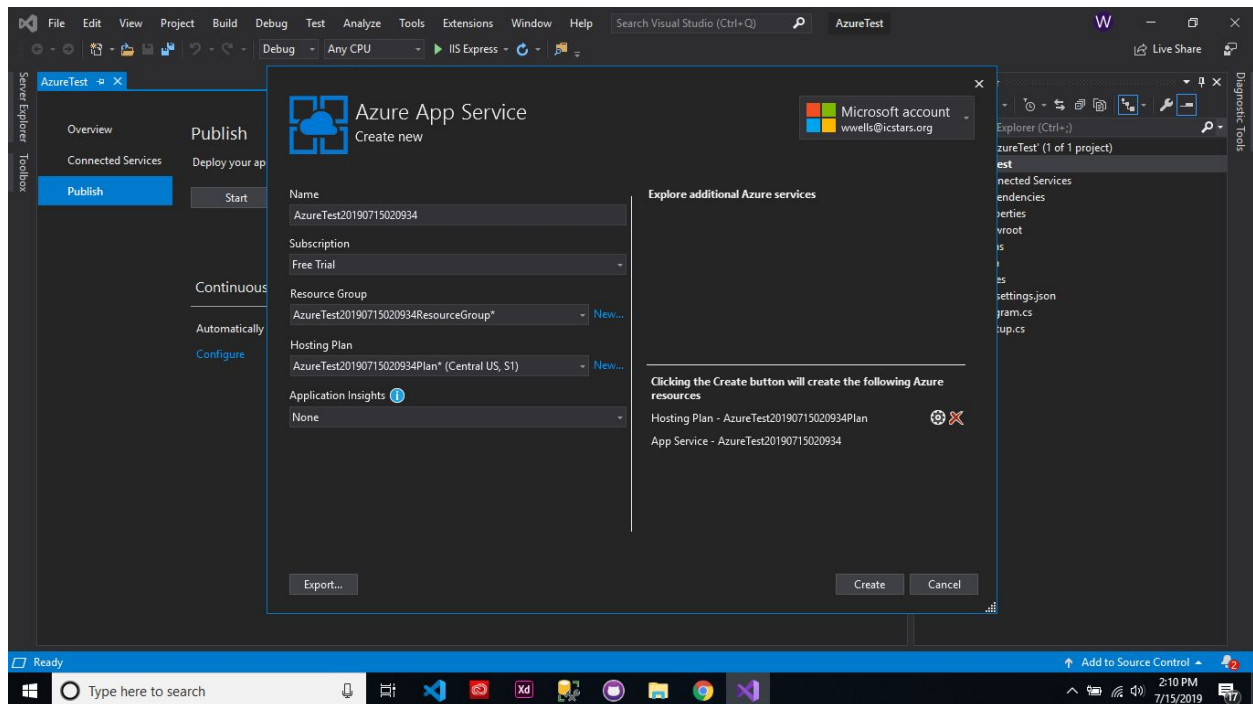
Export... Create Cancel

### My screen Example

As the profile is created, you see the fields are prepopulated

\*NOTE

- Name -The name you used when creating the Project application in VS19
- Subscription - Free Trial
- Resource Group - Server/Database information



STOP -Once you reach this point

\*NOTE

-Your screens may look different then the doc .. **Use my screen Example below**

- Select the Services tab to create a new database.
- Select the green + icon to create a new SQL Database

**Create App Service**  
Host your web and mobile applications, REST APIs, and more in Azure

Microsoft account  
a.ricka00@gmail.com

Hosting ⓘ  
**Services**

Select any additional Azure resources your app will need Show: Recommended ▾

**Resource Type**

	<b>SQL Database</b> Scalable and managed database service for modern business-class apps	
--	---	--

Resources you've selected and configured

**Resource Type**

	<b>WebApplication120171215025005Plan</b> App Service Plan	
--	--	--

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.  
[Learn More](#)

Export... Create Cancel



### My screen Example

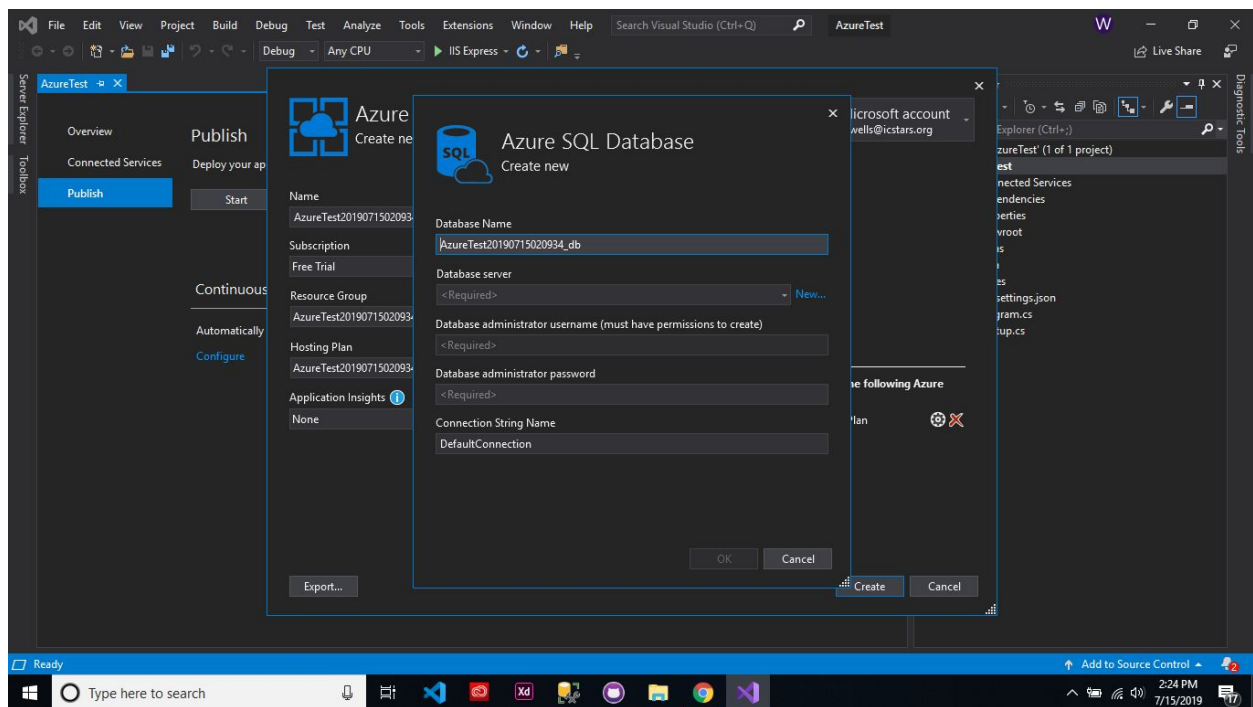
Right pane, under Explore additional Azure Services, select:

Create an SQL Database

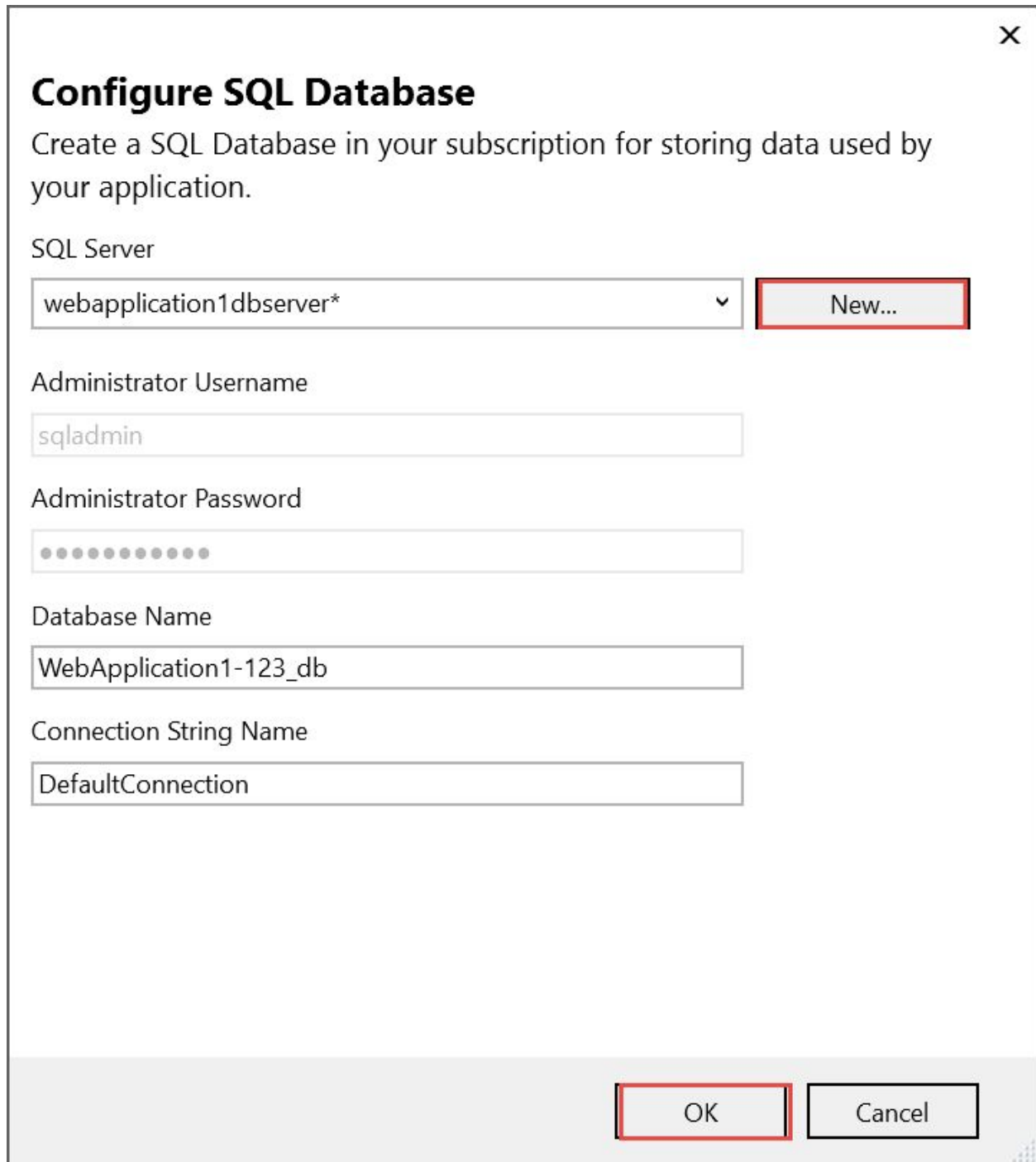
Azure SQL Database prompt displays

\*NOTE        -You will be creating the Admin Credentials here  
              -Notate Username/Password

- Select New... on the Configure SQL Database dialog to create a new database.







The image shows a 'Configure SQL Database' dialog box. It has a title bar with a close button (X) in the top right corner. The main title is 'Configure SQL Database' in bold. Below the title is a descriptive text: 'Create a SQL Database in your subscription for storing data used by your application.' The dialog contains several input fields and buttons. The 'SQL Server' field is a dropdown menu showing 'webapplication1dbserver\*' with a 'New...' button to its right. The 'Administrator Username' field contains 'sqladmin'. The 'Administrator Password' field is masked with dots. The 'Database Name' field contains 'WebApplication1-123\_db'. The 'Connection String Name' field contains 'DefaultConnection'. At the bottom right, there are 'OK' and 'Cancel' buttons. Red rectangular boxes highlight the 'New...' button, the 'OK' button, and the 'Administrator Password' field.

**Configure SQL Database**

Create a SQL Database in your subscription for storing data used by your application.

SQL Server

webapplication1dbserver\*

Administrator Username

sqladmin

Administrator Password

.....

Database Name

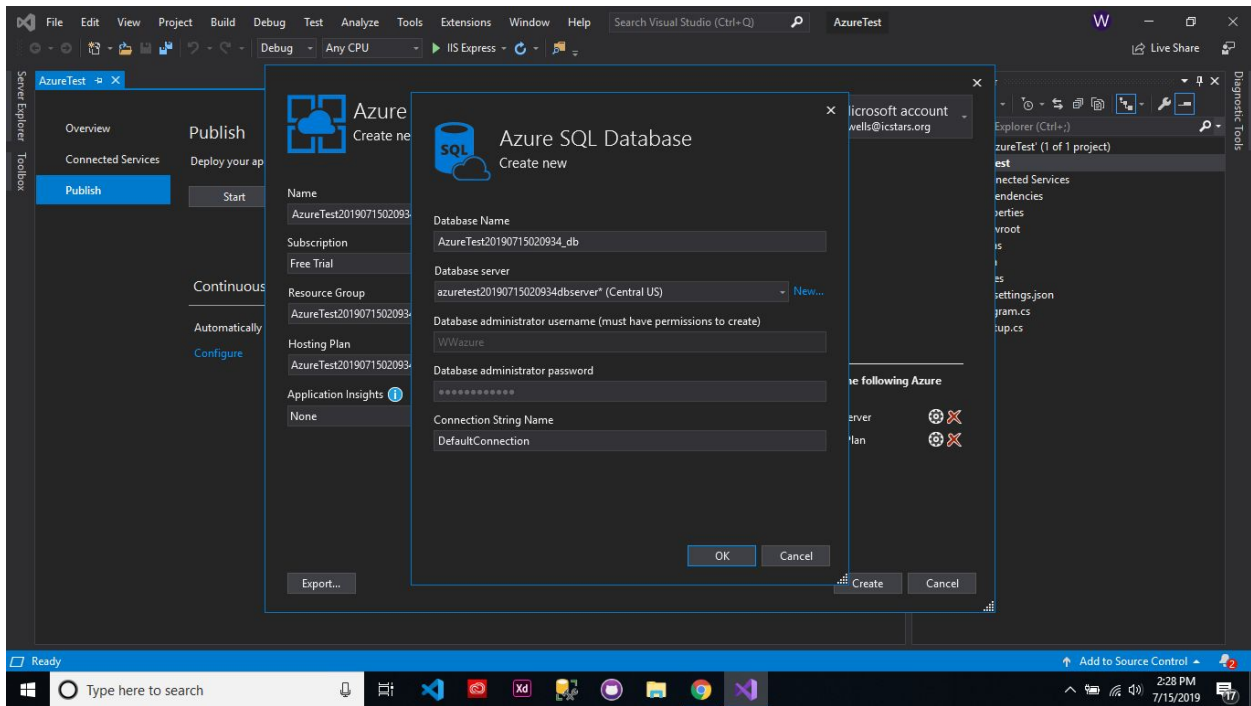
WebApplication1-123\_db

Connection String Name

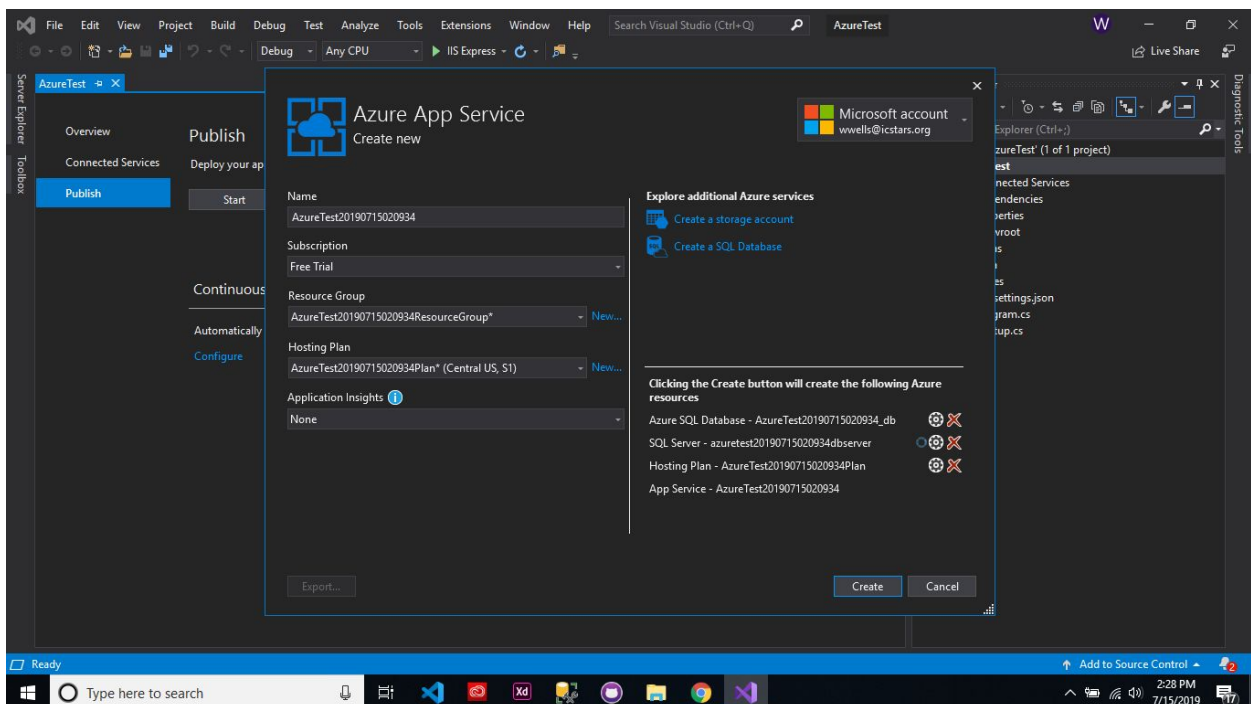
DefaultConnection

The Configure SQL Server dialog appears.

- Enter an administrator user name and password, and then select OK.



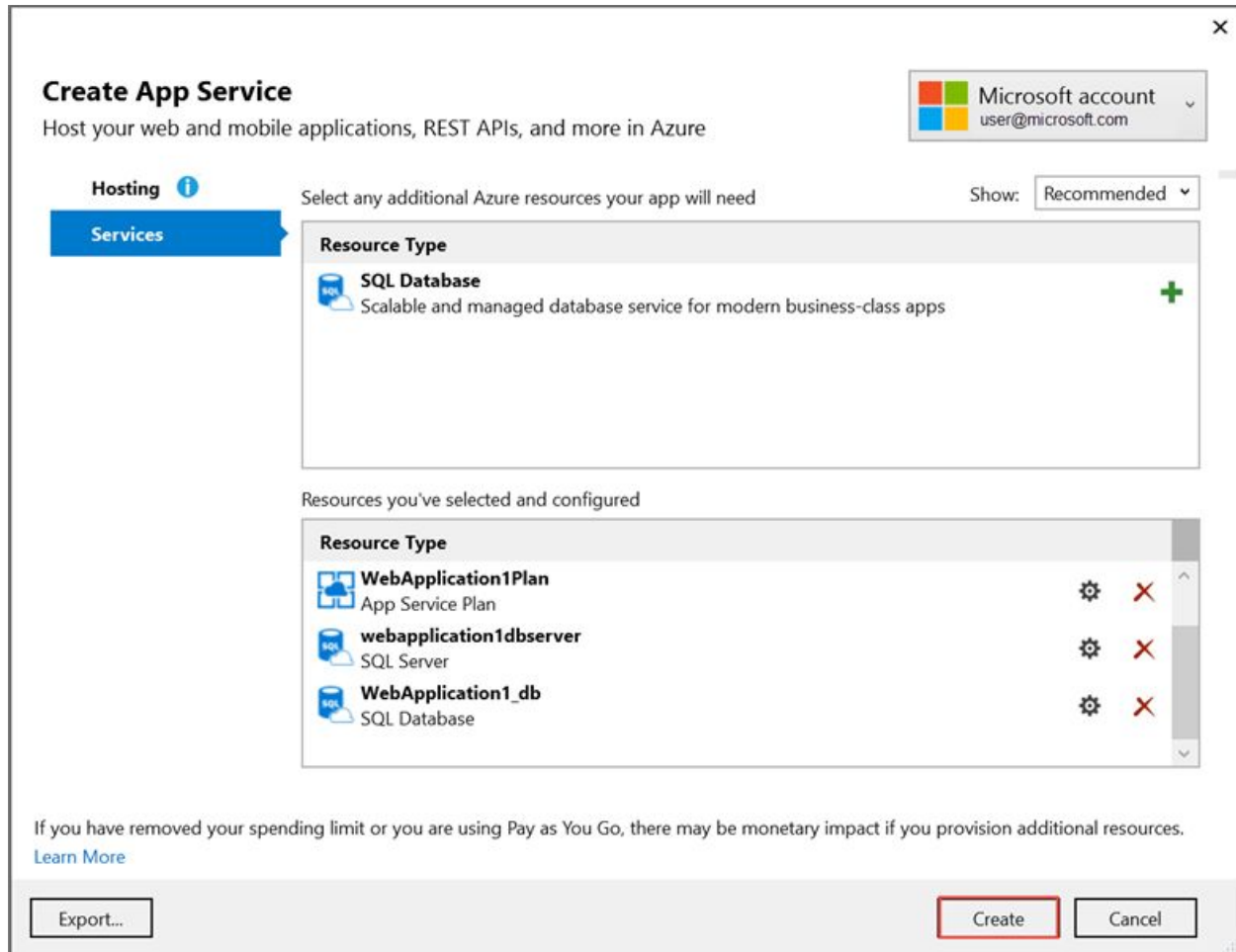
CLICK OK



CLICK CREATE

Visual Studio returns to the Create App Service dialog.

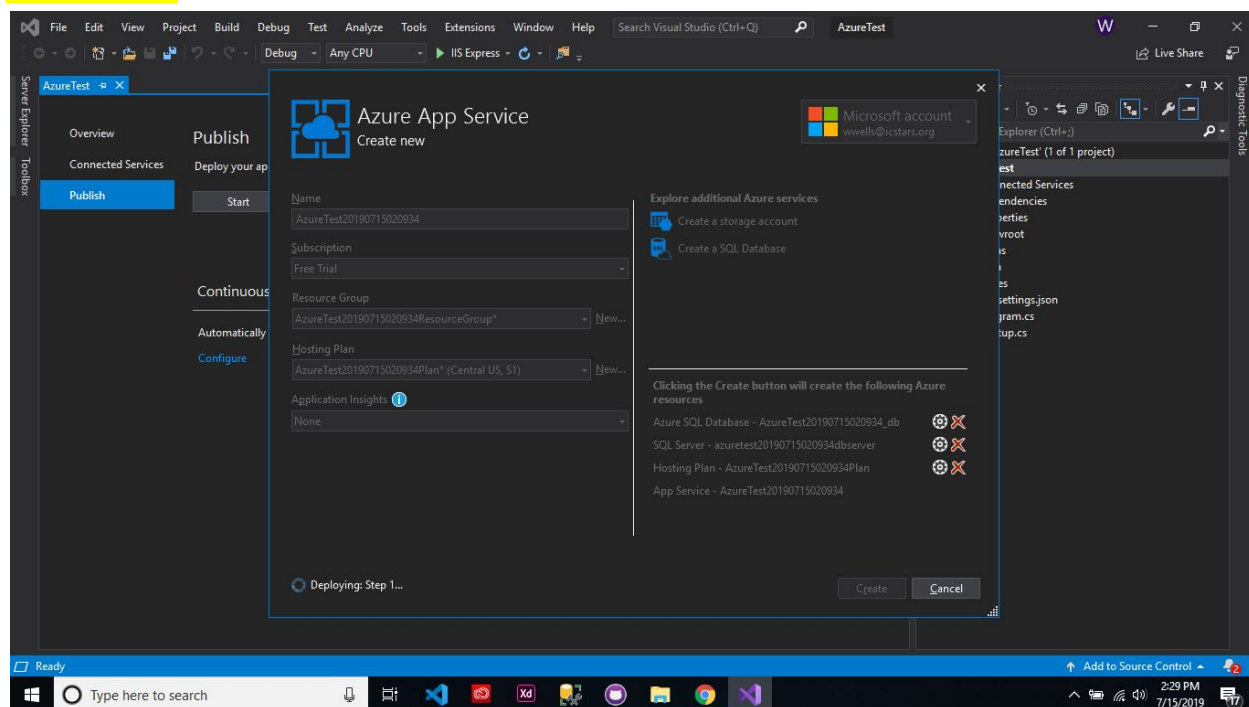
- Select Create on the Create App Service dialog.



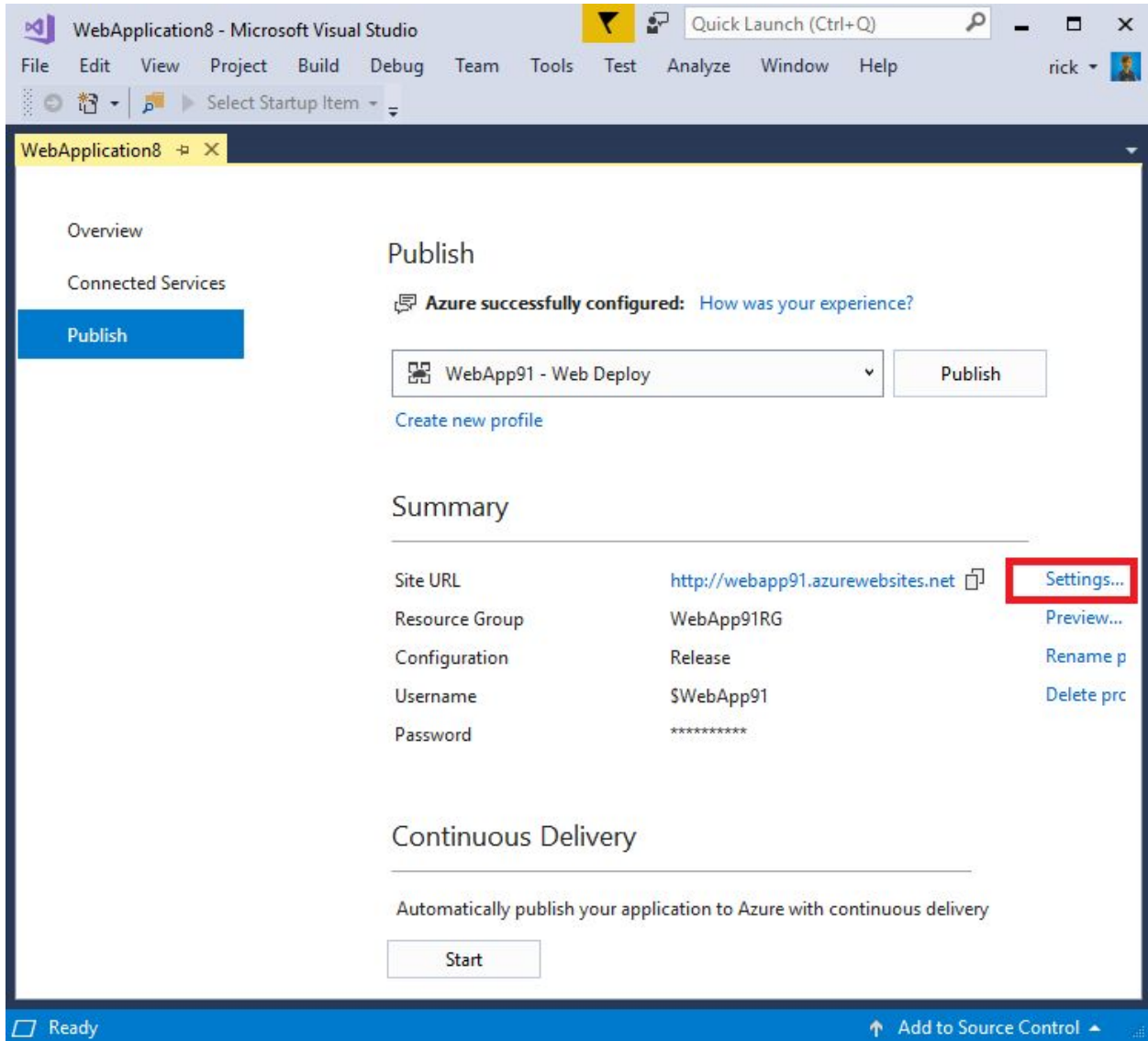
Visual Studio creates the Web app and SQL Server on Azure. This step can take a few minutes. For information on the resources created, see [Additional resources](#).

When deployment completes, select Settings:

## DEPLOYING



Visual Studio creates the Web app and SQL Server on Azure. This step can take a few minutes. For information on the resources created, see [Additional resources](#). When deployment completes, select Settings:



On the Settings page of the Publish dialog:

- Expand Databases and check Use this connection string at runtime.
- Expand Entity Framework Migrations and check Apply this migration on publish.
- Select Save. Visual Studio returns to the Publish dialog.

Publish

Publish

Connection

Settings

**WebApplication120170906075454 - Web Deploy \***

Configuration: Release

Target Framework: netcoreapp2.0

Target Runtime: Portable

File Publish Options

Databases

DefaultConnection

☒ Use this connection string at runtime

Data Source=tcp:webapplication120170906075454dbserver.database.windows.net,1433;Initial Catalo-

Entity Framework Migrations

ApplicationDbContext

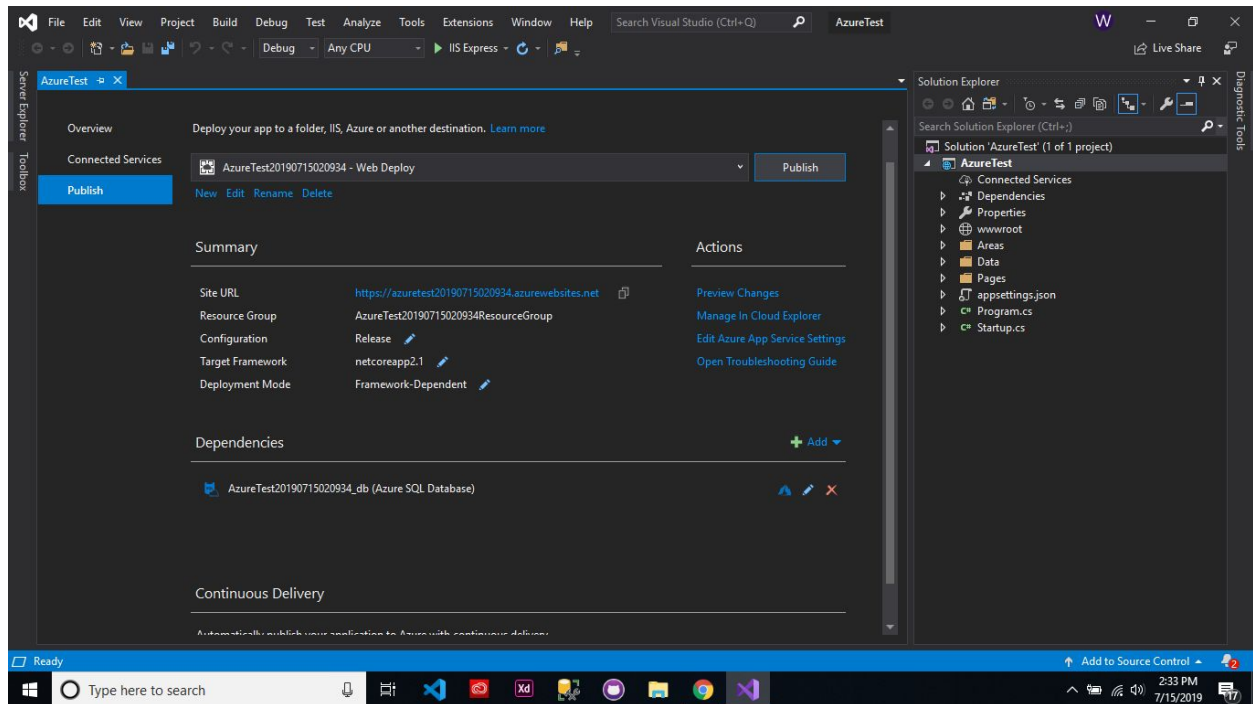
☒ Apply this migration on publish

Data Source=tcp:webapplication120170906075454dbserver.database.windows.net,1433;Initial Catalo-

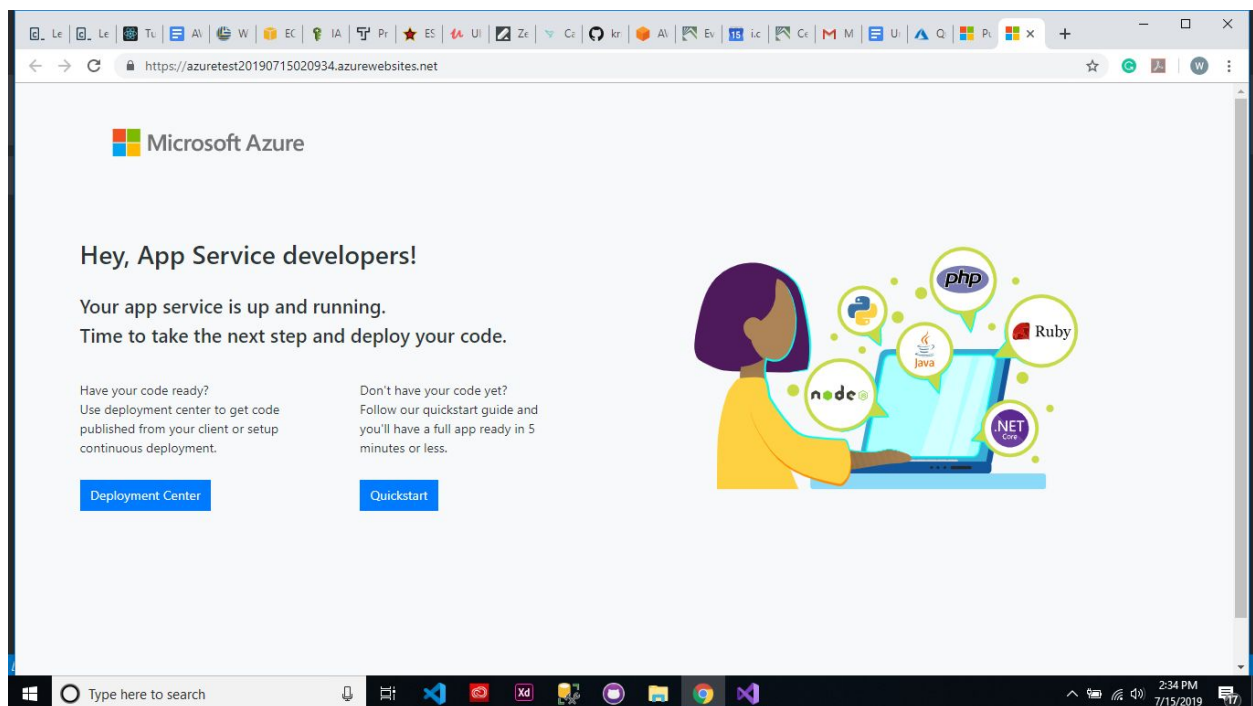
< Prev Next > Save Cancel

Click Publish. Visual Studio publishes your app to Azure. When the deployment completes, the app is opened in a browser.

## My screen Example



<https://azuretest20190715020934.azurewebsites.net/>

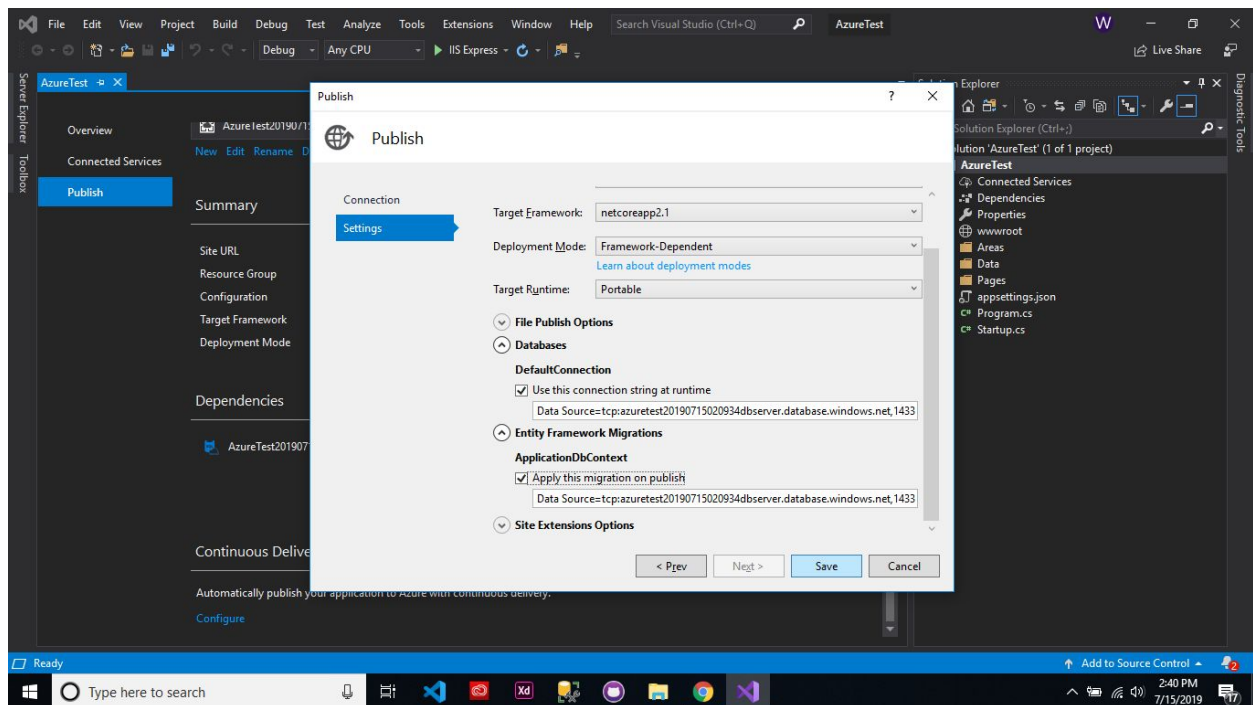
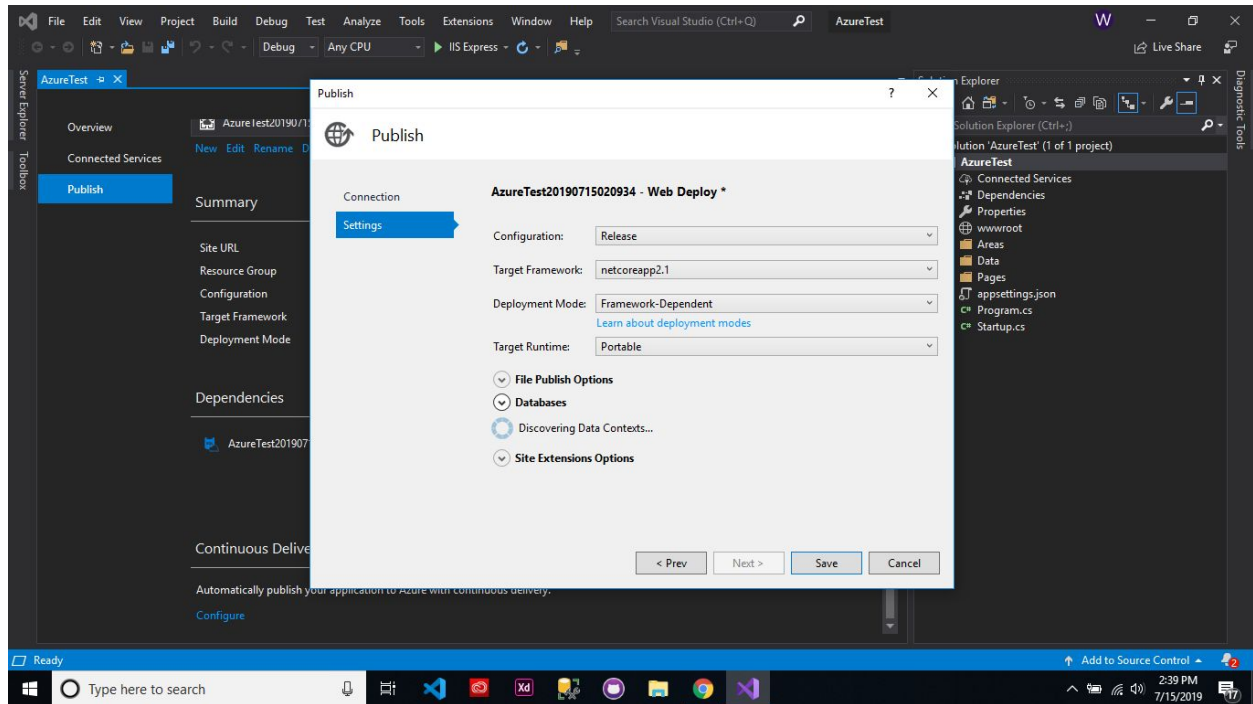




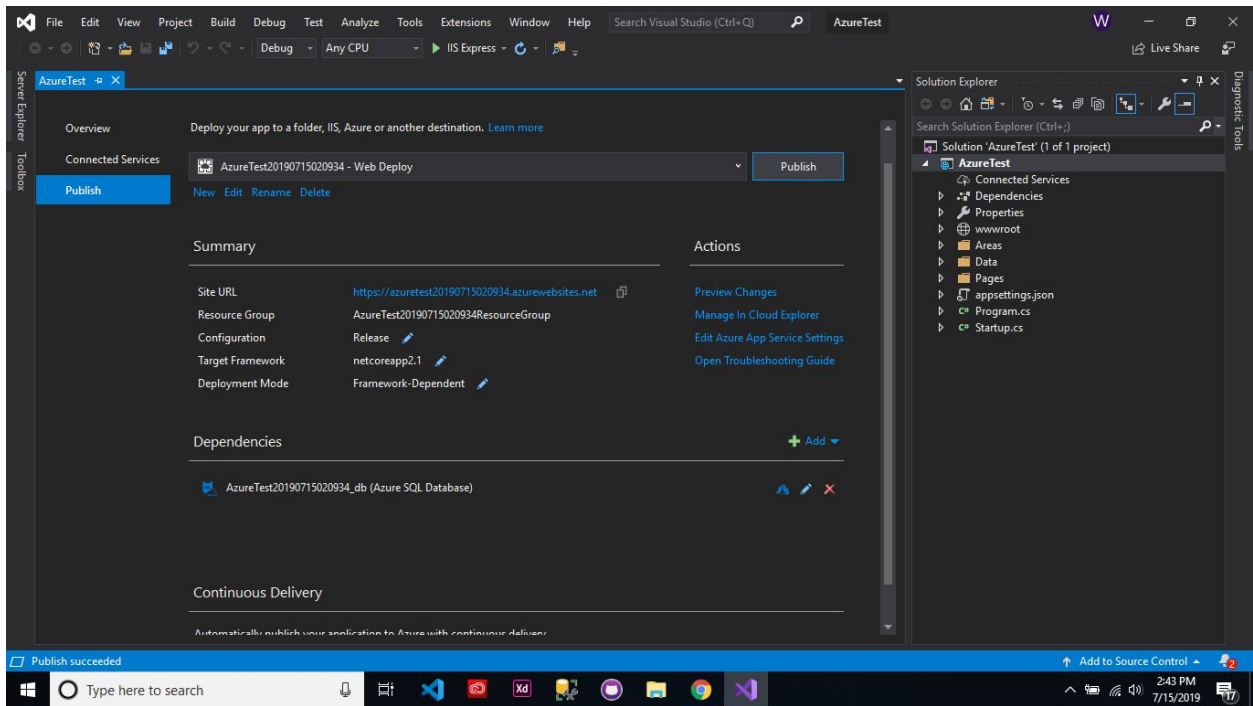
## My screen Example

\*NOTE

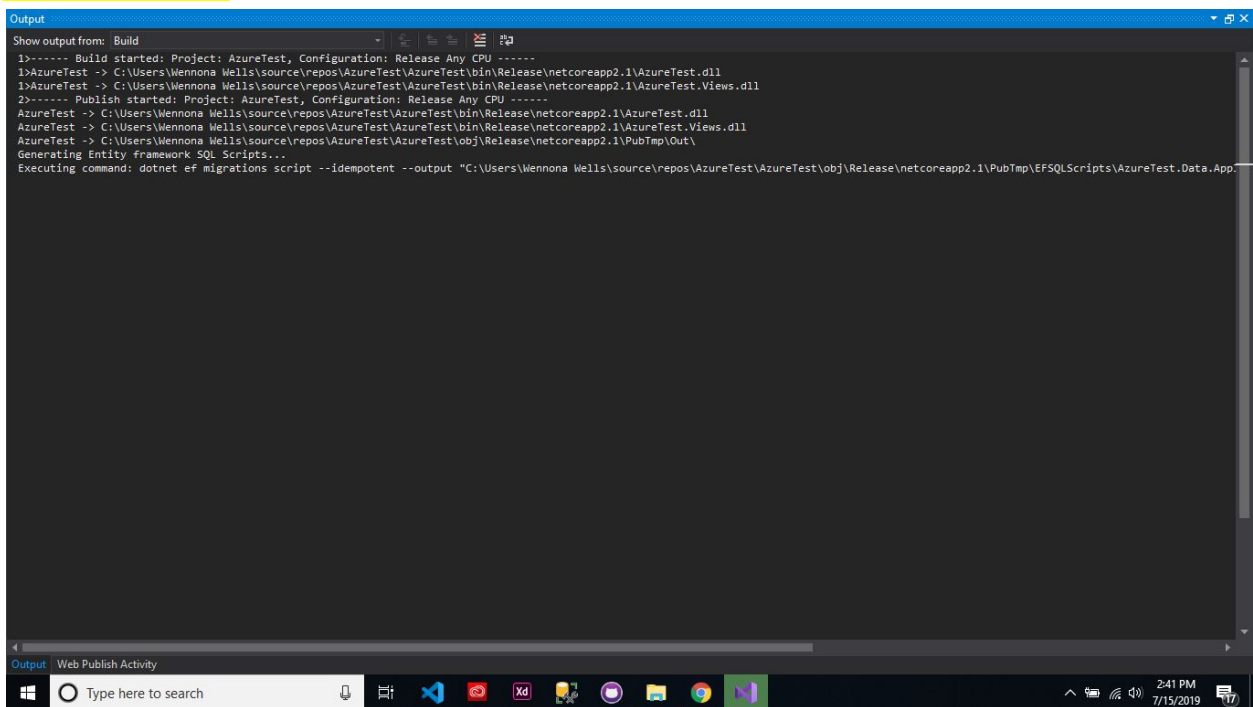
-To access **Settings** click **Edit** (where you see New, Edit, Rename, Delete)



**CLICK SAVE**



## CLICK PUBLISH



```

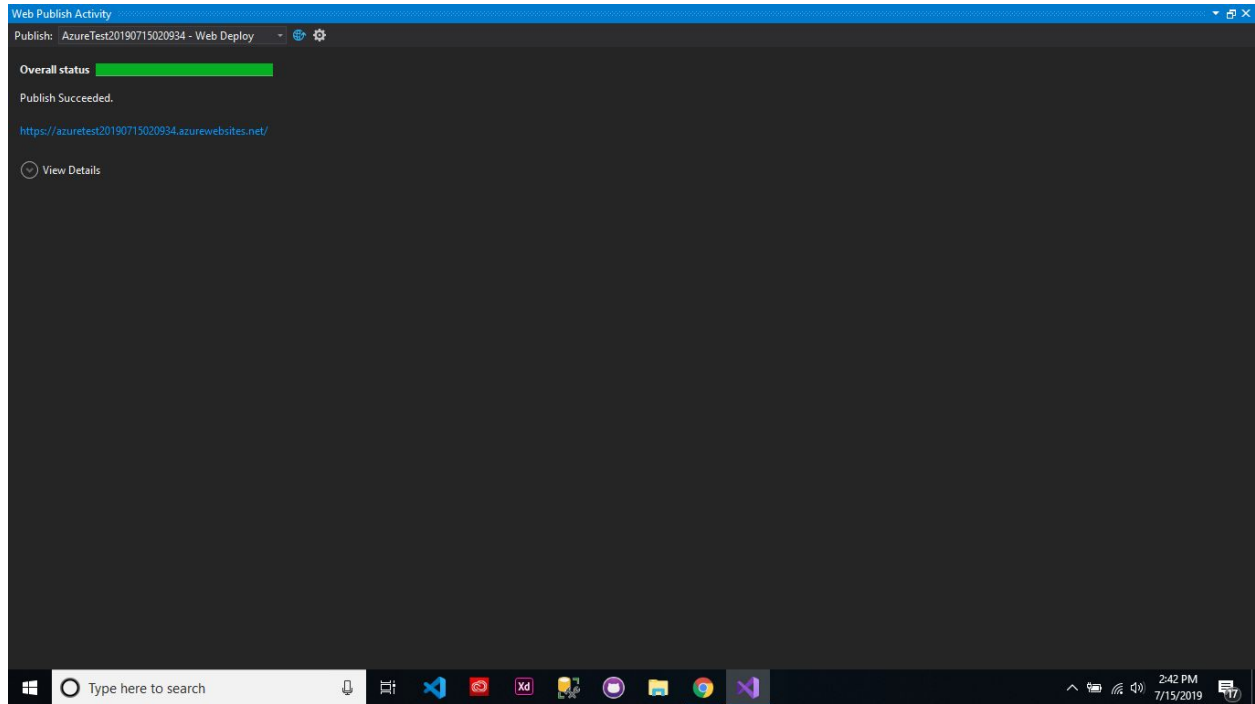
Output
Show output from: Build
1>----- Build started: Project: AzureTest, Configuration: Release Any CPU -----
1>AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.dll
1>AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.Views.dll
2>----- Publish started: Project: AzureTest, Configuration: Release Any CPU -----
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.dll
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.Views.dll
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\obj\Release\netcoreapp2.1\PubTmp\Out\
Generating Entity framework SQL Scripts...
Executing command: dotnet ef migrations script --idempotent --output "C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\obj\Release\netcoreapp2.1\PubTmp\EFSQLScripts\AzureTest.Data.App\
Generating Entity framework SQL Scripts completed successfully

```

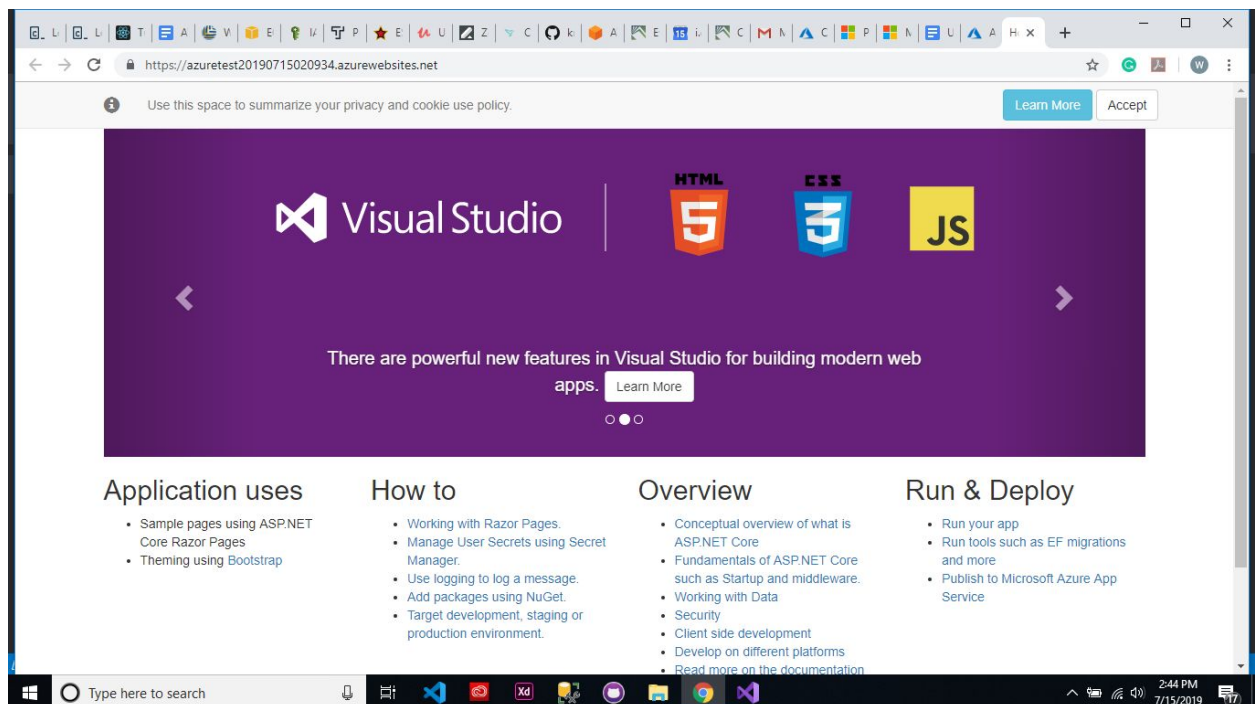
```

Web Publish Activity
Publish: AzureTest20190715020934 - Web Deploy
Overall status
Publish Succeeded.
https://azuretest20190715020934.azurewebsites.net/
View Details
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.dll
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\bin\Release\netcoreapp2.1\AzureTest.Views.dll
AzureTest -> C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\obj\Release\netcoreapp2.1\PubTmp\Out\
Generating Entity framework SQL Scripts...
Executing command: dotnet ef migrations script --idempotent --output "C:\Users\Wennona Wells\source\repos\AzureTest\AzureTest\obj\Release\netcoreapp2.1\PubTmp\EFSQLScripts\AzureTest.Data.ApplicationDbContext.sql" --context AzureTest.C
Generating Entity framework SQL Scripts completed successfully
Adding directory (AzureTest20190715020934\wwwroot).
Adding directory (AzureTest20190715020934\wwwroot\css).
Adding directory (AzureTest20190715020934\wwwroot\images).
Adding directory (AzureTest20190715020934\wwwroot\js).
Adding directory (AzureTest20190715020934\wwwroot\lib).
Adding directory (AzureTest20190715020934\wwwroot\lib\bootstrap).
Adding directory (AzureTest20190715020934\wwwroot\lib\bootstrap\dist).
Adding directory (AzureTest20190715020934\wwwroot\lib\bootstrap\dist\css).
Adding directory (AzureTest20190715020934\wwwroot\lib\bootstrap\dist\fonts).
Adding directory (AzureTest20190715020934\wwwroot\lib\bootstrap\dist\js).
Adding directory (AzureTest20190715020934\wwwroot\lib\jquery).
Adding directory (AzureTest20190715020934\wwwroot\lib\jquery\dist).
Adding directory (AzureTest20190715020934\wwwroot\lib\jquery-validation).
Adding directory (AzureTest20190715020934\wwwroot\lib\jquery-validation\dist).
Adding directory (AzureTest20190715020934\wwwroot\lib\jquery-validation\unobtrusive).
Adding database (data source= https://azuretest20190715020934.database.windows.net,1433;initial catalog= AzureTest20190715020934_db;user id= WwAzure@azuretest20190715020934dbserver)
Adding file (AzureTest20190715020934\appsettings.Development.json).
Adding file (AzureTest20190715020934\appsettings.json).
Adding file (AzureTest20190715020934\appsettings.production.json).
Adding file (AzureTest20190715020934\AzureTest.deps.json).
Adding file (AzureTest20190715020934\AzureTest.dll).
Adding file (AzureTest20190715020934\AzureTest.pdb).
Adding file (AzureTest20190715020934\AzureTest.runtimeconfig.json).
Adding file (AzureTest20190715020934\AzureTest.Views.dll).
Adding file (AzureTest20190715020934\AzureTest.Views.pdb).
Adding file (AzureTest20190715020934\web.config).
Adding file (AzureTest20190715020934\wwwroot\css\site.css).
Adding file (AzureTest20190715020934\wwwroot\css\site.min.css).
Adding file (AzureTest20190715020934\wwwroot\lib\bootstrap\dist\css\bootstrap.min.css).

```



<https://azuretest20190715020934.azurewebsites.net/>



## CONNECTING to Microsoft SQL Server

Go to MICROSOFT AZURE Dashboard(Portal)

Microsoft Azure Portal>Select SQL Databases > Select Connection string -

In the ADO.NET tab >

Highlight to Copy ONLY

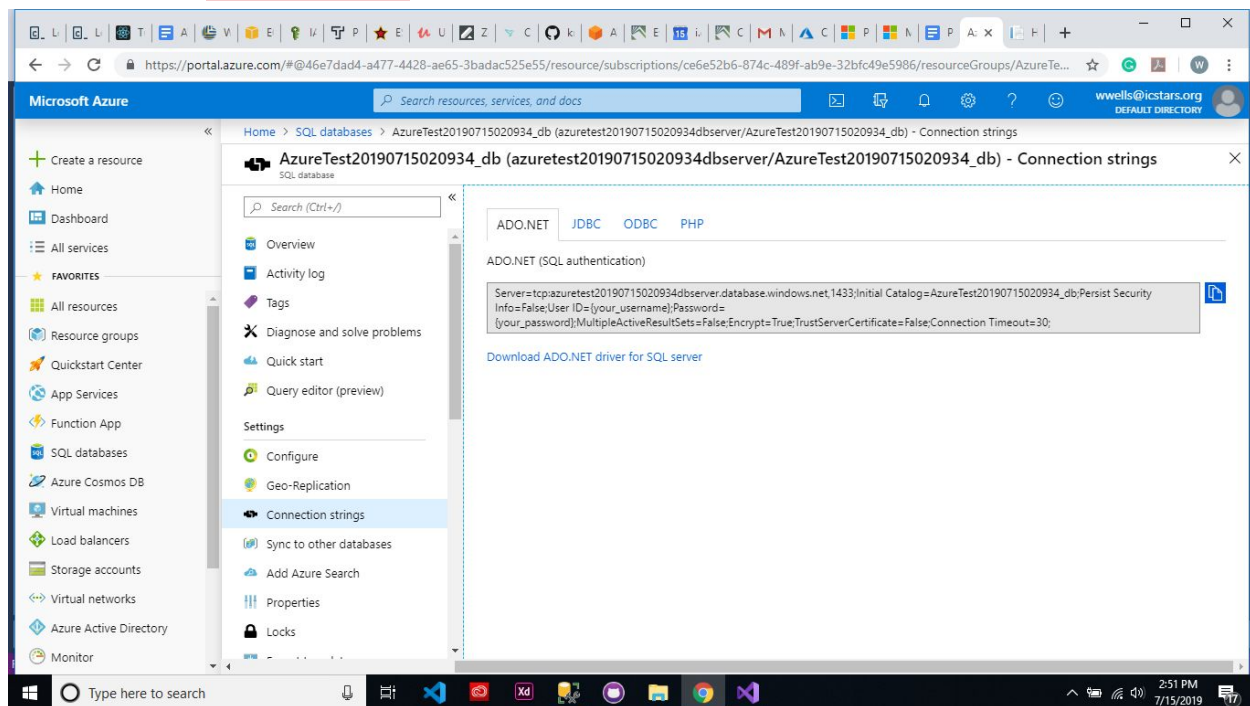
LOOK for the Server=tc;

Start and highlight to copy after the Server=tc;

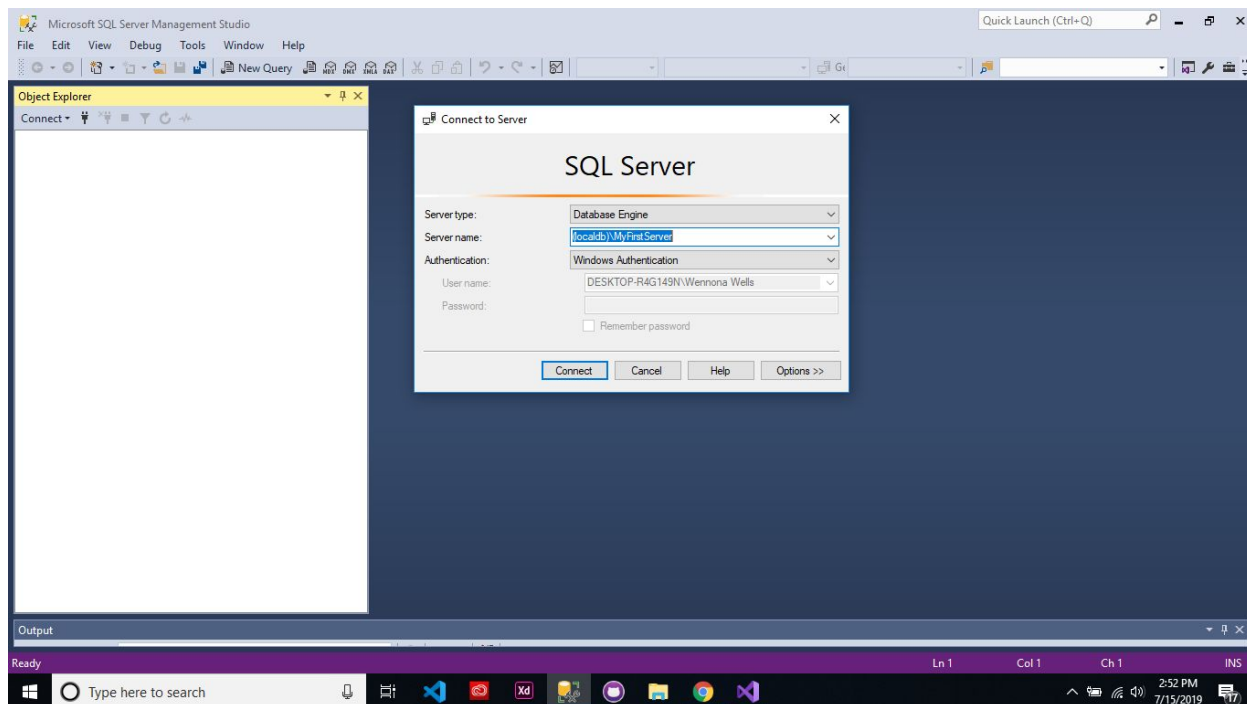
azuretest20190715020934dbserver.database.windows.net

\*NOTE

-DO NOT COPY the entire SQL Authentication, just need the server info.



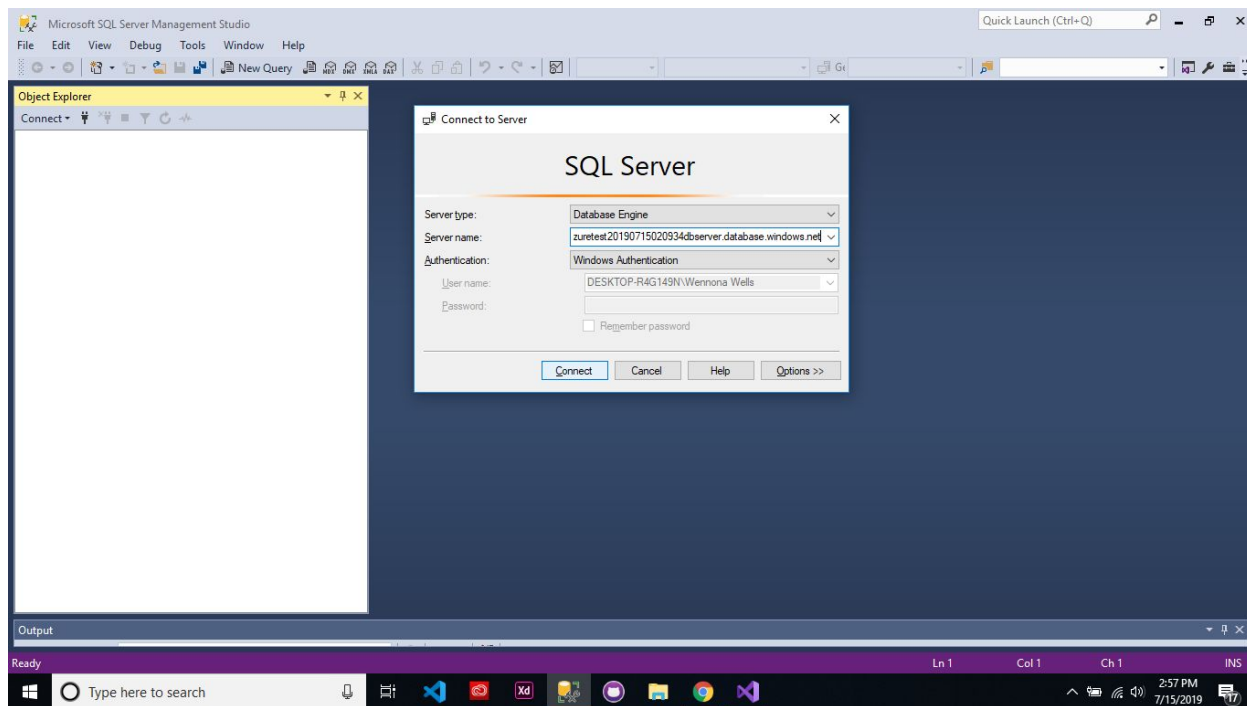
## Go to **Microsoft SQL Server Management Studio**



In the Server Name field paste YOUR own server name from the Microsoft Azure SQL Authentication.

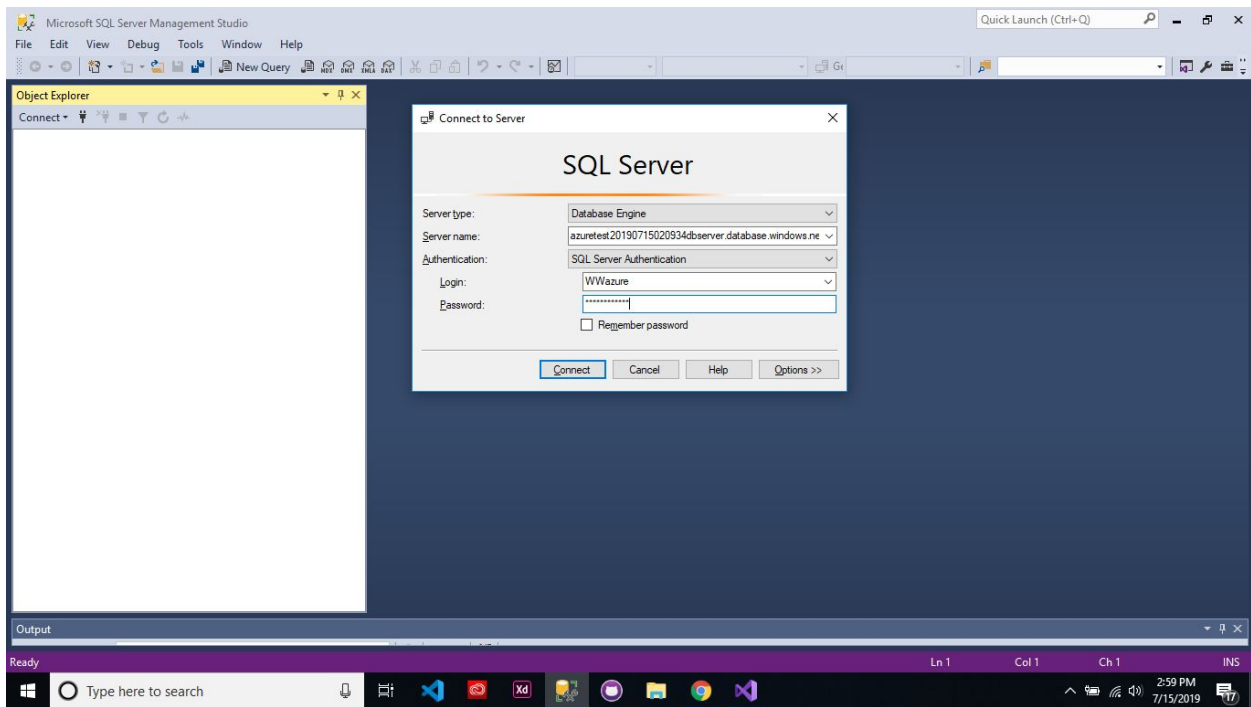
**My screen example**

**azuretest20190715020934dbserver.database.windows.net**

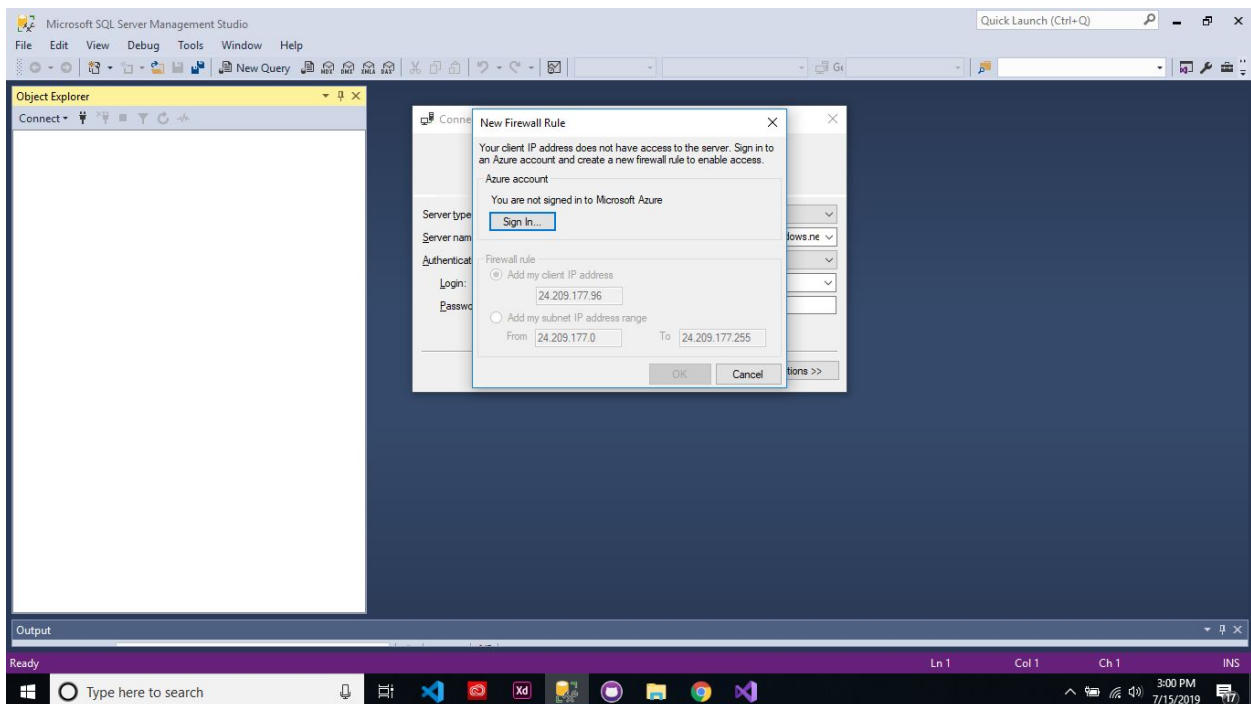




In the Authentication select from drop down SQL Server Authentication  
Enter your Admin Credentials (Refer to page 8 for recall)  
Select Connect

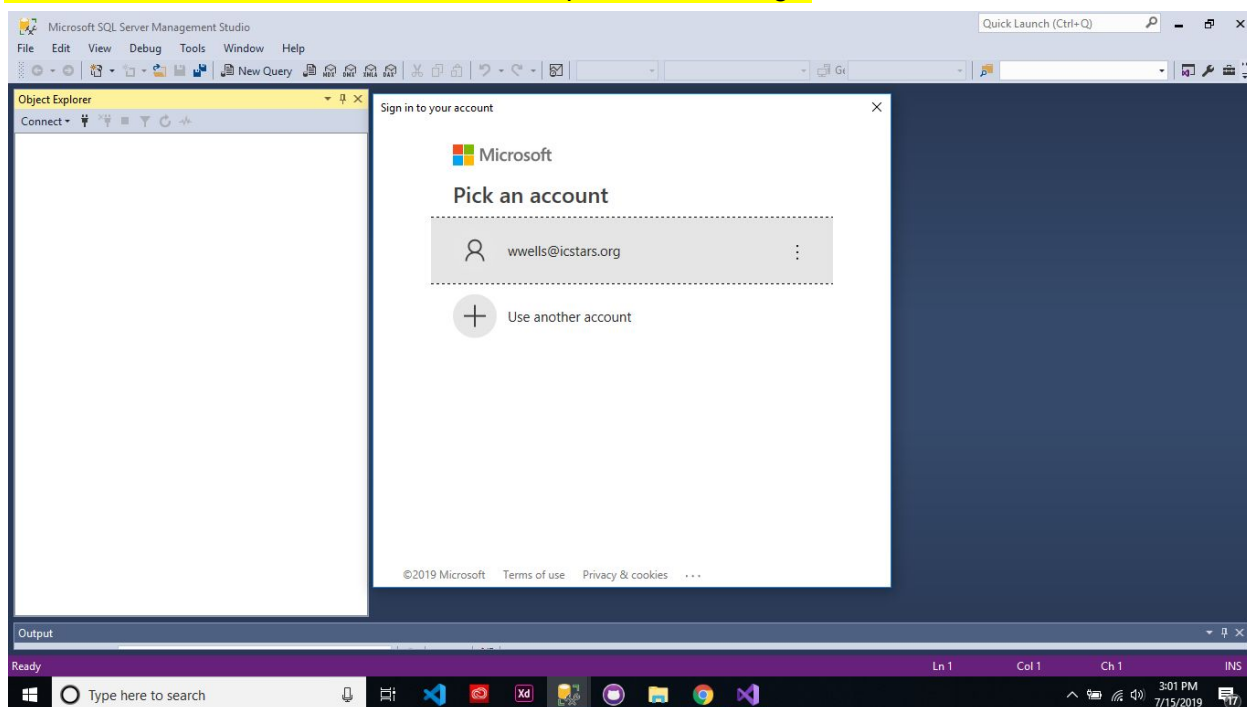


Select Sign In

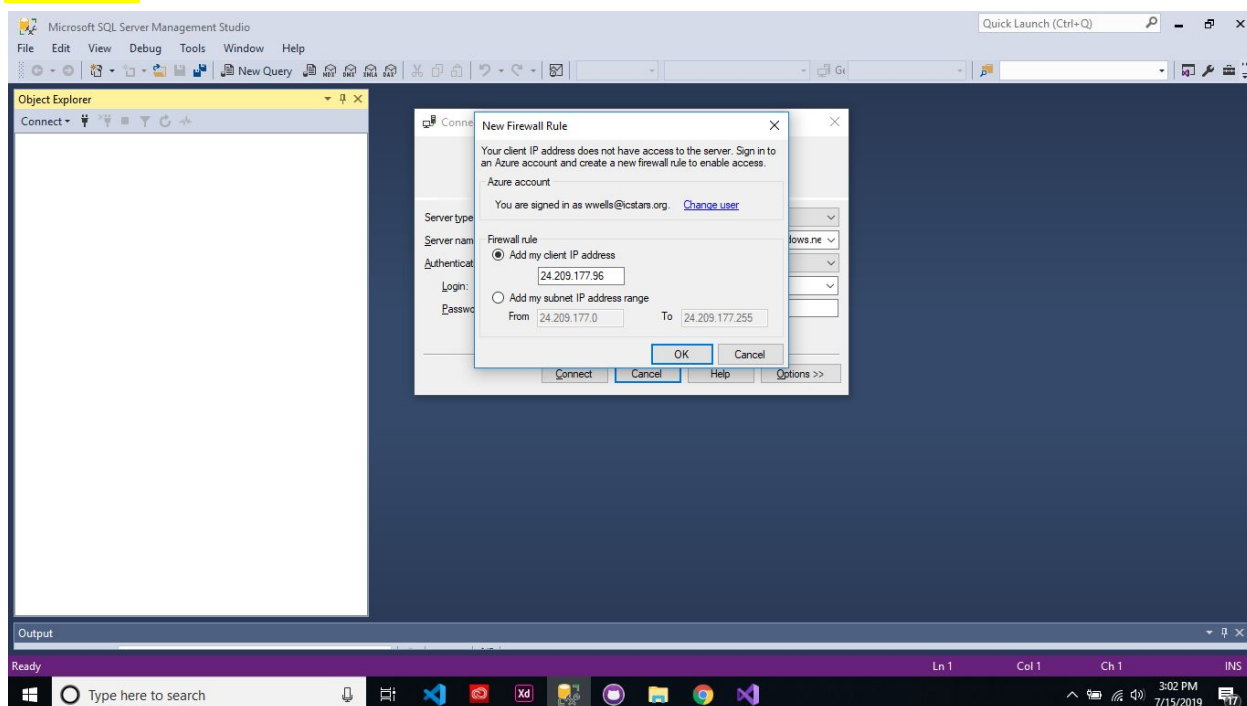




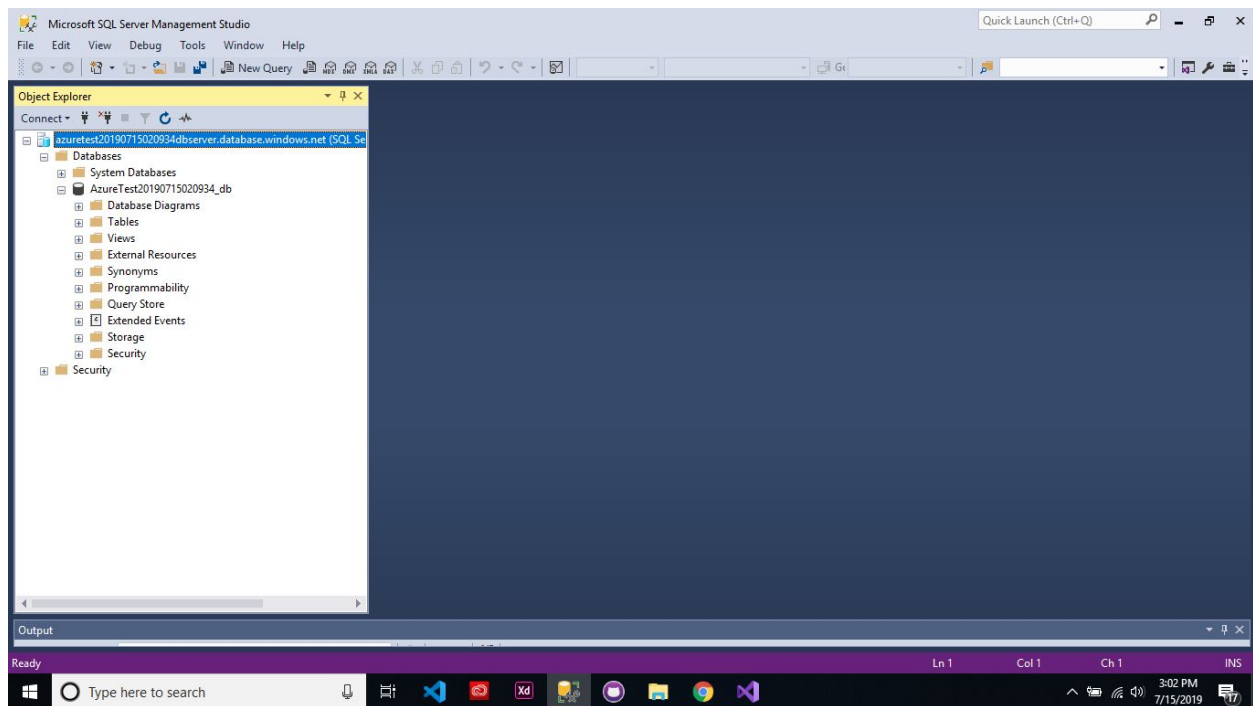
Select YOUR Microsoft Azure account and proceed with Login



CLICK OK



Go to **Microsoft SQL Server Management Studio**  
Validate you now see Server/Database



COOL BEANS