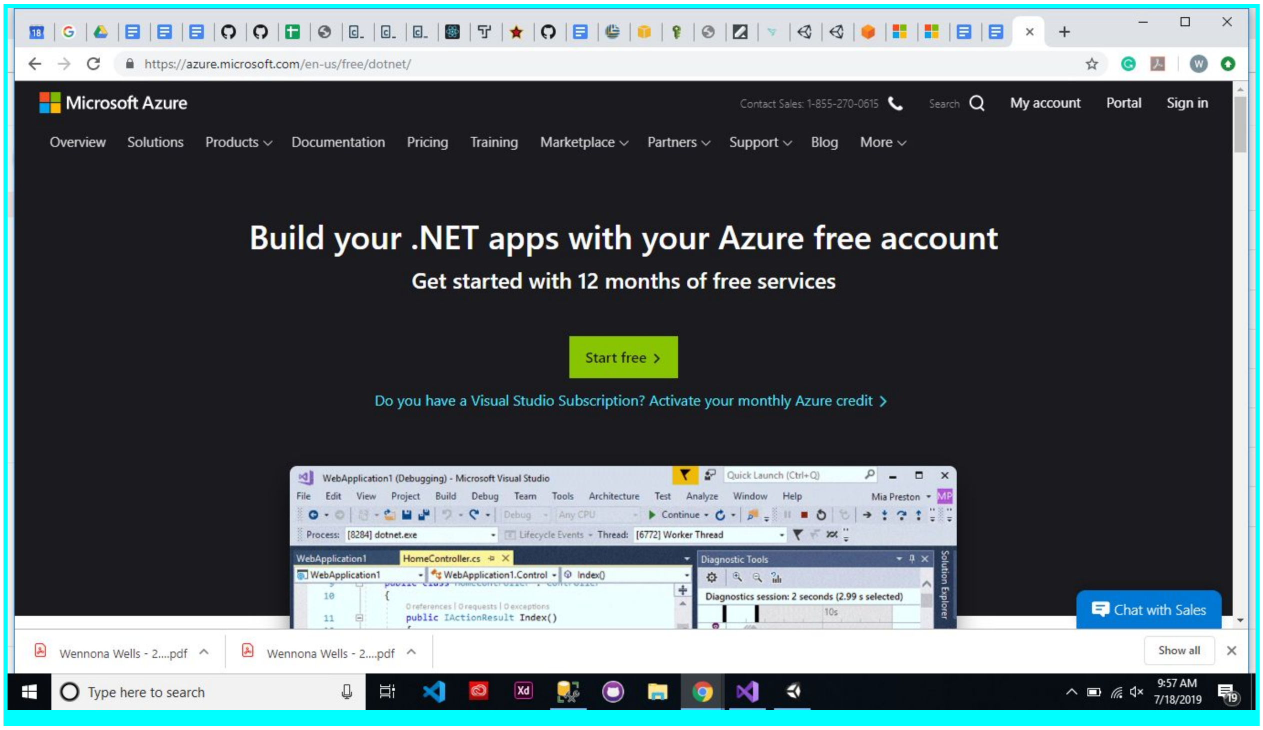
Wennona Wells
7/18/19

U Have CODE?- Publish an ASP.NET Core app to Azure with Visual Studio - Guide 2

CLICK Sign In



Build your .NET apps with your Azure free account

Get started with 12 months of free services

Do you have a Visual Studio Subscription? Activate your monthly Azure credit

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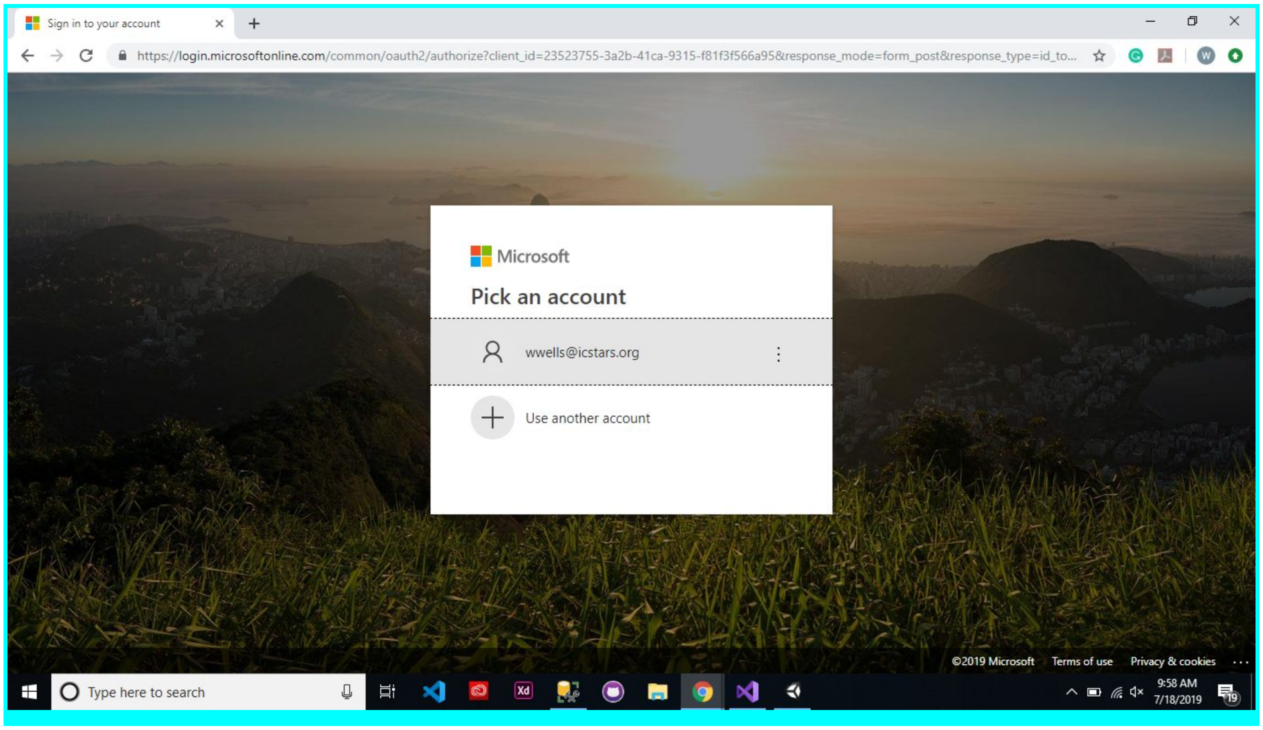
Sign in with Microsoft Azure credentials



Sign in to your account
https://login.microsoftonline.com/common/oauth2/authorize?client_id=23523755-3a2b-41ca-9315-f81f3f566a95&response_mode=form_post&response_type=id_to...
Type here to search
9:58 AM
7/18/2019

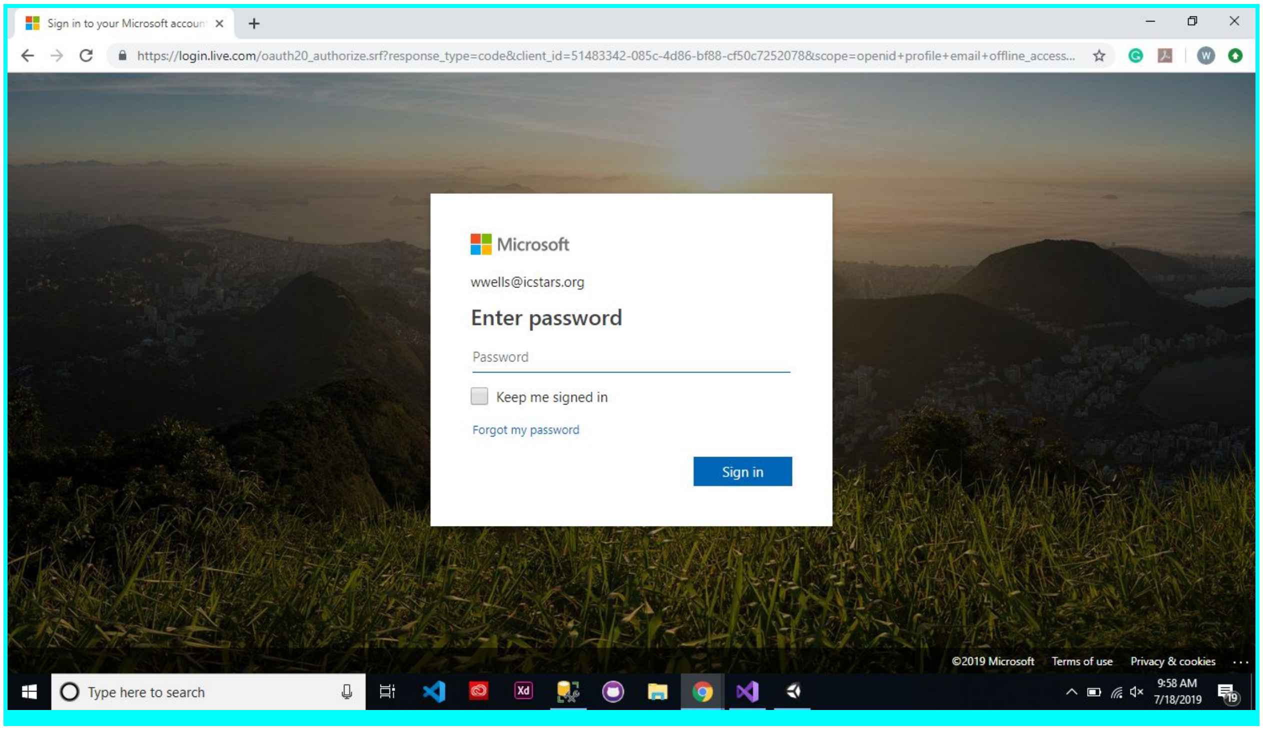
Microsoft

Pick an account

wwells@icstars.org

Use another account

©2019 Microsoft Terms of use Privacy & cookies ...



Sign in to your Microsoft accoun
https://login.live.com/oauth20_authorize.srf?response_type=code&client_id=51483342-085c-4d86-bf88-cf50c7252078&scope=openid+profile+email+offline_access...
Type here to search
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Microsoft

wwells@icstars.org

Enter password

Password

□ Keep me signed in

Forgot my password

Sign in

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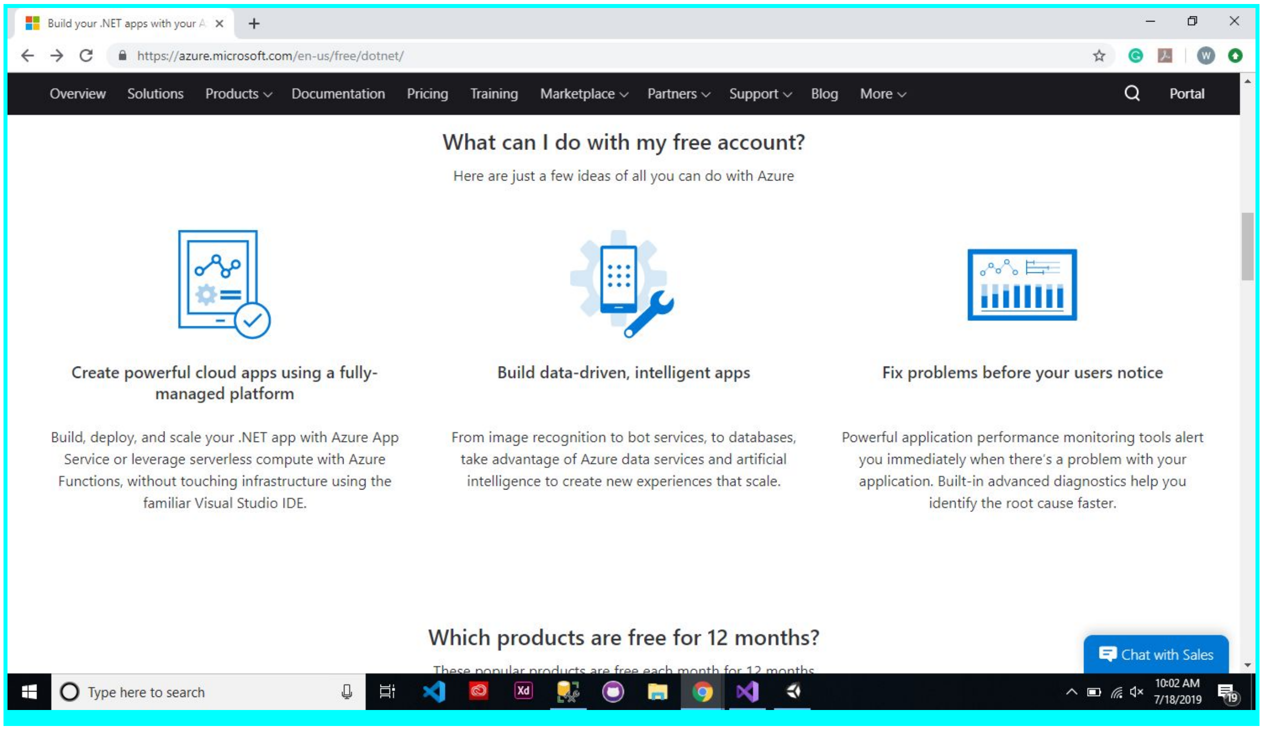


What can I do with my free account?

Here are just a few ideas of all you can do with Azure

Create powerful cloud apps using a fully-managed platform

Build, deploy, and scale your .NET app with Azure App Service or leverage serverless compute with Azure Functions, without touching infrastructure using the familiar Visual Studio IDE.

Build data-driven, intelligent apps

From image recognition to bot services, to databases, take advantage of Azure data services and artificial intelligence to create new experiences that scale.

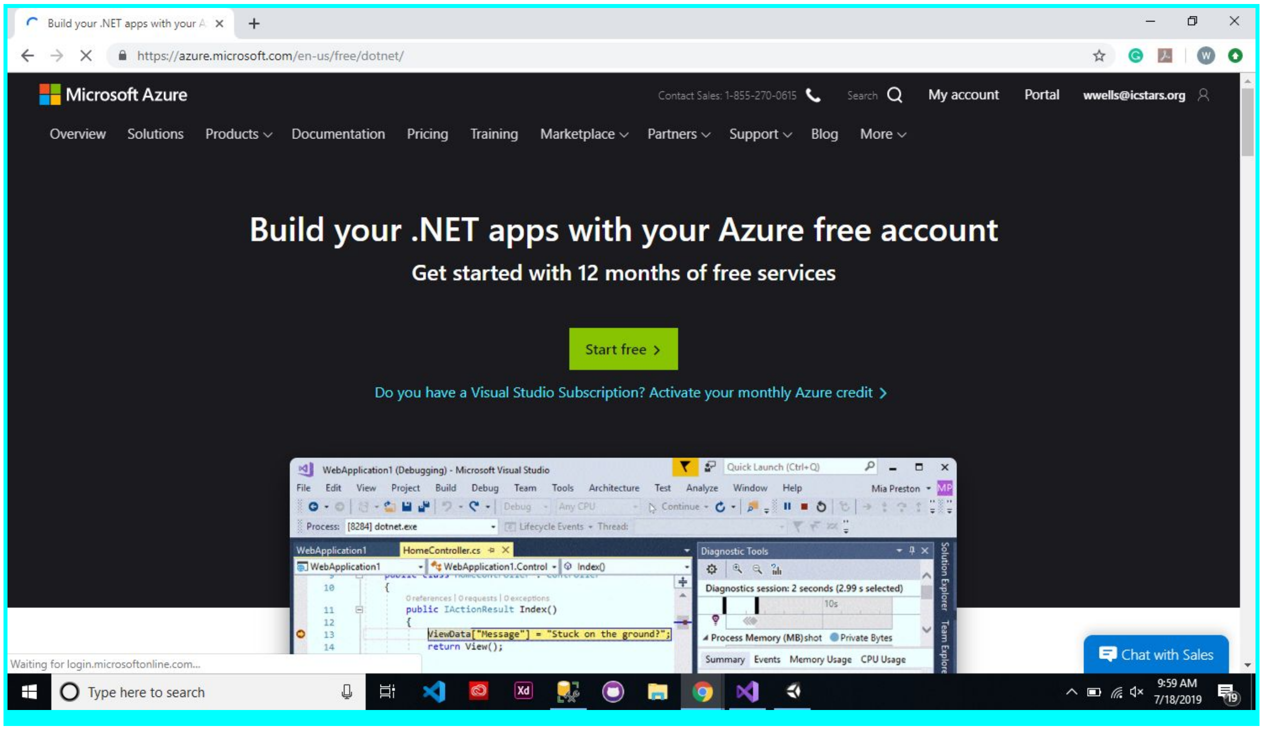
Fix problems before your users notice

Powerful application performance monitoring tools alert you immediately when there's a problem with your application. Built-in advanced diagnostics help you identify the root cause faster.

Which products are free for 12 months?

These popular products are free each month for 12 months

Log In Successful!



Build your .NET apps with your Azure free account

Get started with 12 months of free services

Do you have a Visual Studio Subscription? Activate your monthly Azure credit

```
public class HomeController : Controller
{
    0 references | 0 requests | 0 exceptions
    public IActionResult Index()
    {
        ViewData["Message"] = "Stuck on the ground?";
        return View();
```

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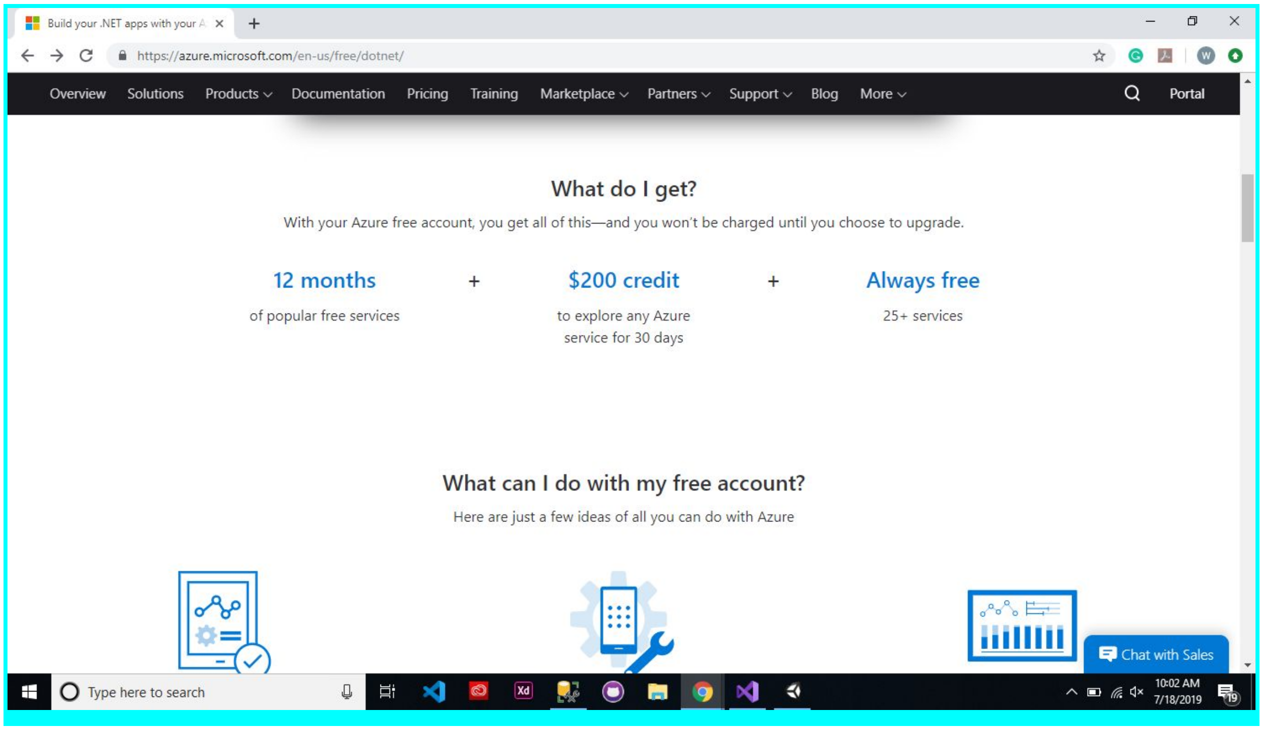


What do I get?

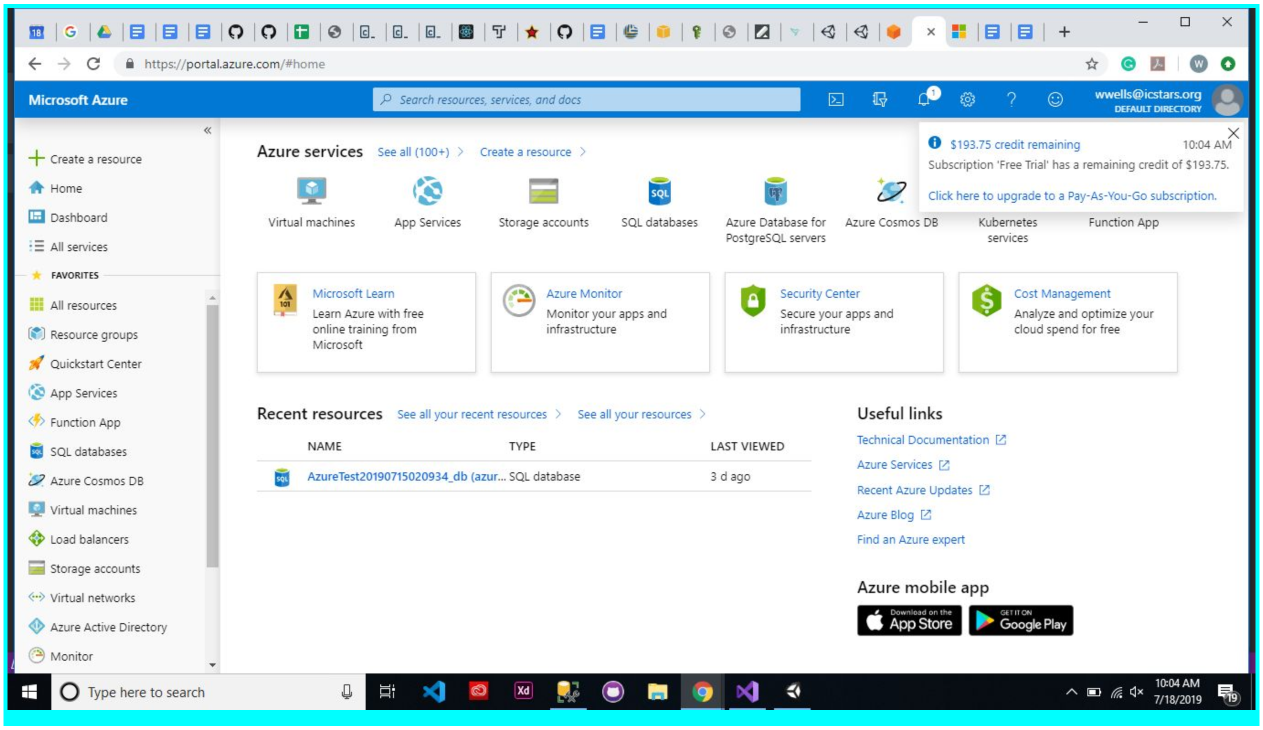
With your Azure free account, you get all of this—and you won't be charged until you choose to upgrade.

12 months	+	$200 credit	+	Always free
of popular free services		to explore any Azure service for 30 days		25+ services

What can I do with my free account?

Here are just a few ideas of all you can do with Azure

Dashboard Portal, keep this tab open for further steps



$193.75 credit remaining 10:04 AM
Subscription 'Free Trial' has a remaining credit of $193.75.
Click here to upgrade to a Pay-As-You-Go subscription.

Microsoft Learn
Learn Azure with free online training from Microsoft

Azure Monitor
Monitor your apps and infrastructure

Security Center
Secure your apps and infrastructure

Cost Management
Analyze and optimize your cloud spend for free

Recent resources · See all your recent resources · See all your resources

NAME	TYPE	LAST VIEWED
AzureTest20190715020934_db (azur...	SQL database	3 d ago

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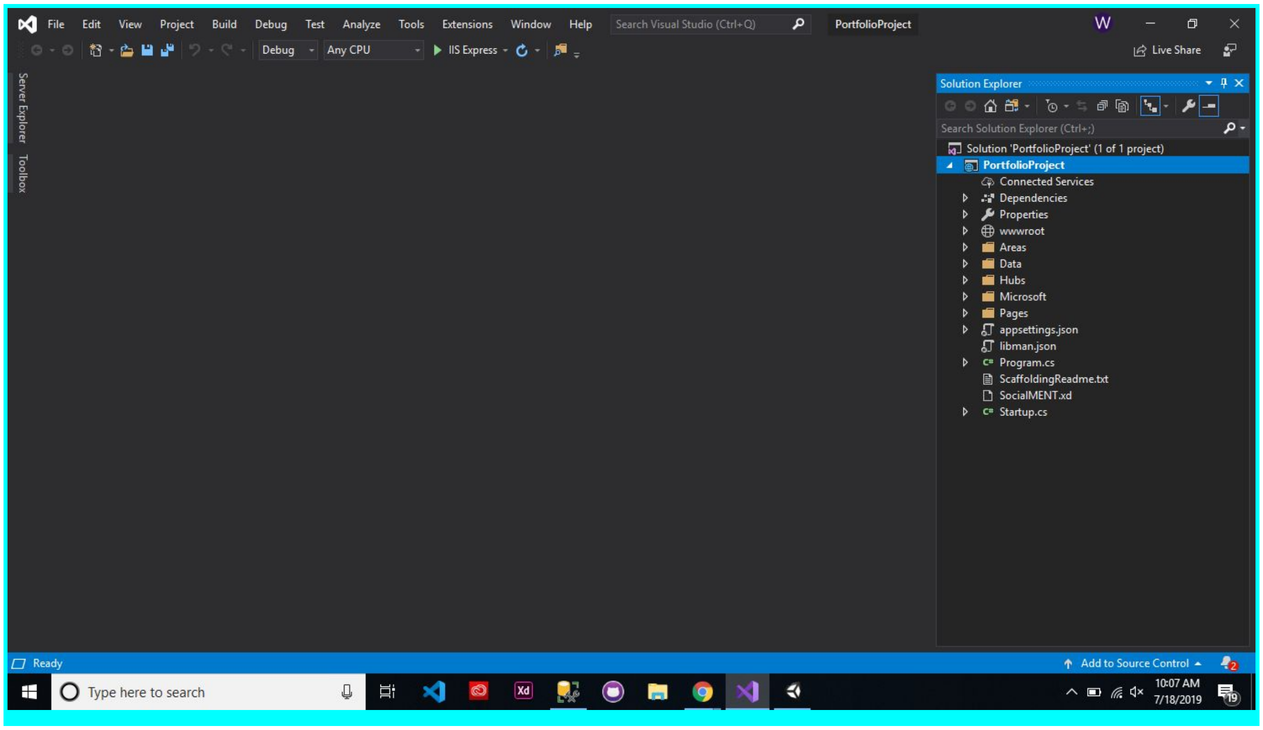
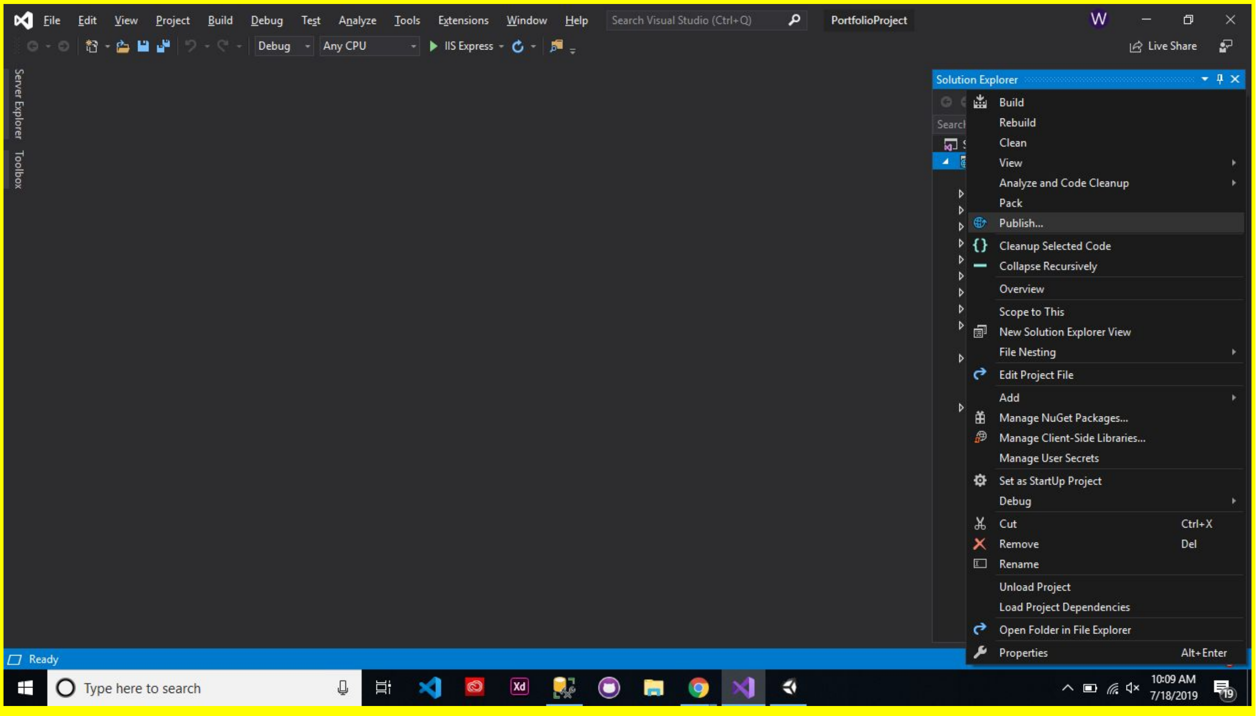
Open Project in Visual Studio 19



Right click on Project name for prompt



Click Publish

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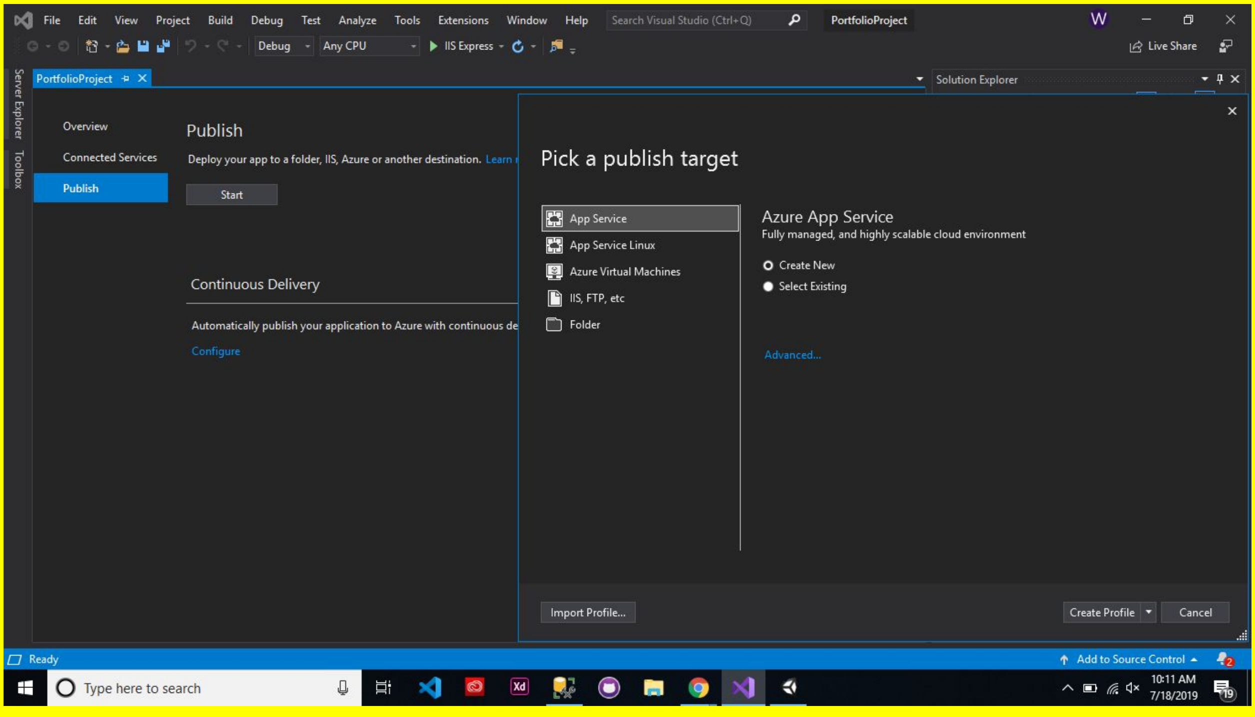
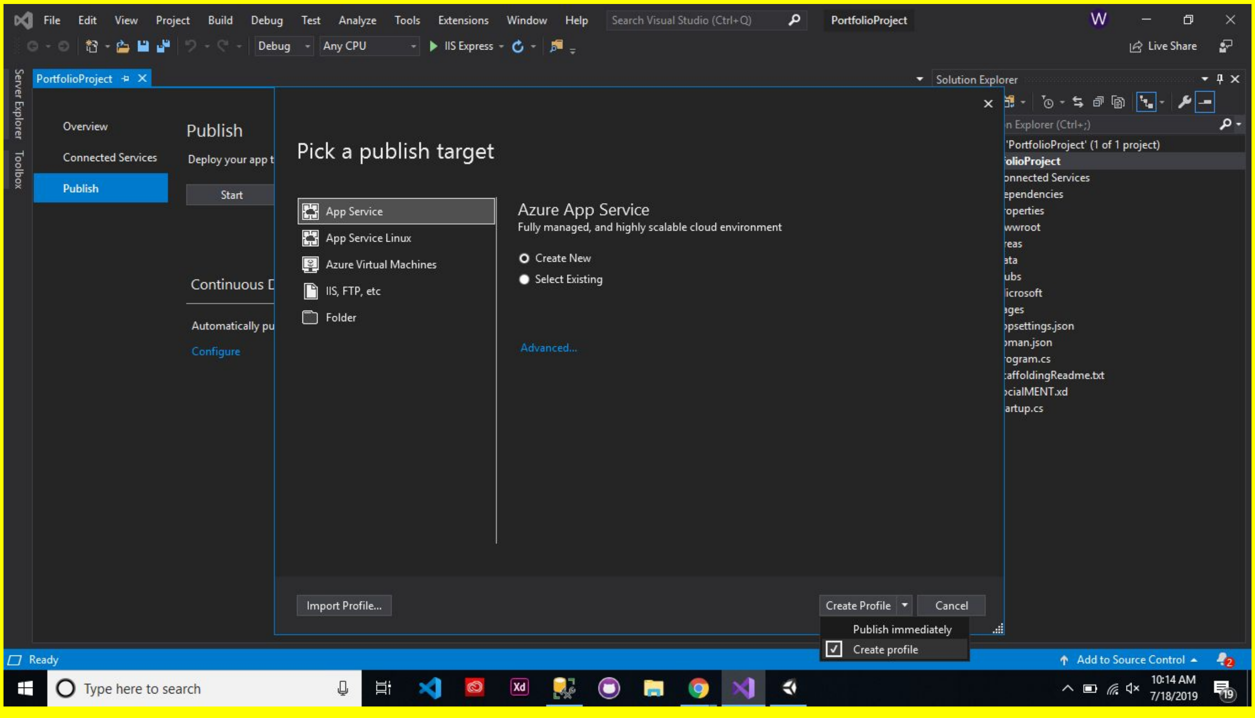


Pick a publish target>Select App Service

Azure App Service>Select Create New



Create Profile dropdown>Select Create profile

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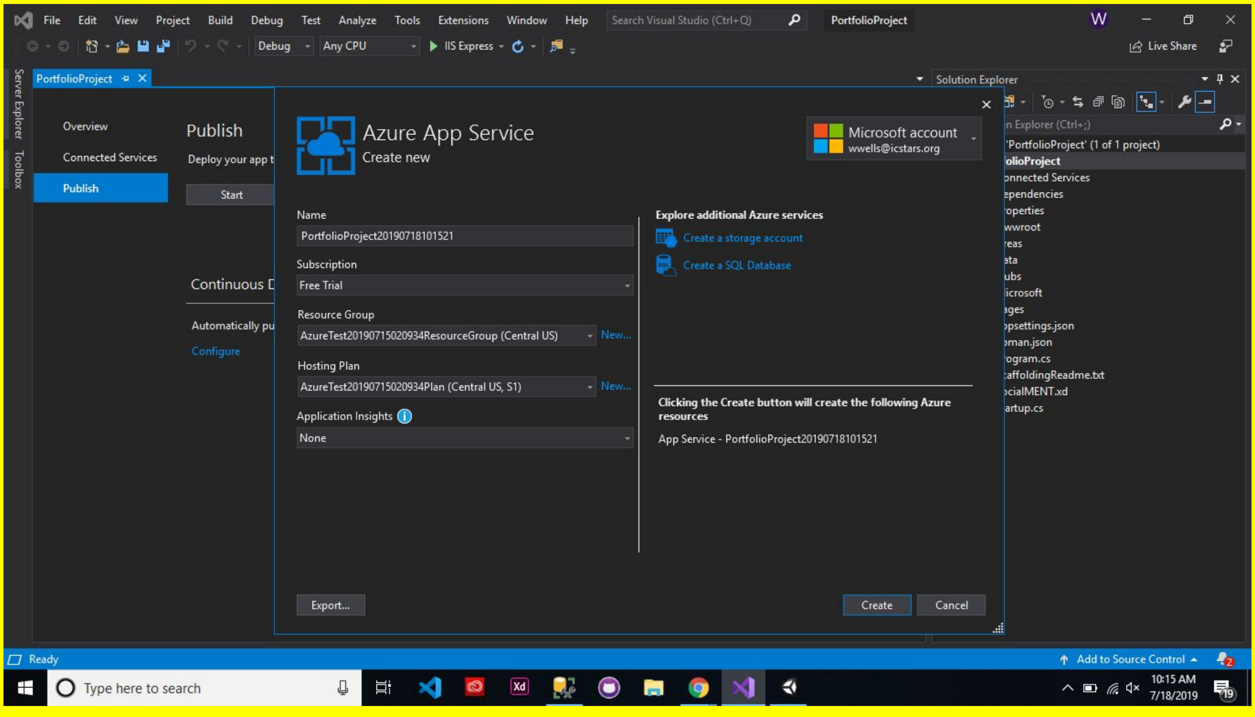


Azure App Service
Create new

Name
PortfolioProject20190718101521

Subscription
Free Trial

Resource Group
AzureTest20190715020934ResourceGroup (Central US)

Hosting Plan
AzureTest20190715020934Plan (Central US, S1)

Application Insights
None

Clicking the Create button will create the following Azure resources

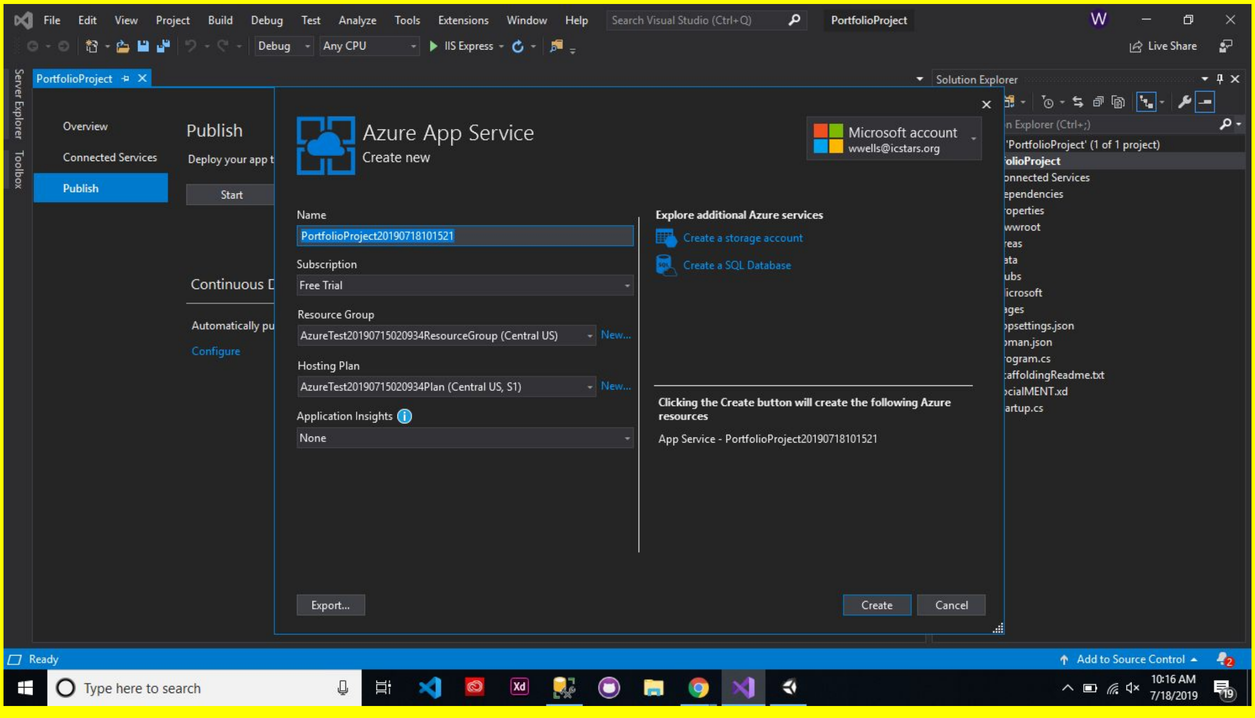
App Service - PortfolioProject20190718101521

Name: Should display YOUR Project name

Subscription: Free Trial

Resource Group: Populated

Hosting Plan: Populated



Azure App Service
Create new

Name
PortfolioProject20190718101521

Subscription
Free Trial

Resource Group
AzureTest20190715020934ResourceGroup (Central US)

Hosting Plan
AzureTest20190715020934Plan (Central US, S1)

Application Insights
None

Clicking the Create button will create the following Azure resources

App Service - PortfolioProject20190718101521

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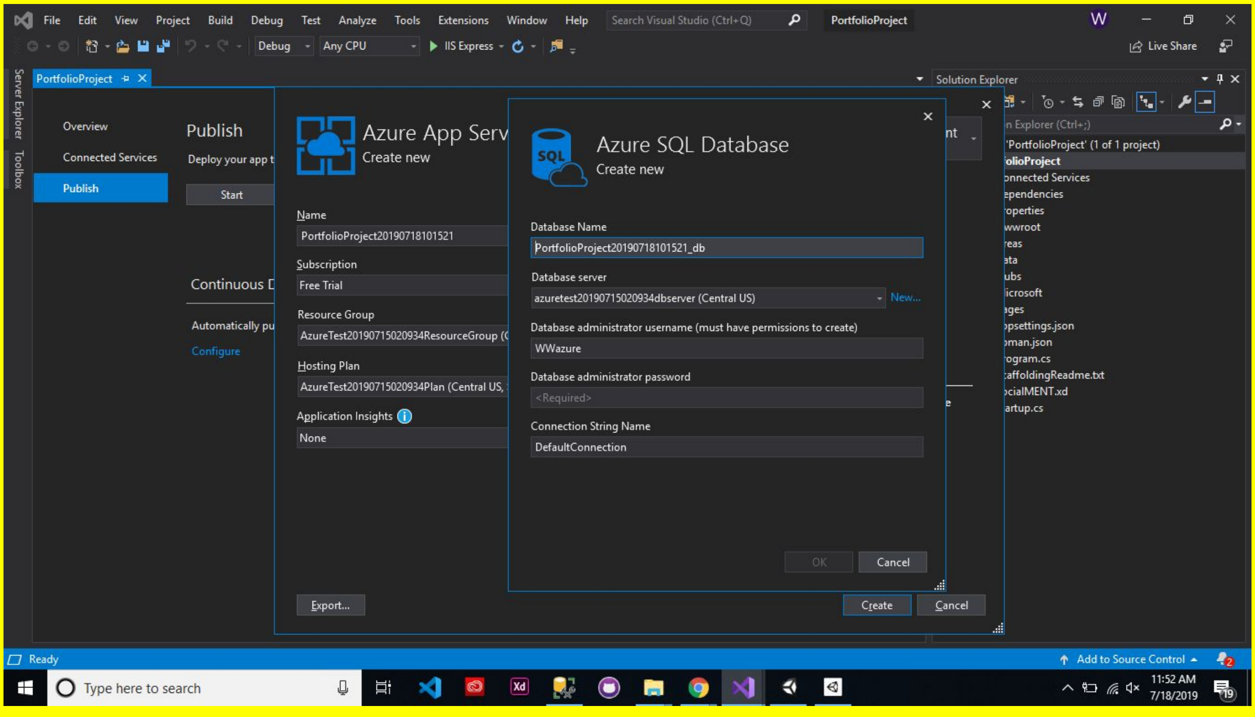
Click on Create a SQL Database



Azure App Serv
Create new

Name: PortfolioProject20190718101521
Subscription: Free Trial
Resource Group: AzureTest20190715020934ResourceGroup (
Hosting Plan: AzureTest20190715020934Plan (Central US,
Application Insights: None

Azure SQL Database
Create new

Database Name: PortfolioProject20190718101521_db
Database server: azuretest20190715020934dbserver (Central US)
Database administrator username (must have permissions to create): WWazure
Database administrator password: <Required>
Connection String Name: DefaultConnection

Follow next doc in order to connect to existing database

https://docs.microsoft.com/en-us/azure/app-service/app-service-web-tutorial-dotnet-sqldatabase

Create a SQL Server instance

Before creating a database, you need an [Azure SQL Database logical server](). A logical server contains a group of databases managed as a group.
Click Create a SQL Database.

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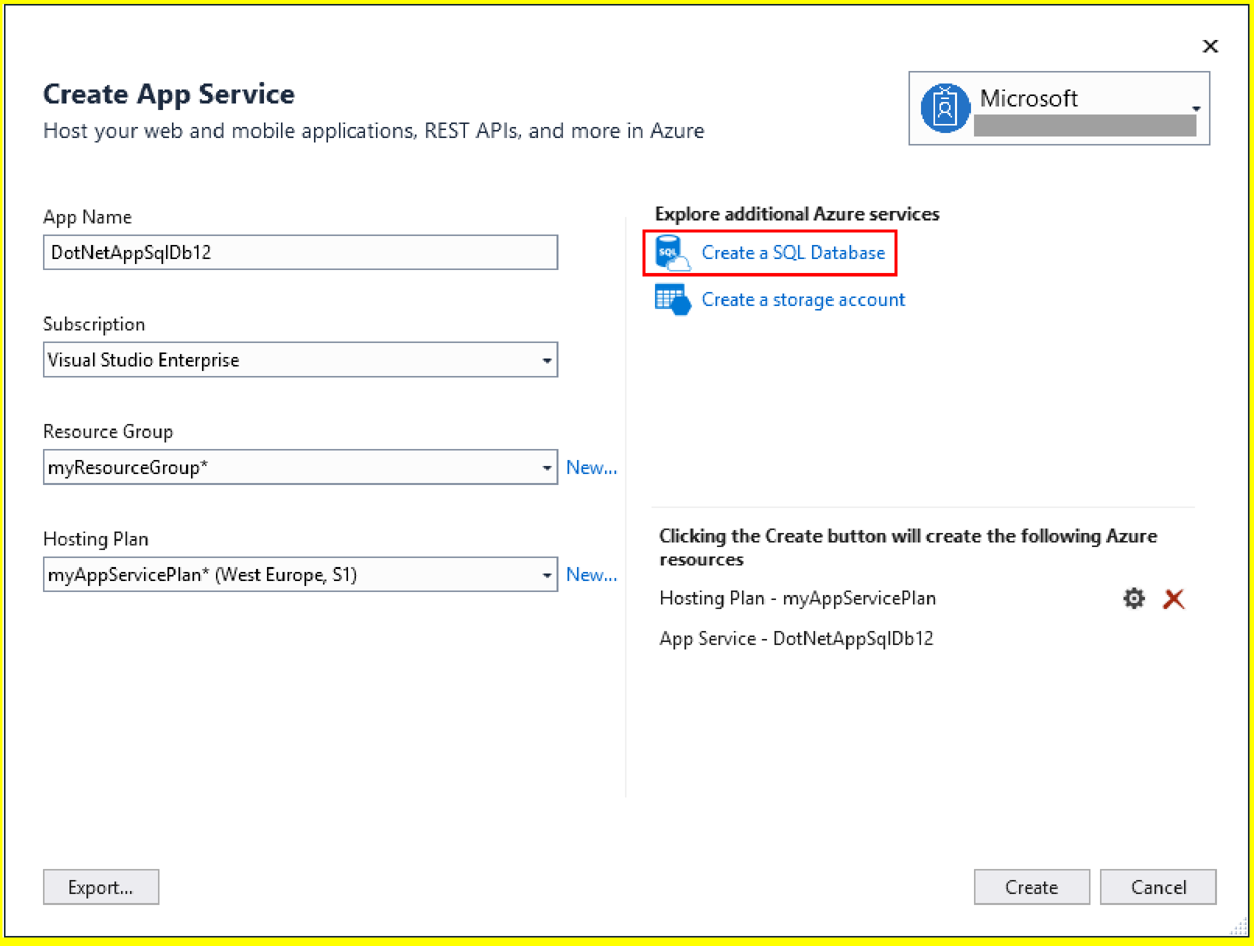

Create App Service

Host your web and mobile applications, REST APIs, and more in Azure

Microsoft
[redacted]

App Name: DotNetAppSqlDb12

Subscription: Visual Studio Enterprise

Resource Group: myResourceGroup*

Hosting Plan: myAppServicePlan* (West Europe, S1)

Explore additional Azure services

Create a SQL Database

Create a storage account

Clicking the Create button will create the following Azure resources

Hosting Plan - myAppServicePlan

App Service - DotNetAppSqlDb12

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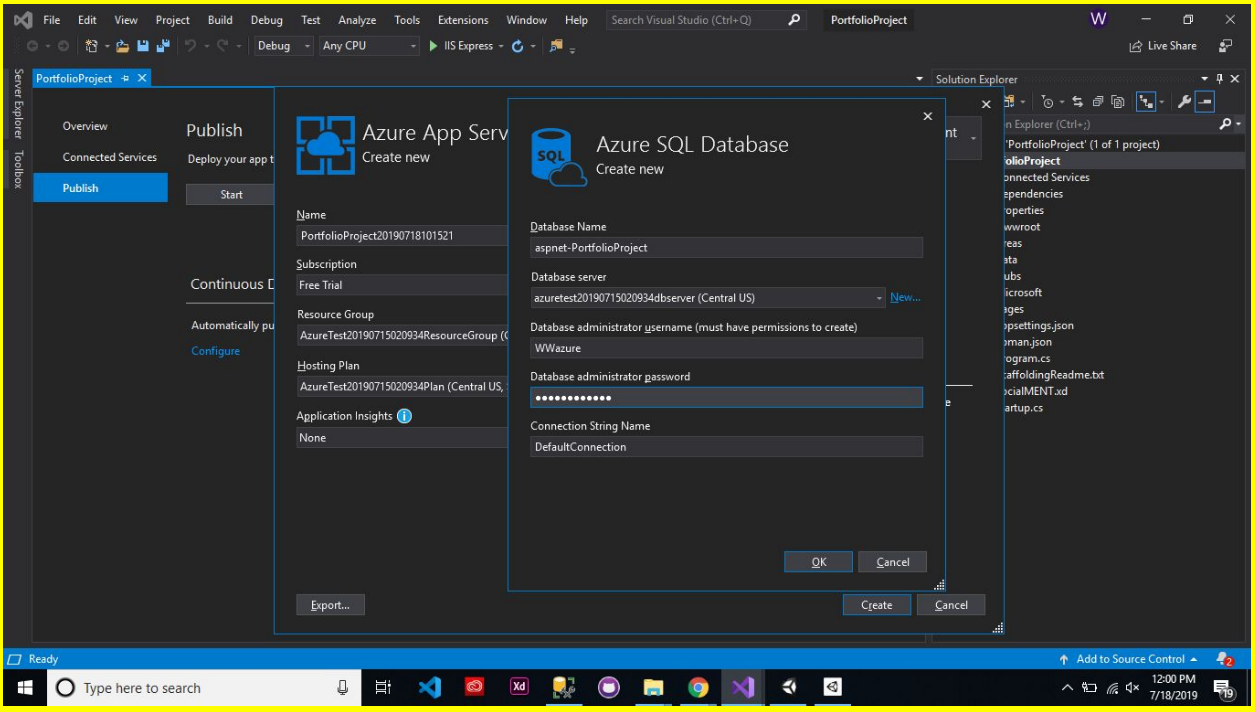
MY Screen example

Database Name - aspnet-PortfolioProject *(taken from SQL)*

Database Server - Using Azure Server created in Guide 1

Database Admin - Using Admin Credentials created in Guide 1



Name
PortfolioProject20190718101521

Subscription
Free Trial

Resource Group
AzureTest20190715020934ResourceGroup (C

Hosting Plan
AzureTest20190715020934Plan (Central US,

Application Insights
None

Azure SQL Database
Create new

Database Name
aspnet-PortfolioProject

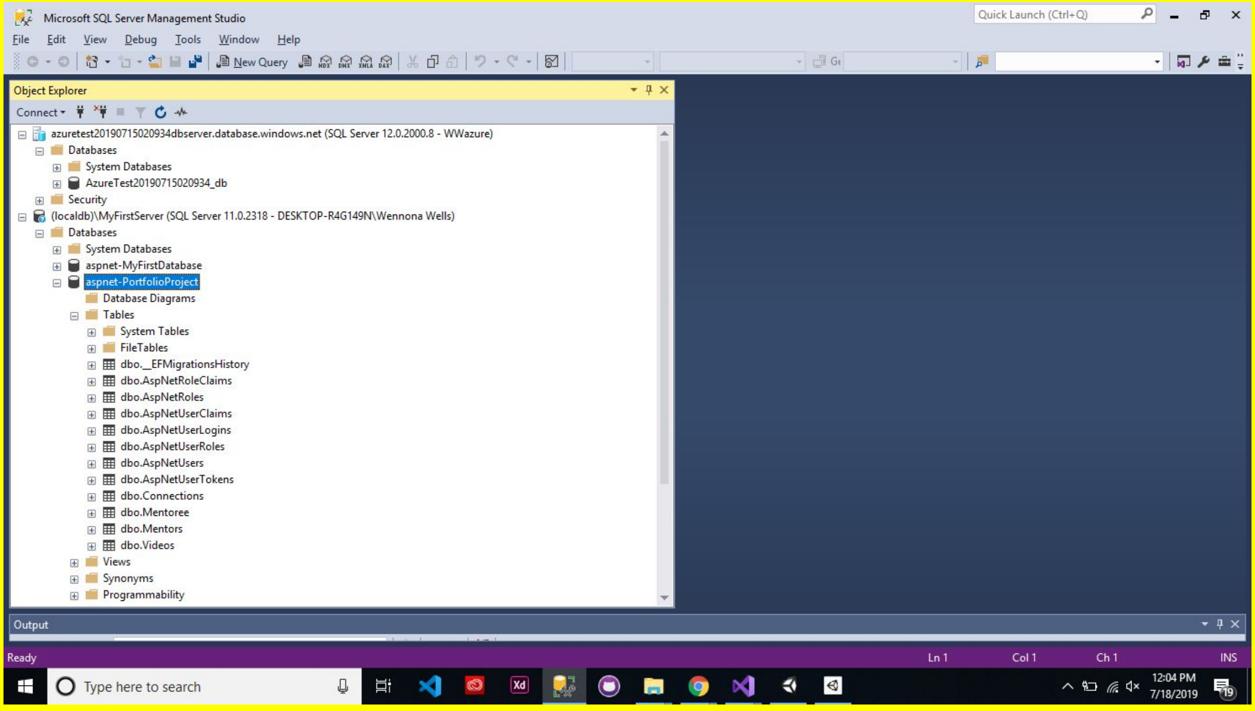
Database server
azuretest20190715020934dbserver (Central US) New...

Database administrator username (must have permissions to create)
WWazure

Database administrator password
••••••••••••

Connection String Name
DefaultConnection

OK Cancel



```
azuretest20190715020934dbserver.database.windows.net (SQL Server 12.0.2000.8 - WWazure)
  Databases
    System Databases
    AzureTest20190715020934_db
  Security
(localdb)\MyFirstServer (SQL Server 11.0.2318 - DESKTOP-R4G149N\Wennona Wells)
  Databases
    System Databases
    aspnet-MyFirstDatabase
    aspnet-PortfolioProject
      Database Diagrams
      Tables
        System Tables
        FileTables
        dbo.__EFMigrationsHistory
        dbo.AspNetRoleClaims
        dbo.AspNetRoles
        dbo.AspNetUserClaims
        dbo.AspNetUserLogins
        dbo.AspNetUserRoles
        dbo.AspNetUsers
        dbo.AspNetUserTokens
        dbo.Connections
        dbo.Mentoree
        dbo.Mentors
        dbo.Videos
      Views
      Synonyms
      Programmability
```

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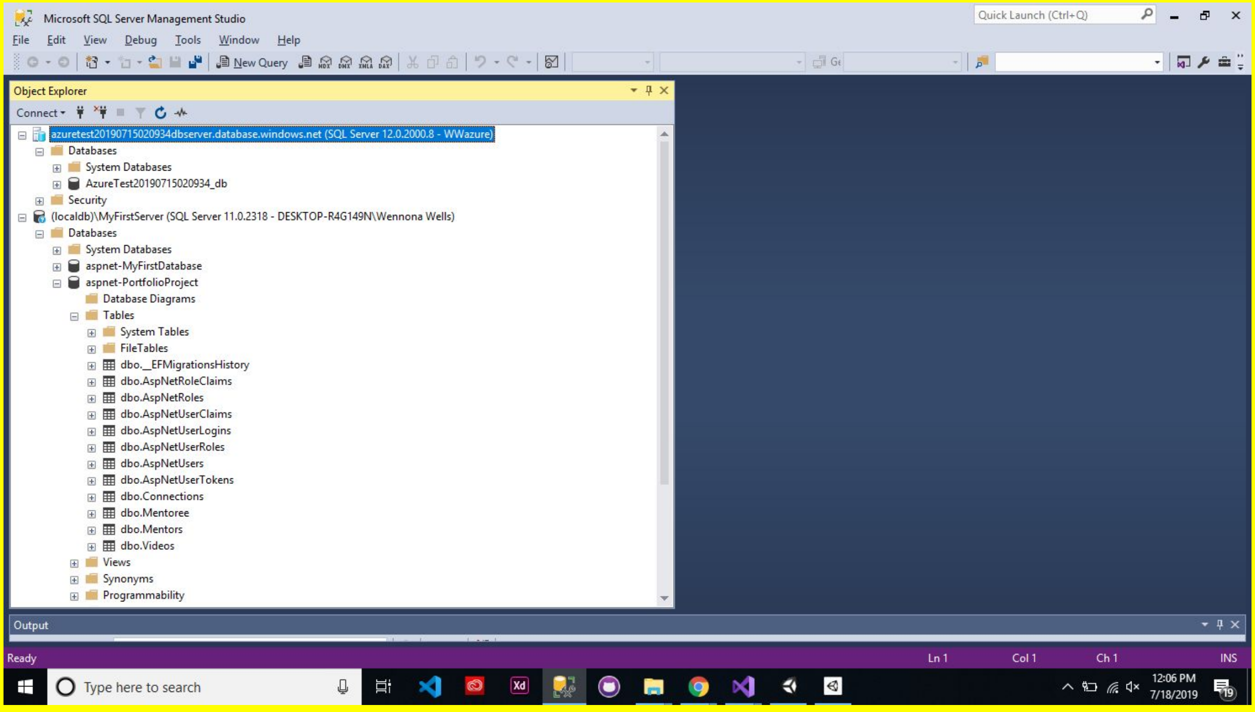
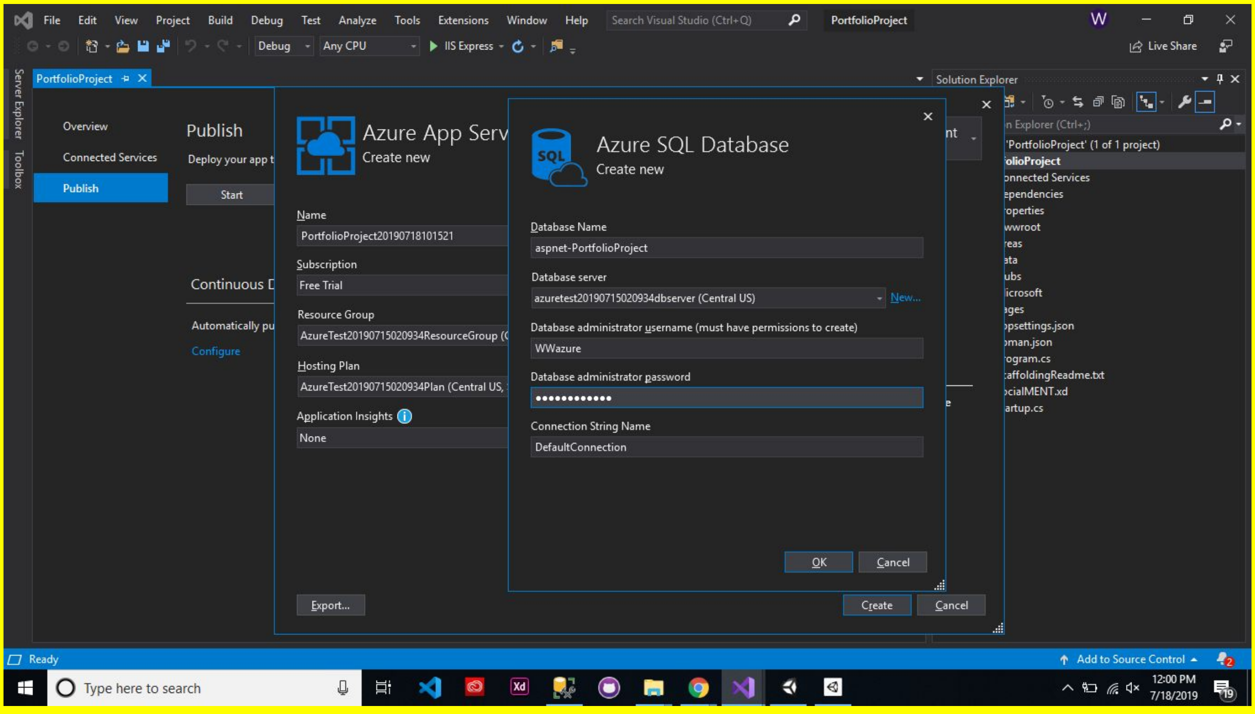

Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Debug Tools Window Help
New Query
Object Explorer
Connect

```
azuretest20190715020934dbserver.database.windows.net (SQL Server 12.0.2000.8 - WWazure)
  Databases
    System Databases
    AzureTest20190715020934_db
  Security
(localdb)\MyFirstServer (SQL Server 11.0.2318 - DESKTOP-R4G149N\Wennona Wells)
  Databases
    System Databases
    aspnet-MyFirstDatabase
    aspnet-PortfolioProject
      Database Diagrams
      Tables
        System Tables
        FileTables
        dbo.__EFMigrationsHistory
        dbo.AspNetRoleClaims
        dbo.AspNetRoles
        dbo.AspNetUserClaims
        dbo.AspNetUserLogins
        dbo.AspNetUserRoles
        dbo.AspNetUsers
        dbo.AspNetUserTokens
        dbo.Connections
        dbo.Mentoree
        dbo.Mentors
        dbo.Videos
      Views
      Synonyms
      Programmability
```



Name
PortfolioProject20190718101521

Subscription
Free Trial

Resource Group
AzureTest20190715020934ResourceGroup (C

Hosting Plan
AzureTest20190715020934Plan (Central US,

Application Insights
None

Azure SQL Database
Create new

Database Name
aspnet-PortfolioProject

Database server
azuretest20190715020934dbserver (Central US) New...

Database administrator username (must have permissions to create)
WWazure

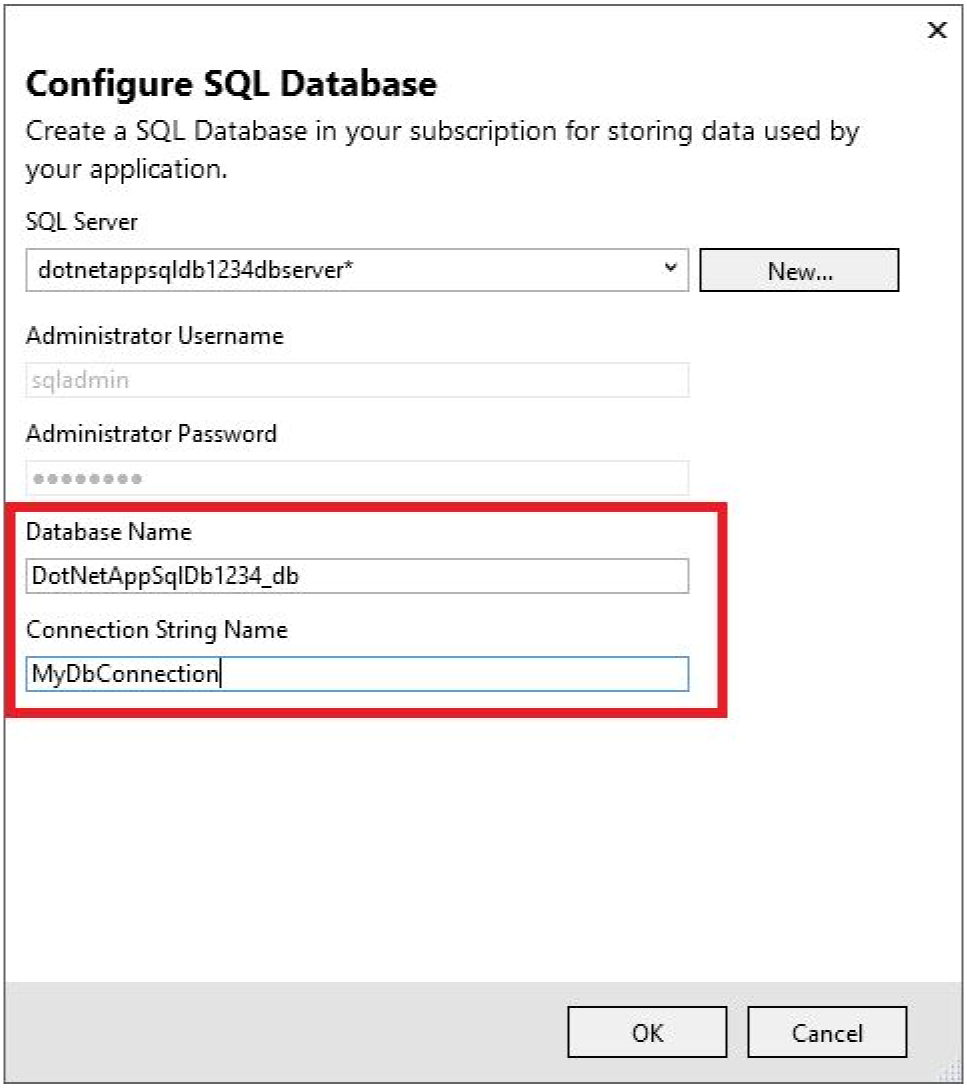
Database administrator password
••••••••••••

Connection String Name
DefaultConnection

OK Cancel

In the Configure SQL Database dialog:

- **Keep the default generated Database Name.**
- **In Connection String Name, type *MyDbConnection*. This name must match the connection string that is referenced in *Models/MyDatabaseContext.cs*.**
- **Select OK.**



Configure SQL Database

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

SQL Server: dotnetappsqldb1234dbserver*

Administrator Username: sqladmin

Administrator Password: ●●●●●●●●

Database Name: DotNetAppSqlDb1234_db

Connection String Name: MyDbConnection

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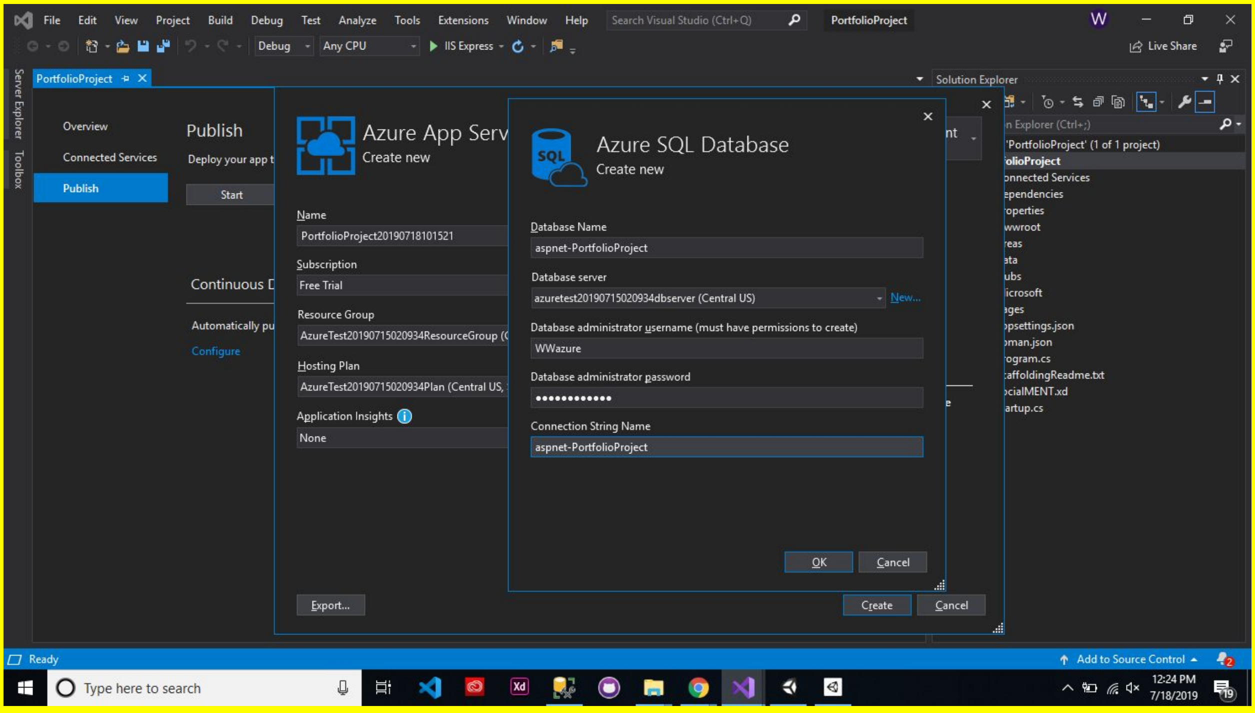
MY Screen example

Connection String Name - In VS19 appsettings



Name: PortfolioProject20190718101521

Subscription: Free Trial

Resource Group: AzureTest20190715020934ResourceGroup (

Hosting Plan: AzureTest20190715020934Plan (Central US,

Application Insights: None

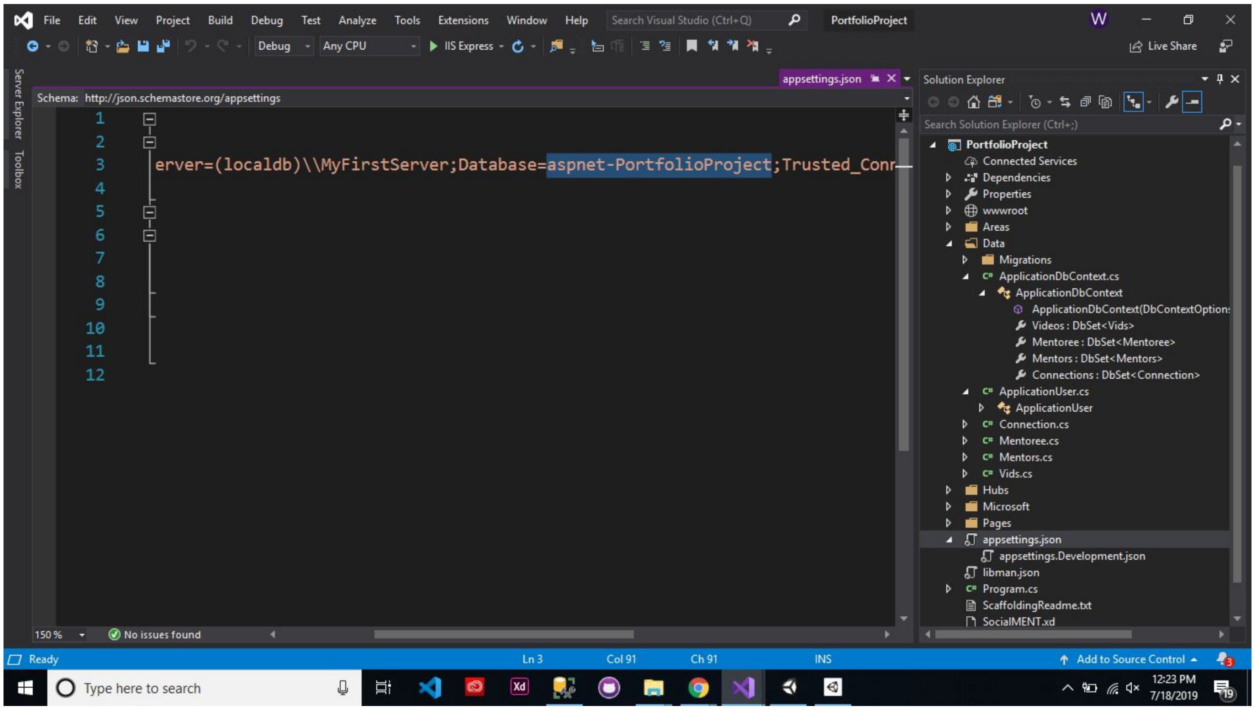
Database Name: aspnet-PortfolioProject

Database server: azuretest20190715020934dbserver (Central US)

Database administrator username (must have permissions to create): WWazure

Database administrator password: ••••••••••••

Connection String Name: aspnet-PortfolioProject



Schema: http://json.schemastore.org/appsettings

```
erver=(localdb)\\MyFirstServer;Database=aspnet-PortfolioProject;Trusted_Conr
```

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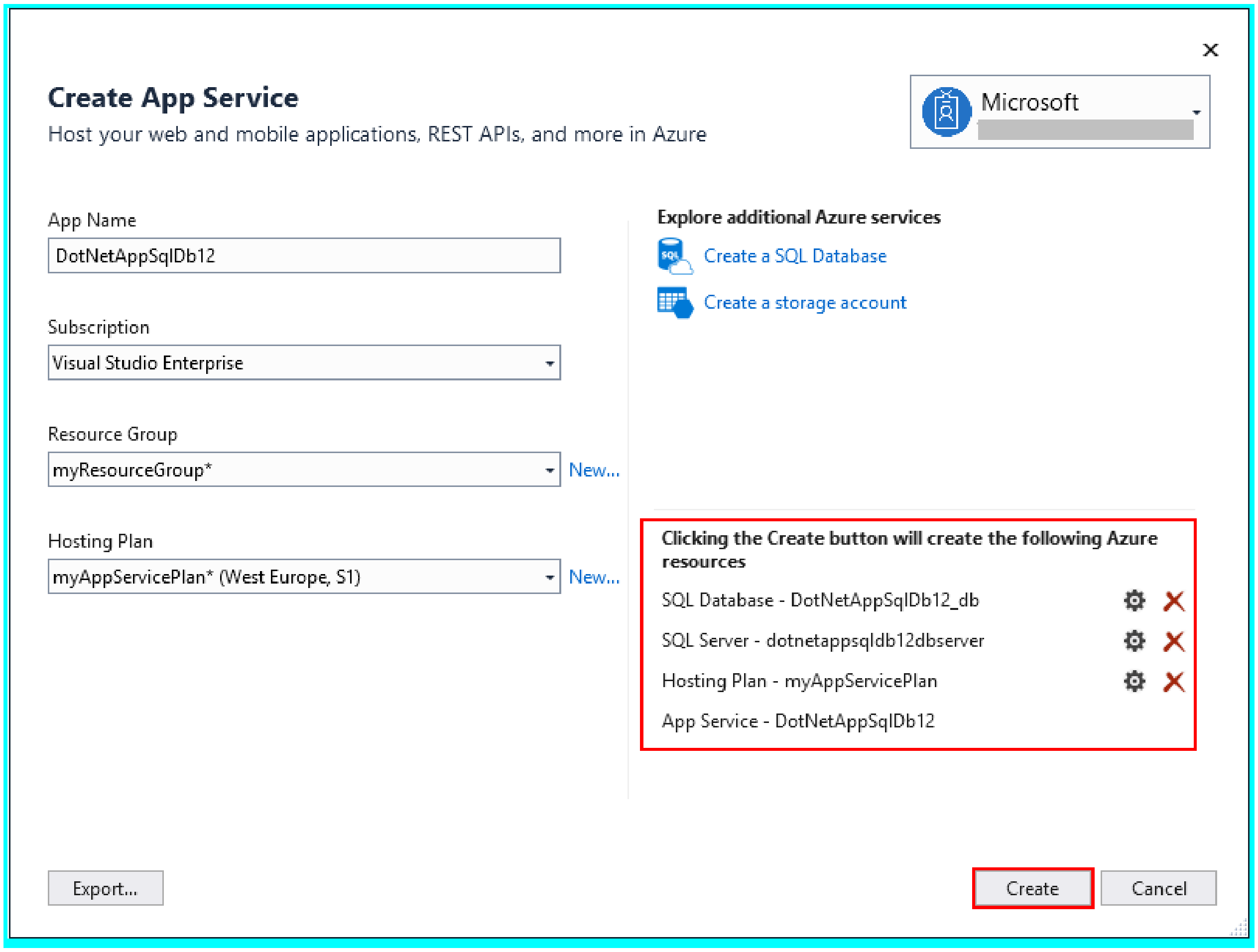
The Create App Service dialog shows the resources you've configured. Click Create.



Create App Service

Host your web and mobile applications, REST APIs, and more in Azure

Microsoft
[redacted]

App Name: DotNetAppSqlDb12

Subscription: Visual Studio Enterprise

Resource Group: myResourceGroup*

Hosting Plan: myAppServicePlan* (West Europe, S1)

Explore additional Azure services

Create a SQL Database

Create a storage account

Clicking the Create button will create the following Azure resources

SQL Database - DotNetAppSqlDb12_db

SQL Server - dotnetappsqldb12dbserver

Hosting Plan - myAppServicePlan

App Service - DotNetAppSqlDb12

Once the wizard finishes creating the Azure resources, it publishes your ASP.NET app to Azure. Your default browser is launched with the URL to the deployed app.

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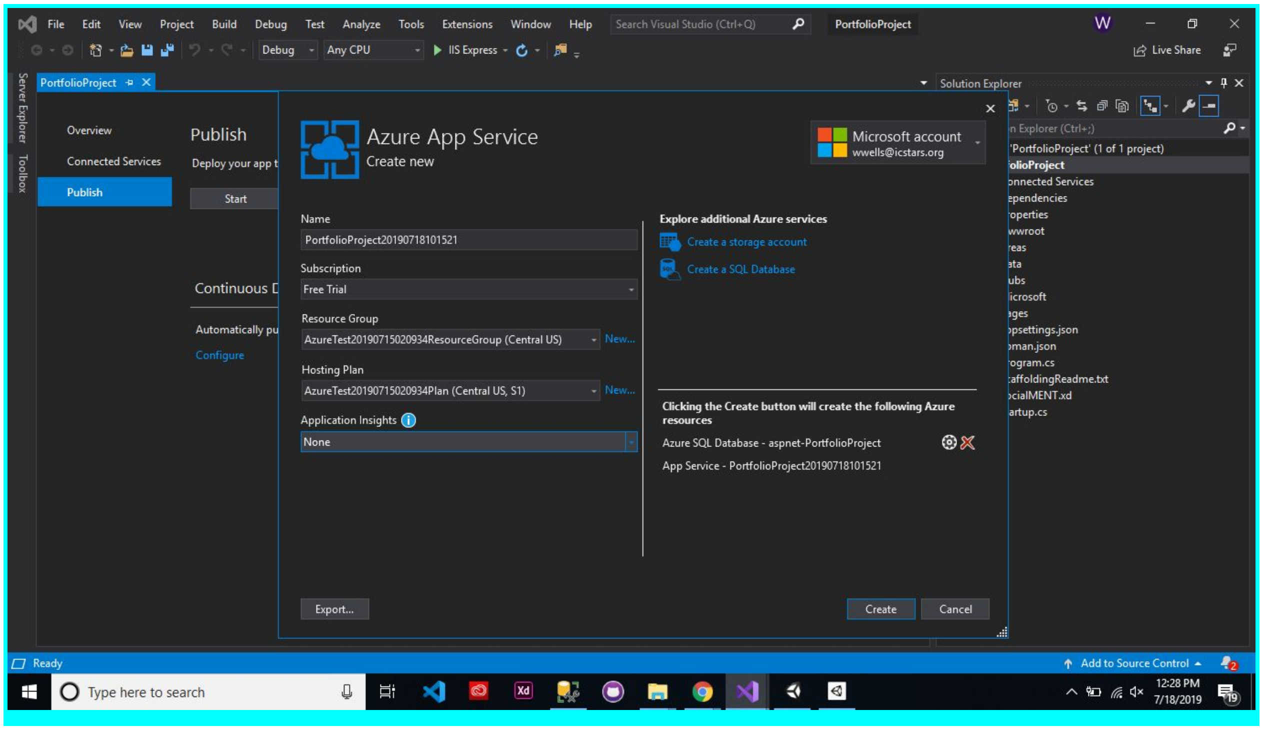
CLICK Create



Azure App Service
Create new

Microsoft account
wwells@icstars.org

Name: PortfolioProject20190718101521

Subscription: Free Trial

Resource Group: AzureTest20190715020934ResourceGroup (Central US) New...

Hosting Plan: AzureTest20190715020934Plan (Central US, S1) New...

Application Insights: None

Explore additional Azure services
- Create a storage account
- Create a SQL Database

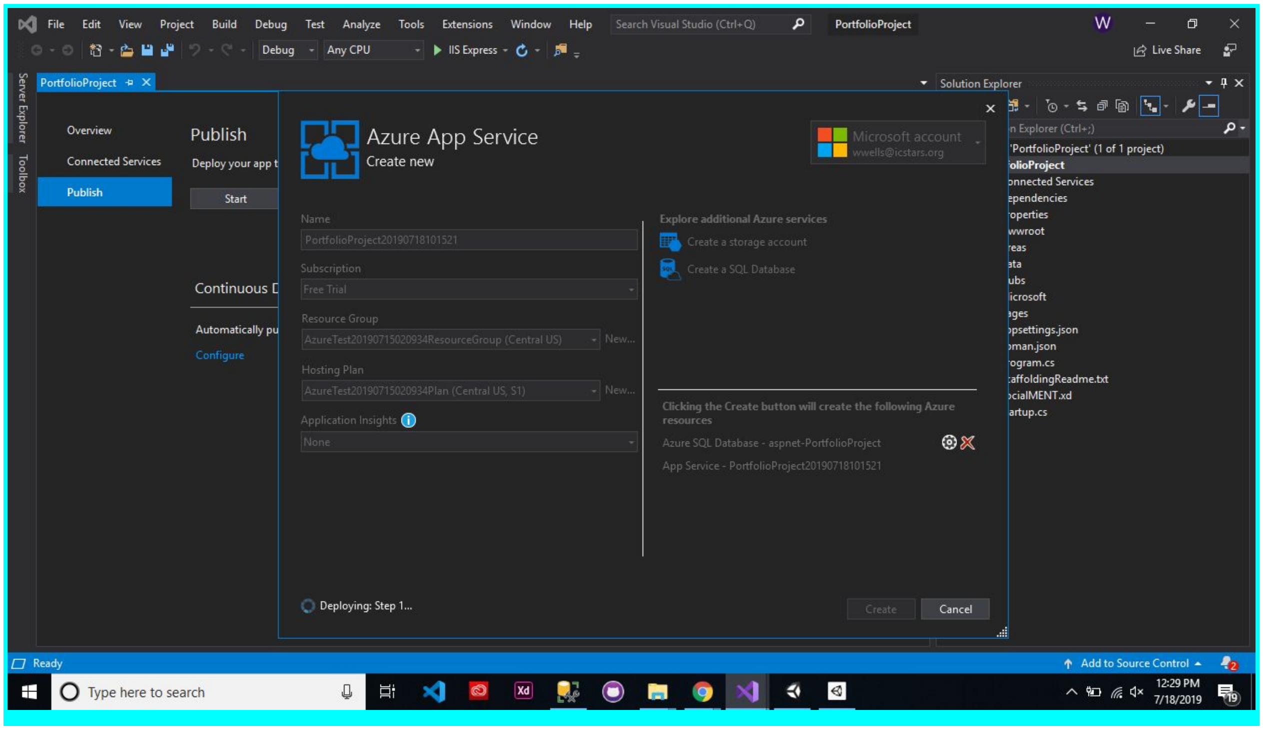
Clicking the Create button will create the following Azure resources

Azure SQL Database - aspnet-PortfolioProject

App Service - PortfolioProject20190718101521

Export... Create Cancel

DEPLOYING………….



Azure App Service
Create new

Microsoft account
wwells@icstars.org

Name: PortfolioProject20190718101521

Subscription: Free Trial

Resource Group: AzureTest20190715020934ResourceGroup (Central US) New...

Hosting Plan: AzureTest20190715020934Plan (Central US, S1) New...

Application Insights: None

Explore additional Azure services
- Create a storage account
- Create a SQL Database

Clicking the Create button will create the following Azure resources

Azure SQL Database - aspnet-PortfolioProject

App Service - PortfolioProject20190718101521

Deploying: Step 1...

Create Cancel

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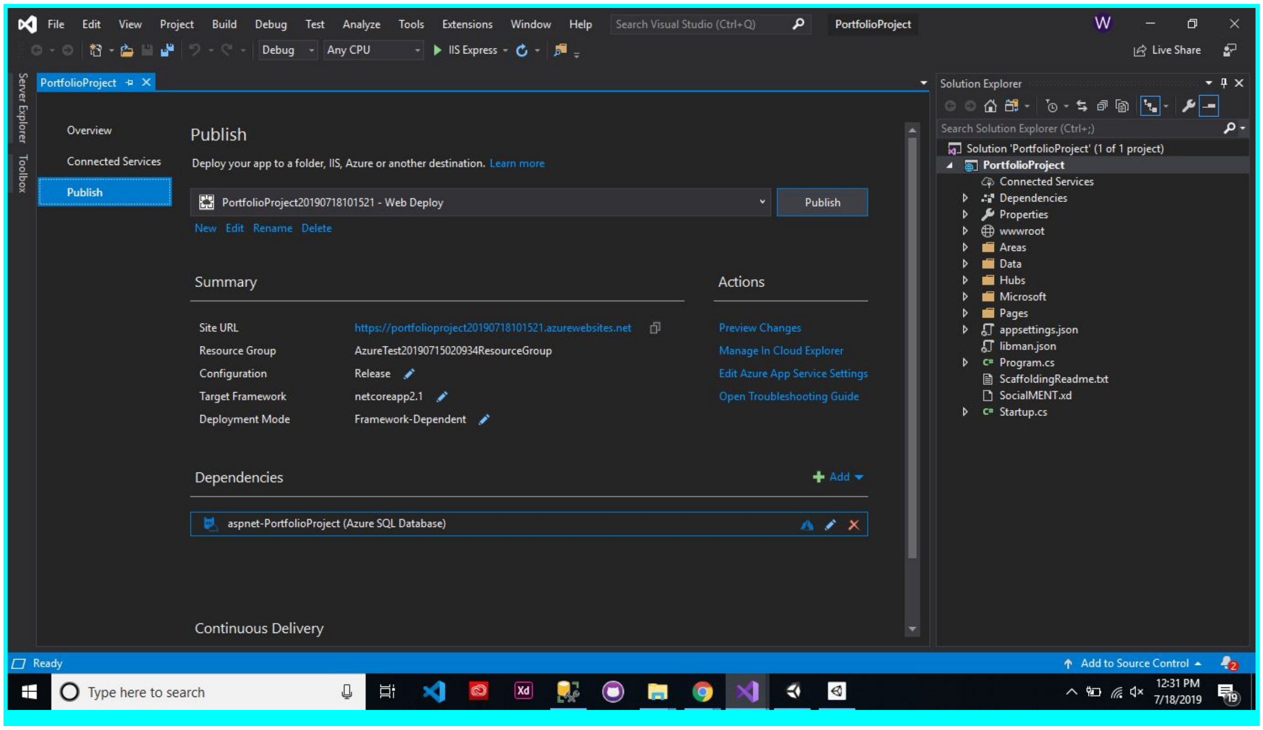
DEPLOY completed



Publish

Deploy your app to a folder, IIS, Azure or another destination. Learn more

PortfolioProject20190718101521 - Web Deploy | Publish

New Edit Rename Delete

Summary

Site URL	https://portfolioproject20190718101521.azurewebsites.net
Resource Group	AzureTest20190715020934ResourceGroup
Configuration	Release
Target Framework	netcoreapp2.1
Deployment Mode	Framework-Dependent

Actions

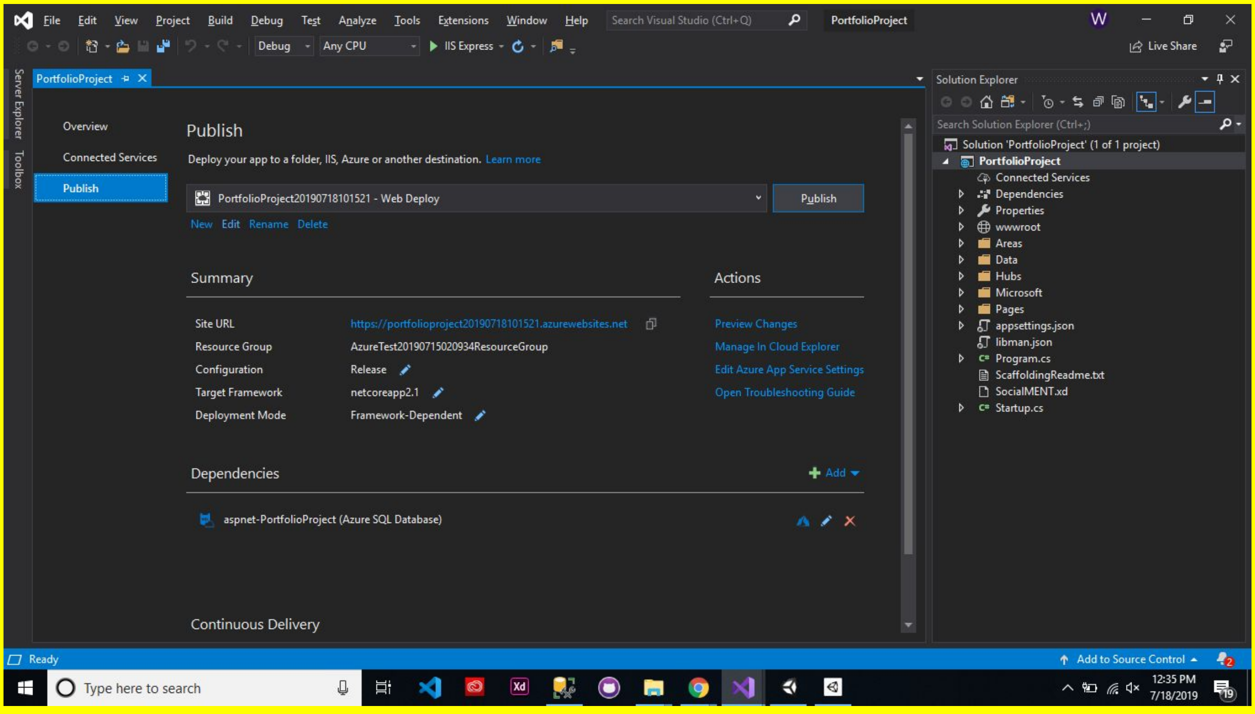
Preview Changes
Manage In Cloud Explorer
Edit Azure App Service Settings
Open Troubleshooting Guide

Dependencies + Add

aspnet-PortfolioProject (Azure SQL Database)

Continuous Delivery

Click Edit



Publish

Deploy your app to a folder, IIS, Azure or another destination. Learn more

PortfolioProject20190718101521 - Web Deploy | Publish

New Edit Rename Delete

Summary

Site URL	https://portfolioproject20190718101521.azurewebsites.net
Resource Group	AzureTest20190715020934ResourceGroup
Configuration	Release
Target Framework	netcoreapp2.1
Deployment Mode	Framework-Dependent

Actions

Preview Changes
Manage In Cloud Explorer
Edit Azure App Service Settings
Open Troubleshooting Guide

Dependencies + Add

aspnet-PortfolioProject (Azure SQL Database)

Continuous Delivery

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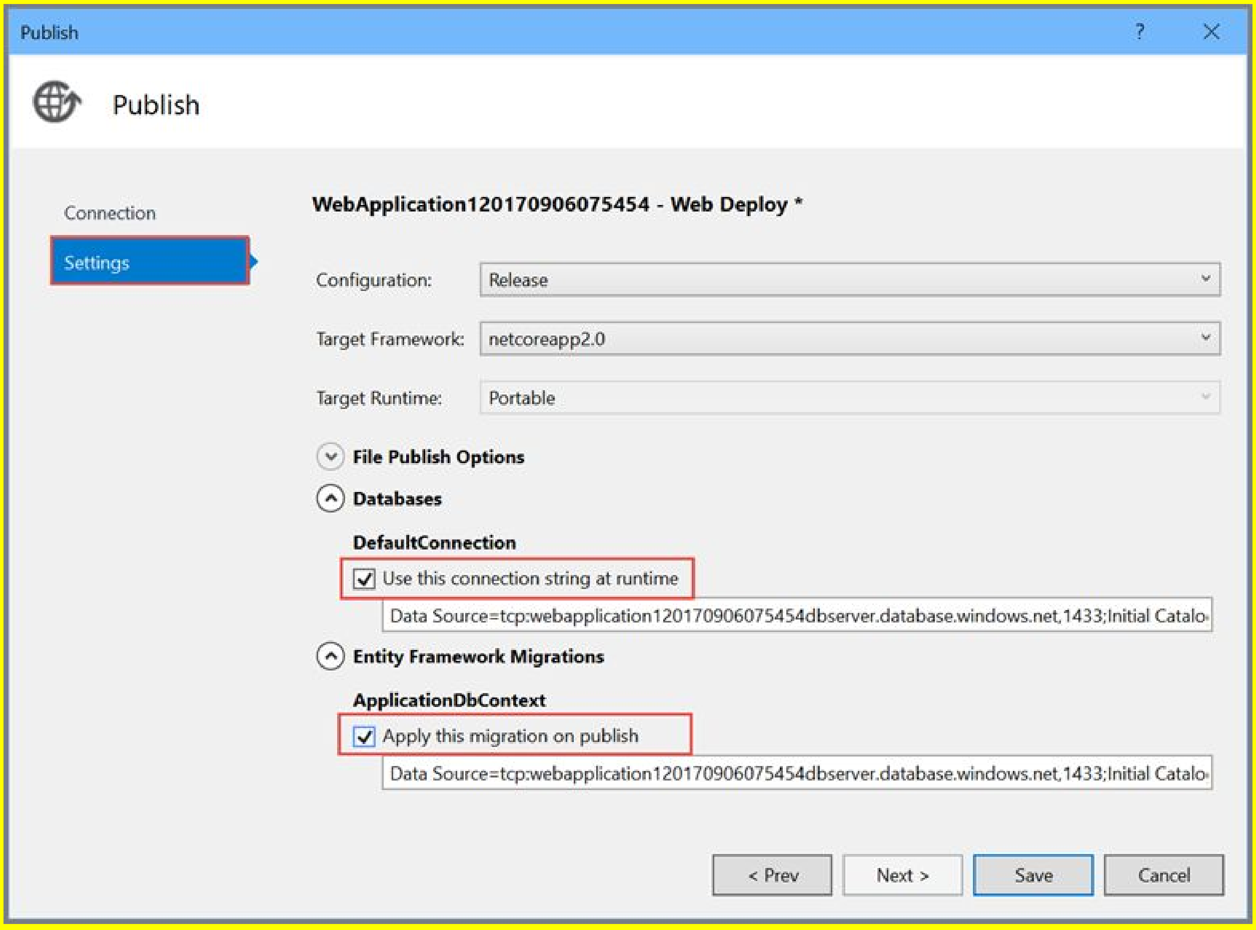
On the Settings page of the Publish dialog:

- **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.**



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

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

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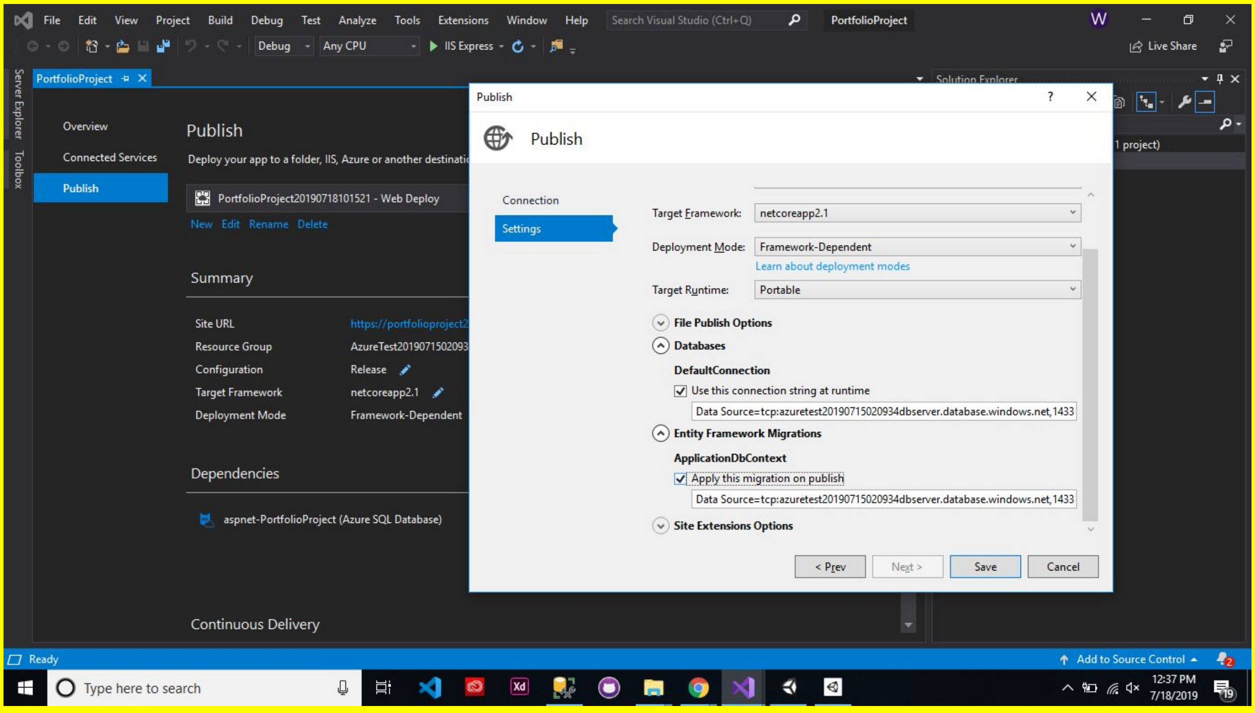
My Screen Example

CLICK Save



Publish

Deploy your app to a folder, IIS, Azure or another destinati

PortfolioProject20190718101521 - Web Deploy

Summary

Site URL	https://portfolioproject2
Resource Group	AzureTest201907150209З
Configuration	Release
Target Framework	netcoreapp2.1
Deployment Mode	Framework-Dependent

Dependencies

aspnet-PortfolioProject (Azure SQL Database)

Continuous Delivery

Publish

Target Framework: netcoreapp2.1

Deployment Mode: Framework-Dependent

Learn about deployment modes

Target Runtime: Portable

File Publish Options

Databases

DefaultConnection

☑ Use this connection string at runtime

Data Source=tcp:azuretest20190715020934dbserver.database.windows.net,1433

Entity Framework Migrations

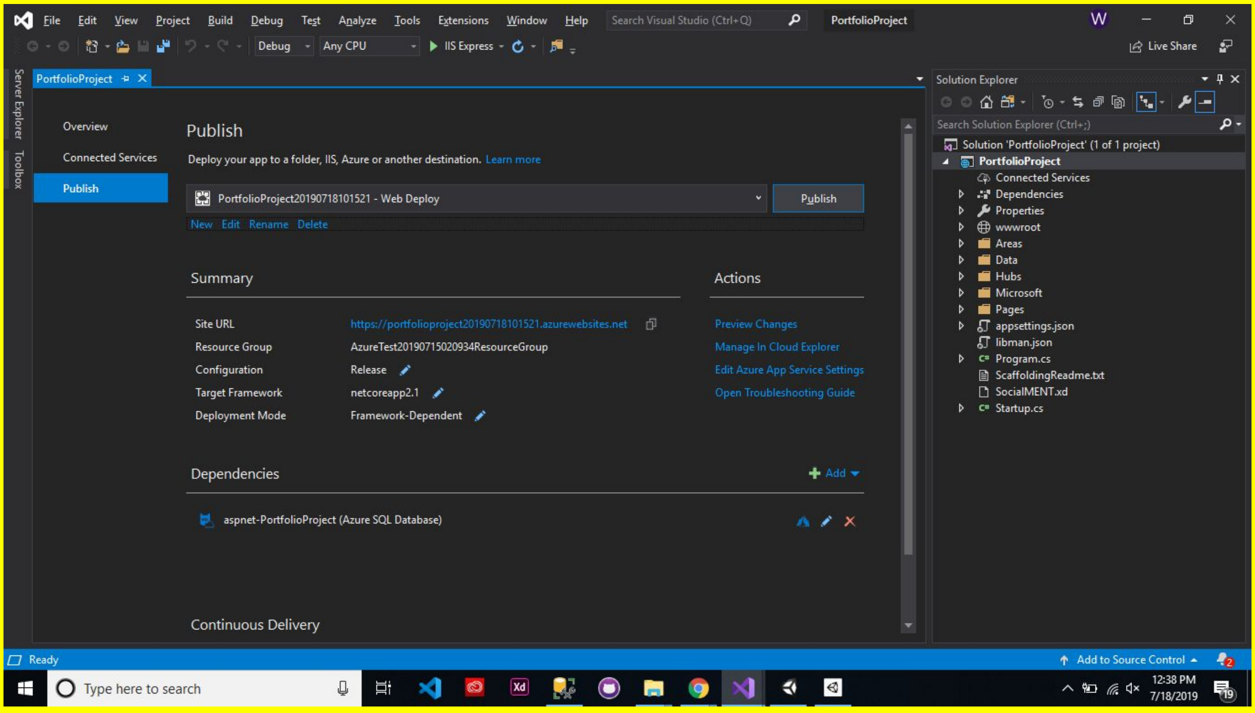
ApplicationDbContext

☑ Apply this migration on publish

Data Source=tcp:azuretest20190715020934dbserver.database.windows.net,1433

Site Extensions Options

12:37 PM
7/18/2019



Publish

Deploy your app to a folder, IIS, Azure or another destination. Learn more

PortfolioProject20190718101521 - Web Deploy

Summary

Site URL	https://portfolioproject20190718101521.azurewebsites.net
Resource Group	AzureTest20190715020934ResourceGroup
Configuration	Release
Target Framework	netcoreapp2.1
Deployment Mode	Framework-Dependent

Actions

- Preview Changes
- Manage In Cloud Explorer
- Edit Azure App Service Settings
- Open Troubleshooting Guide

Dependencies

aspnet-PortfolioProject (Azure SQL Database)

Continuous Delivery

Solution 'PortfolioProject' (1 of 1 project)
- PortfolioProject
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
  - Areas
  - Data
  - Hubs
  - Microsoft
  - Pages
  - appsettings.json
  - libman.json
  - Program.cs
  - ScaffoldingReadme.txt
  - SocialMENT.xd
  - Startup.cs

12:38 PM
7/18/2019

CLICK the Site URL to test

CLICK Publish

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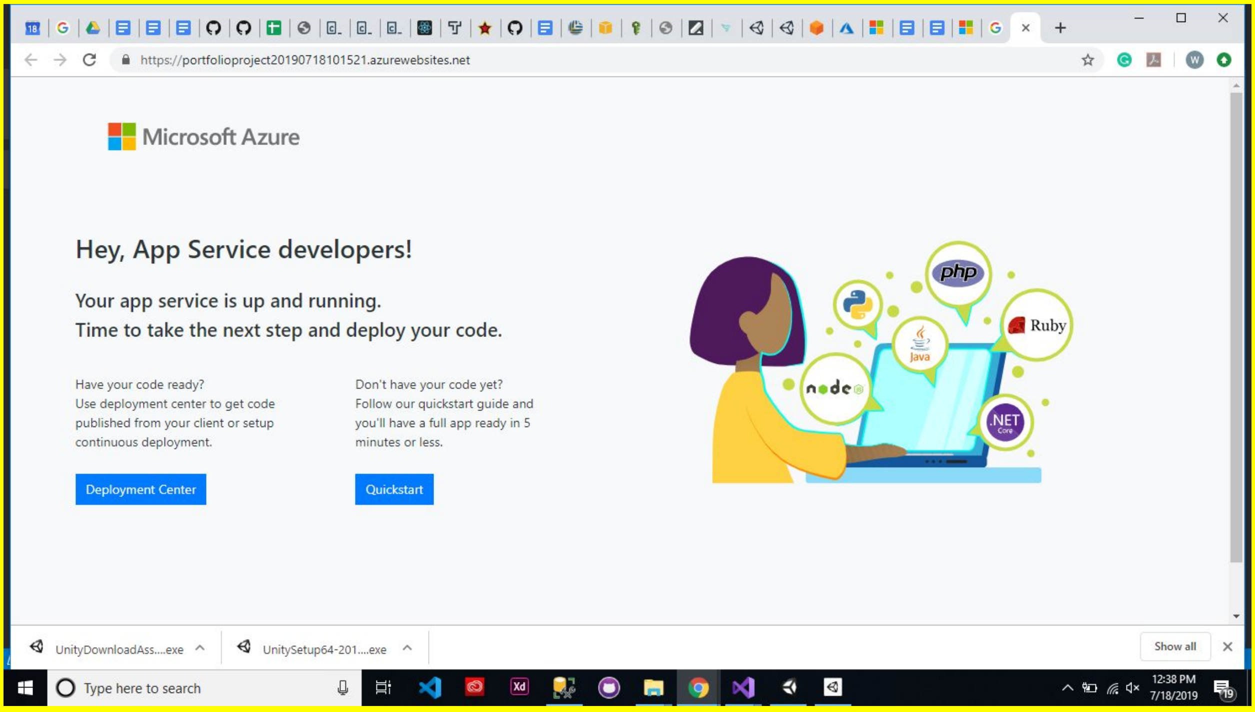
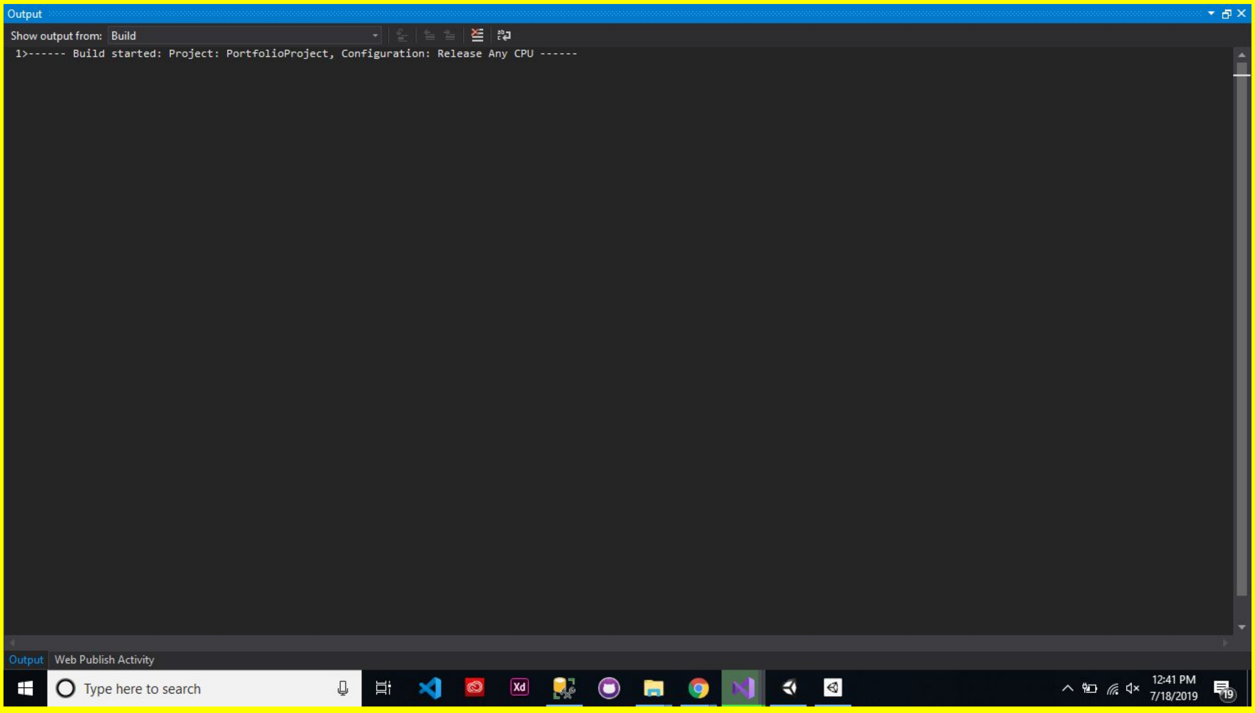


Hey, App Service developers!

Your app service is up and running.
Time to take the next step and deploy your code.

Have your code ready?
Use deployment center to get code published from your client or setup continuous deployment.

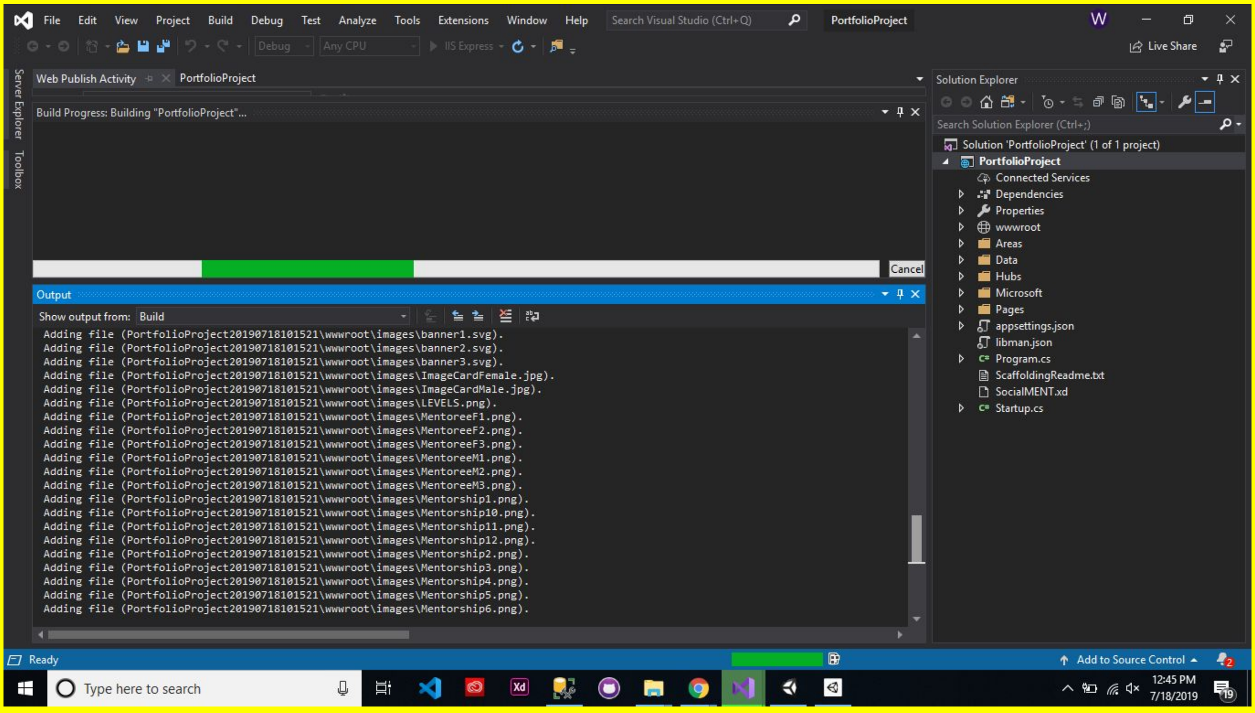
Don't have your code yet?
Follow our quickstart guide and you'll have a full app ready in 5 minutes or less.



```
1>------ Build started: Project: PortfolioProject, Configuration: Release Any CPU ------
```

Wennona Wells
7/18/19

BUILD process takes a while……………………



Build Progress: Building "PortfolioProject"...

Output

Show output from: Build

```
Adding file (PortfolioProject20190718101521\wwwroot\images\banner1.svg).
Adding file (PortfolioProject20190718101521\wwwroot\images\banner2.svg).
Adding file (PortfolioProject20190718101521\wwwroot\images\banner3.svg).
Adding file (PortfolioProject20190718101521\wwwroot\images\ImageCardFemale.jpg).
Adding file (PortfolioProject20190718101521\wwwroot\images\ImageCardMale.jpg).
Adding file (PortfolioProject20190718101521\wwwroot\images\LEVELS.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeF1.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeF2.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeF3.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeM1.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeM2.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\MentoreeM3.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship1.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship10.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship11.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship12.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship2.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship3.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship4.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship5.png).
Adding file (PortfolioProject20190718101521\wwwroot\images\Mentorship6.png).
```