

Publishing your ASP.net Core Razor Page Application to Azure

1. Make sure you sign into the Azure portal using the Azure for Education link. Sign in with your JMU eID: <https://azureforeducation.microsoft.com/devtools>. The link may ask you to sign up with your eID to activate the Education tools / hub.
2. Once signed in, click on the “Sign up now” to register for your Azure Credits

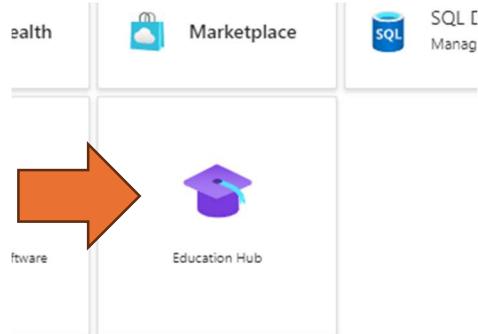
The screenshot shows the 'Overview' tab of the Azure for Education sign-up page. It features two main sections: 'Popular solutions' on the left and 'Free Services' on the right. An orange arrow points to the 'Sign up now' button at the bottom left of the 'Popular solutions' section. Both sections include a list of services with icons and brief descriptions.

Popular solutions		Free Services	
Deploy a Docker container Create simple containers to host apps,	Azure Virtual Machines – Windows Use 750 hours of access to B1s virtual		
Create your first Node.js app Build and deploy web, mobile and API-based	Azure Blob Storage Get 5 GB of locally redundant storage (LRS)		
Create and train a Machine Learning model Train, deploy, automate, manage, and track	Computer Vision Receive 5000 AI transactions to process visual		
Build and deploy your first website Automatically publish to web as your code	Azure App Service Quickly create up to 10 powerful apps with 1		
Explore all		Explore all	

3. You will be taken to a new screen. Click “Start Free” to get started.

The screenshot shows the 'Start Free' landing page. It features a dark header with the text 'Build in the cloud free with Azure for Students' and a sub-instruction 'Use your university or school email to sign up and renew each year you're a student'. Below this is a green 'Start free' button and a white 'Learn about eligibility' button. An orange arrow points to the 'Start free' button. The page then transitions into a light-colored area with two boxes: 'Start with \$100 Azure credit' and 'No credit card required', separated by a plus sign. At the bottom, there's a section titled 'Free services' with the sub-instruction 'Get popular services free while you have your credit.'

4. After this will be a sign up page.
 - a. First you will need to verify your identity by entering a phone number (if not entered) and entering a verification code you will receive.
 - b. Don't forget to enter your address below this.
 - c. Then click "Sign up"
 - d. You might see one more screen where you will accept a license agreement.
5. Once the sign up is completed:
 - a. **Sign OUT of the portal.azure.com site**
 - b. **Then sign back in**
 - c. **Then click on "Education Hub"**



6. If everything worked well, you should see your "Student offer details" section at the top:

The screenshot shows the "Student offer details" section within the Azure portal. It includes the following information:

- Available credits:** \$100 out of \$100 (highlighted with a blue underline)
- Days until credit expires:** 365 (Expires on 04/01/2025)
- April costs:** \$0.00

A large orange arrow points from the left towards the "Available credits" section.

The screenshot shows the "Popular solutions" section within the Azure portal. It includes the following item:

- Deploy a Docker container:** Create simple containers to host apps,

Creating a Resource Group

1. Click on “Resource Groups” then “Create”

The screenshot shows the Azure Resource Groups page. On the left, a sidebar lists various services: Create a resource, Home, Dashboard, All services, Favorites, All resources, Resource groups (which has an orange arrow pointing to it), App Services, Function App, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Microsoft Entra ID, Monitor, and Advisor. The main area is titled "Resource groups" and shows "James Madison University (jmu.edu)". It includes filters for "Subscription equals all", "Location equals all", and "Add filter". A message says "Showing 0 to 0 of 0 records." Below this is a table header with columns "Name ↑↓" and "Subscription ↑↓". In the center, there's a large icon of three interlocking cubes and the text "No resource groups to display. Try changing or clearing your filters." An orange arrow points to the "Create" button at the bottom right.

2. Choose a name for your Resource Group. For example: CapstoneAzureResourceGroup

The screenshot shows the "Create a Resource Group" wizard in the "Basics" step. It has tabs for Basics, Tags, and Review + create. The Basics tab is selected. The "Project details" section shows "Subscription * (Azure for Students)" and "Resource group * (CapstoneAzureResourceGroup)". The "Resource details" section shows "Region * ((US) East US)". The "CapstoneAzureResourceGroup" entry in the "Resource group" dropdown is highlighted with a purple border and a green checkmark.

3. Provide a Key Value pair for your tag. I recommend “Environment” and “Production”

Create a resource group ...

Basics Tags Review + create

Apply tags to your Azure resources to logically organize them by categories. A tag consists of a key (name) and a value. Tag names are case-insensitive and tag values are case-sensitive. [Learn more ↗](#)

Name ⓘ	Value ⓘ	Resource	⋮
Environment	: Production	Resource group	
	:	Resource group	

4. Click on the “Review + Create” tab at the top then click “Create” at the bottom.

Create a resource group ...

Validation passed.

Basics Tags Review + create

Basics

Subscription Azure for Students
Resource group CapstoneAzureResourceGroup
Region East US

Tags

Environment Production

[Create](#)

[< Previous](#)

[Next >](#)

[Download a template for automation](#)

5. Once created, you’ll see your Resource Group listed in the main Resource Groups screen:

All services >

Resource groups

James Madison University (jmu.edu)



+ Create ⚙ Manage view ⏪ Refresh ⏴ Export to CSV ⚡ Open query | ⚡ Assign tags

Filter for any field...

Subscription equals all

Location equals all

+

Add filter

Showing 1 to 1 of 1 records.

No grouping

☰ List view

Name ↑↓

Subscription ↑↓

Location ↑↓

CapstoneAzureResourceGroup

Azure for Students

East US

6.

Setting up your SQL Server Database on Azure:

1. Click on “All Services” then “SQL Databases”

The screenshot shows the Azure All services dashboard. On the left, there is a navigation sidebar with a dark background containing icons for creating a resource, Home, Dashboard, All services (which is highlighted with a blue bar), Favorites, Recents, Recommended for you, Categories, and various service links like AI + machine learning, Analytics, Compute, Containers, Databases, DevOps, General, Hybrid + multicloud, Identity, Microsoft Entra ID, Virtual machines, Resource groups, App Services, Storage accounts, and SQL databases. An orange arrow points from the 'All services' link in the sidebar to the 'SQL databases' icon in the main content area. Another orange arrow points upwards from the 'SQL databases' icon towards the top right corner of the dashboard.

2. Click “Create SQL Database”

The screenshot shows the Azure SQL databases management interface. At the top, it says "SQL databases" and "James Madison University (jmu.edu)". Below that is a toolbar with "Create", "Reservations", "Manage view", "Refresh", "Export to CSV", "Open query", "Assign tags", and "Delete". There are also filter options: "Filter for any field...", "Subscription equals all", "Resource group equals all", and "Location equals all". The main area displays a message: "Showing 0 to 0 of 0 records." with "No grouping" and "List view" dropdowns. A large "Create" button is visible. Below this, a central message says "No SQL databases to display" with the sub-instruction "Try changing or clearing your filters." and a "Create SQL database" button.

3. Choose the Resource Group you created earlier. Choose a name for your Database (This should match what your Capstone Project’s code is expecting. For example, I use

“GROCERY” to test things out from our Lecture project).

Create SQL Database

Microsoft

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure for Students

Resource group * ⓘ

CapstoneAzureResourceGroup

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name *

GROCERY

Server * ⓘ

Select a server

[Create new](#)

✖ The value must not be empty.

Want to use SQL elastic pool? ⓘ

Yes No

Workload environment

Development

Production

i Default settings provided for Development workloads. Configurations can be modified as needed.

Compute + storage * ⓘ

Please select a server first.

[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy * ⓘ

[Review + create](#)

[Next : Networking >](#)

- Click the “Create New” for the “Server” section.
- Choose a public facing name for your database server (use a unique name, possibly including your team name), select “Use SQL Authentication” and choose an admin login and password following the password rules listed. WRITE THESE DOWN

IMMEDIATELY.

All services > Create SQL Database >

Create SQL Database Server

Microsoft



Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name *

drezellcapstoneproject



.database.windows.net

Location *

(US) East US



Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#) using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Authentication method

- Use Microsoft Entra-only authentication
- Use both SQL and Microsoft Entra authentication
- Use SQL authentication

Server admin login *

capstoneadmin



Password *

.....



Confirm password *

.....



Password and confirm password must match.

OK

6. Click the “OK” button when done.
7. You will be taken back to the Database configuration screen. You’ll need to configure settings to keep the costs as low as possible:
 - a. Ensure “Development” is selected.
 - b. For the “Compute + Storage” section, click “Configure Database”

- c. Under “Service Tier” select “DTU -> Basic”. Click “Apply”

Configure ...

 Feedback

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

 SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

Service tier

Basic (For less demanding workloads)

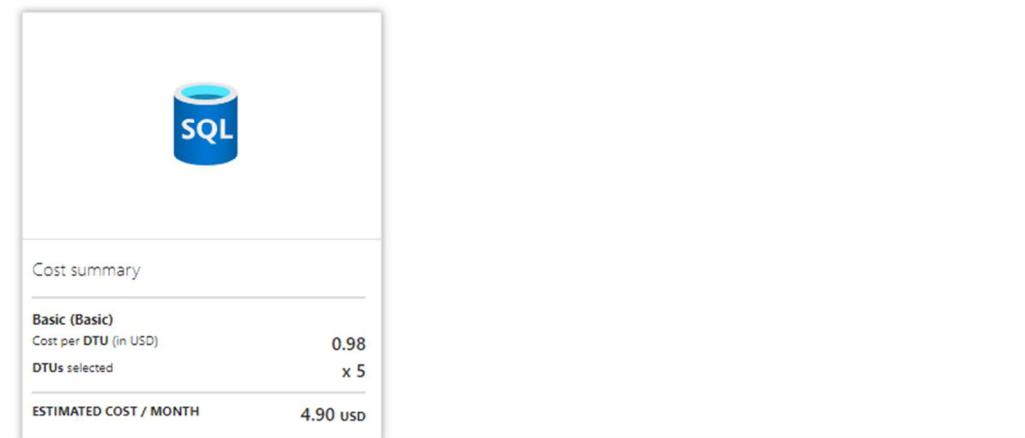
[Compare service tiers](#)

DTUs [Compare DTU options](#)

5 (Basic)

Data max size (GB)

2



Cost summary	
Basic (Basic)	
Cost per DTU (in USD)	0.98
DTUs selected	x 5
ESTIMATED COST / MONTH	4.90 USD

- d. You'll be taken back to the Create SQL Database screen. Choose “Locally-Redundant” for the “Backup Storage Redundancy” then click the “**Next: Networking >**” Button.
- e. Select “Public Endpoint”
- f. Select “Yes” for “Allow Azure services and resources to access this server”

- g. Select “Yes” for “Add current client IP Address”

Create SQL Database ...

Microsoft

Basics Networking Security Additional settings Tags Review + create

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'drezellcapstoneproject' and all databases it manages. [Learn more](#)

Network connectivity

Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. [Learn more](#)

Connectivity method * ⓘ

- No access
 Public endpoint
 Private endpoint

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server *

No Yes

Add current client IP address *

No Yes

Connection policy

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy ⓘ

- Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure
 Proxy - All connections are proxied via the Azure SQL Database gateways
 Redirect - Clients establish connections directly to the node hosting the database

- h. Click the “Next: Security >” button
- i. Under “Security”, **no changes are needed**. Click the “Next: Additional Settings >” button.
- j. Under “Additional Settings”, **no changes are needed**. Click the “Next: Tags >” Button.

- k. Under “Tags” use “Environment” and “Production” once again. Then click the “Review + Create >” button.

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Tags are name/value pairs that enable you to categorize and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
Environment	: Production	2 selected ▼ trash
	:	2 selected ▼

- l. Review all the information on this summary screen then click “Create”
m. You’ll see a “Deployment in Progress” screen while Azure works to create your Database Server and Database in your Resource Group

The screenshot shows the Azure Deployment 'Deployment' page for a resource named 'Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908ac...'. The top navigation bar includes 'Search', 'Delete', 'Cancel', 'Redeploy', 'Download', and 'Refresh' buttons. On the left, there's a sidebar with 'Overview', 'Inputs', 'Outputs', and 'Template' sections. The main content area displays deployment details:

- Deployment is in progress**
- Deployment name :** Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908acac9
- Subscription :** Azure for Students
- Resource group :** CapstoneAzureResourceGroup
- Start time :** 4/1/2024, 1:28:08 PM
- Correlation ID :** 204c5e3c-2d26-4677-bcdc-33c6d0bd442f

Below this, a 'Deployment details' section is expanded, showing a table of resources:

Resource	Type	Status	Operat
drezelcapstone...	SQL server	Accepted	Operat

At the bottom, there are links for 'Give feedback' and 'Tell us about your experience with deployment'.

- n. Once done you should see “Deployment succeeded!” Click “Go to Resource” to view your DB server instance.

The screenshot shows a deployment summary for a database named 'abase.newDatabaseNewServer_bd'. At the top right, a green checkmark icon indicates 'Deployment succeeded'. Below it, a message states: "'Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908acac9' to resource group 'CapstoneAzureResourceGroup' was successful." There are buttons for 'Delete', 'Cancel', 'Redeploy', 'Download', 'Go to resource' (which is highlighted in blue), and 'Pin to dashboard'. A large green checkmark icon says 'Your deployment is complete'. Deployment details are listed: Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908acac9; Subscription: Azure for Students; Resource group: CapstoneAzureResourceGroup; Start time: 4/1/2024, 1:28:08 PM; Correlation ID: 204c5e3c-2d26-4677-bcdc-33c6d0bd442f. Below this, there are sections for 'Deployment details' and 'Next steps', with a prominent blue 'Go to resource' button.

Deployment succeeded

Deployment
'Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908acac9' to resource group 'CapstoneAzureResourceGroup' was successful.

Go to resource Pin to dashboard

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_bd7648e69f164908acac9
Subscription : Azure for Students
Resource group : CapstoneAzureResourceGroup
Start time : 4/1/2024, 1:28:08 PM
Correlation ID : 204c5e3c-2d26-4677-bcdc-33c6d0bd442f

> Deployment details

▽ Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

- o. On the resource page, click “Show database connection strings” to view the custom address and connection string for your DB.

The screenshot shows the properties of a SQL database named 'GROCERY'. The left sidebar lists navigation options: Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Settings, Compute + storage, Connection strings, Properties, Locks, Data management, Replicas, and Sync to other databases. The main pane displays the 'Essentials' section with the following details:

Resource group (move)	Server name
CapstoneAzureResourceGroup	drezellcapstoneproject.database.windows.net
Status	Elastic pool
Online	No elastic pool
Location	Connection strings
East US	Show database connection strings
Subscription (move)	Pricing tier
Azure for Students	Basic
Subscription ID	Earliest restore point
649e20b6-eb7e-465d-97a0-28ff9f3e580a	No restore point available

Tags (edit): Environment : Production

Getting started Monitoring Properties Features Notifications (0) Integrations ...

- p. The ADO.net Connection String is used for our Visual Studio projects in ASP.net Core

ADO.NET JDBC ODBC PHP Go

ADO.NET (Microsoft Entra passwordless authentication)

[Microsoft.Data.SqlClient Quickstart ↗](#)

[Entity Framework Core Quickstart ↗](#)

```
Server=tcp:drezellcapstoneproject.database.windows.net,1433;Initial Catalog=GROCERY;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;Authentication="Active Directory Default";
```



ADO.NET (SQL authentication)

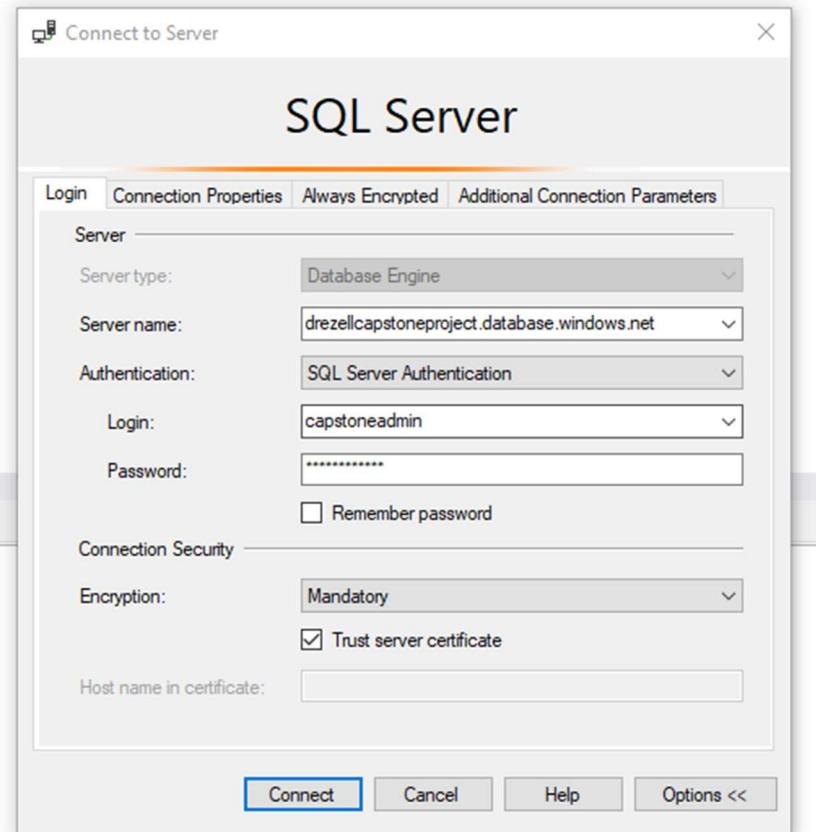
```
Server=tcp:drezellcapstoneproject.database.windows.net,1433;Initial Catalog=GROCERY;Persist Security Info=False;User ID=capstoneadmin;Password={your_password};MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;
```



[Download ADO.NET driver for SQL server ↗](#)

Notice that the connection string is incomplete: you'll have to add in the password.

8. You can now connect to the DB from SQL Server Management Studio, create your tables and insert your test data. **Notice the actual address extracted from the automated connection string starts after the “tcp:” part.**



9. You should see the connection to the Azure SQL Server DB in SQL Server Management Studio like so. You can now run your queries and create your tables.

The screenshot shows the SQL Server Management Studio interface. On the left, the Object Explorer pane displays a tree structure for a database named 'drezellcapstoneproject.database.windows.net'. Under 'Databases', there is a 'System Databases' node and a 'GROCERY' node. Under 'GROCERY', there are 'Tables', 'Database Diagrams', and several system table nodes like 'System Tables', 'External Tables', 'Graph Tables', and 'dbo.Product'. The 'dbo.Product' node has sub-items for 'Columns', 'Keys', 'Constraints', 'Triggers', 'Indexes', and 'Statistics'. On the right, the main window shows a SQL query editor with the following script:

```
--For the Grocery Database
CREATE TABLE Product(
    ProductID int IDENTITY(1,1) PRIMARY KEY,
    ProductName nvarchar(50),
    ProductCost float,
    ProductDescription nvarchar(200)
);
--Insert business appropriate test data into the Product table
insert into Product (ProductName,ProductCost,ProductDescription) VALUES
('Milk',10.20,'2% Milk');
insert into Product (ProductName,ProductCost,ProductDescription) VALUES
('Chips',3.99,'Sour Cream');
insert into Product (ProductName,ProductCost,ProductDescription) VALUES
('Cookies',1.99,'Peanut Butter');
insert into Product (ProductName,ProductCost,ProductDescription) VALUES
('Cabbage',2.99,'Garden Fresh');
```

10. In Visual Studio, you can change the connection string in your DBClass like so:

```
// Connection String - How to find and connect to DB
//private static readonly String? GroceryDBConnectionString =
//    "Server=localhost;Database=Grocery;Trusted_Connection=True";
private static readonly String? GroceryDBConnectionString =
"Server=drezellcapstoneproject.database.windows.net,1433;" +
    "Database=GROCERY;" +
    "User Id=capstoneadmin;" +
    "Password=YOURPASSWORD;" +
    "Encrypt=True;" +
    "TrustServerCertificate=True";
```

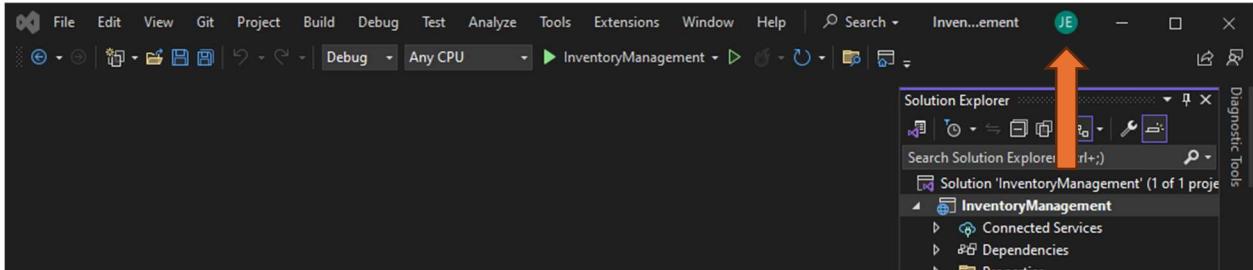
Notice that the connection string is different. Notice the alternative port number of 1433. You can comment out and in the “localhost” between testing and publishing to Azure.

Publishing your Visual Studio Project to Azure in Visual Studio:

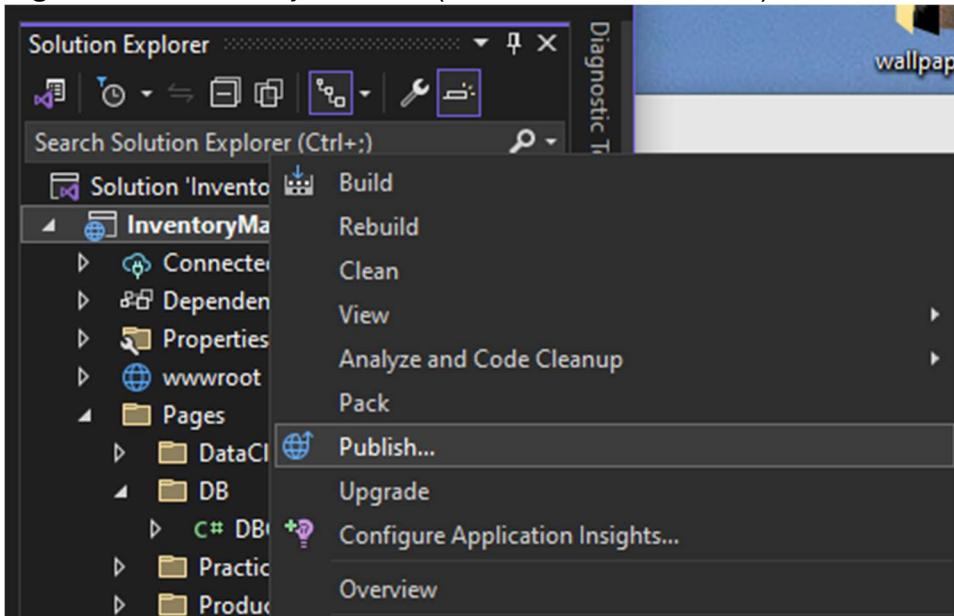
There should be no syntax errors in your code at this point prior to publishing!!!

Resolve these before you publish your project!

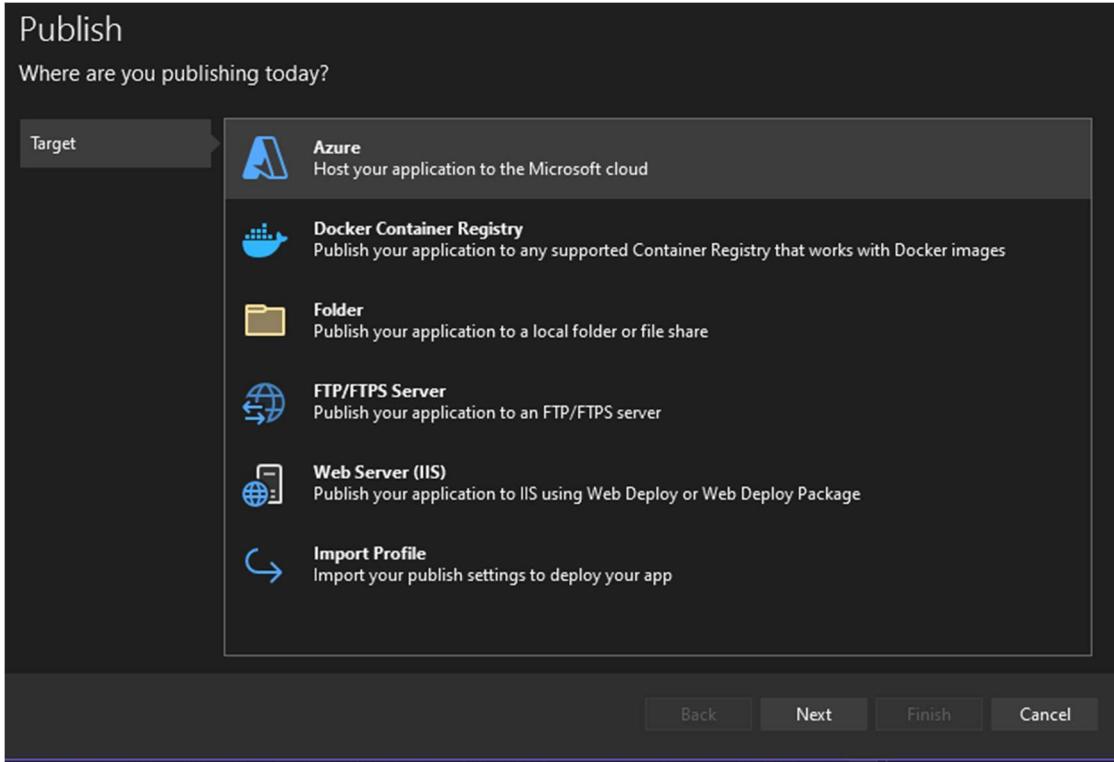
1. Open up Visual Studio. Make sure you are signed in with your JMU eID:



2. Right click on the Project name (NOT the solution name) and click "Publish"



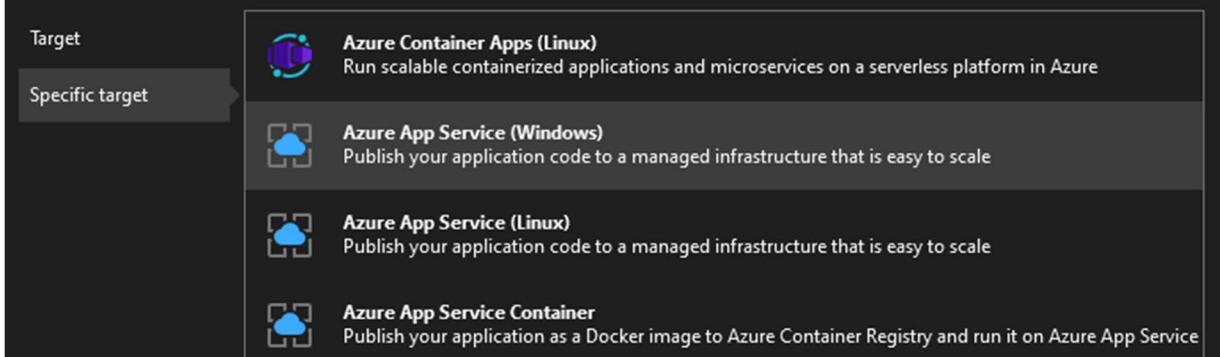
3. Click "Azure" and click "Next"



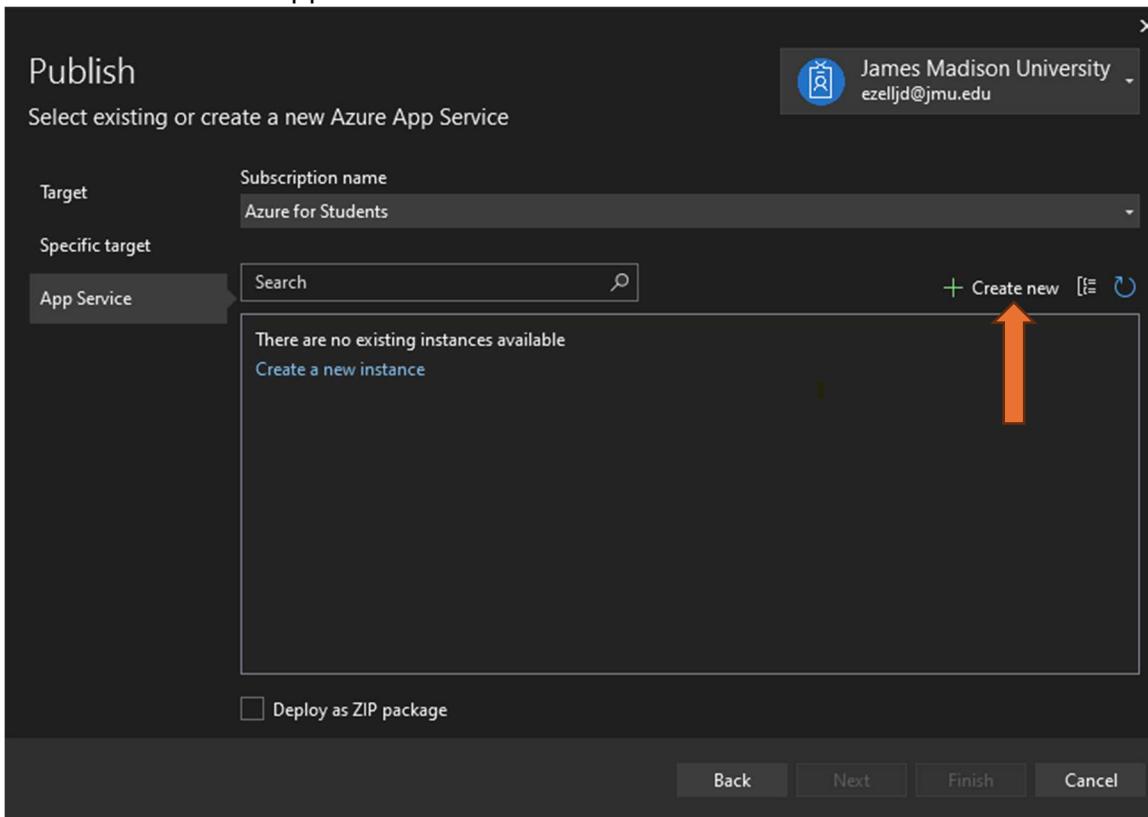
4. Click “Azure App Service (Windows) and click next.

Publish

Which Azure service would you like to use to host your application?

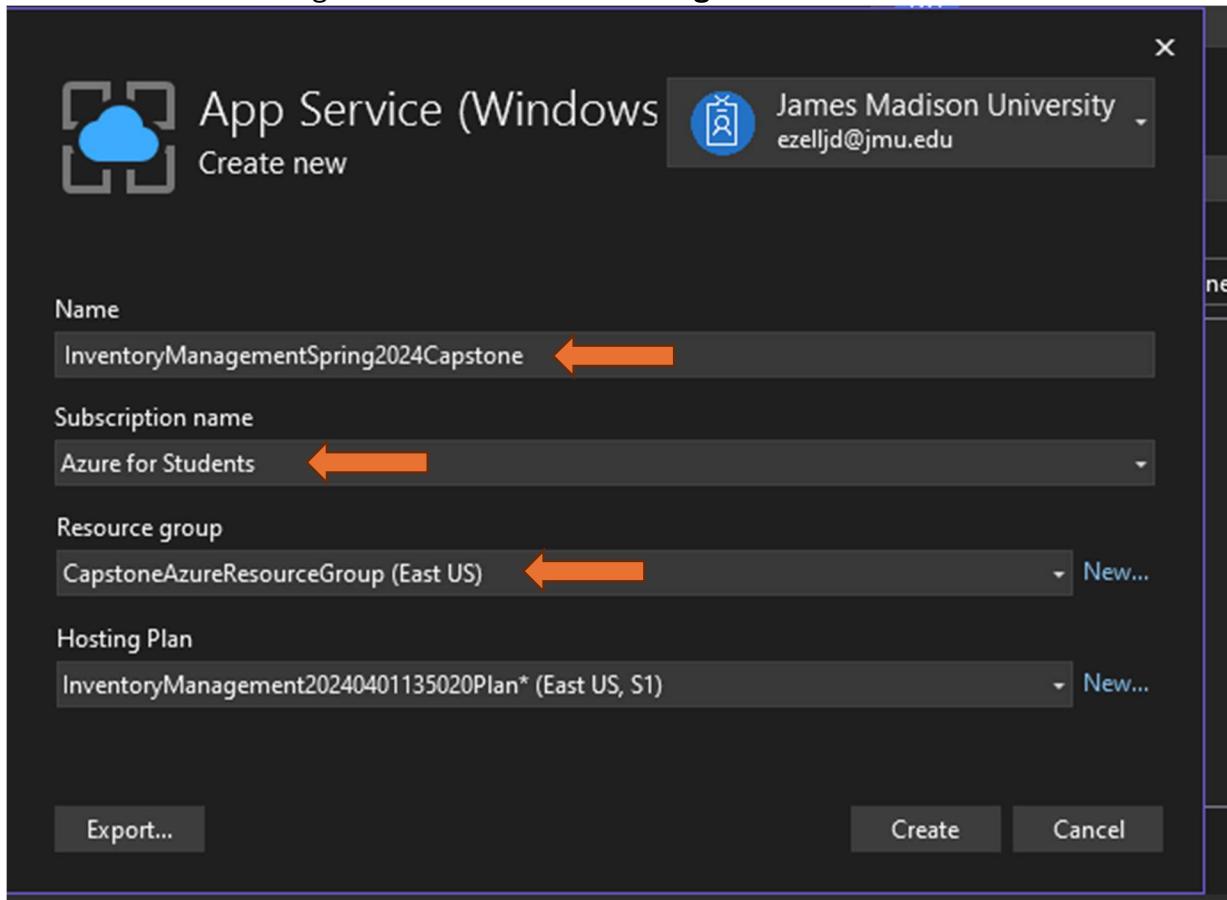


5. Make sure your account shows in the top right. Make sure your “Azure for Students” subscription shows in the “Subscription Name” area. Click the “Create New” button to create a new Azure Application Instance.

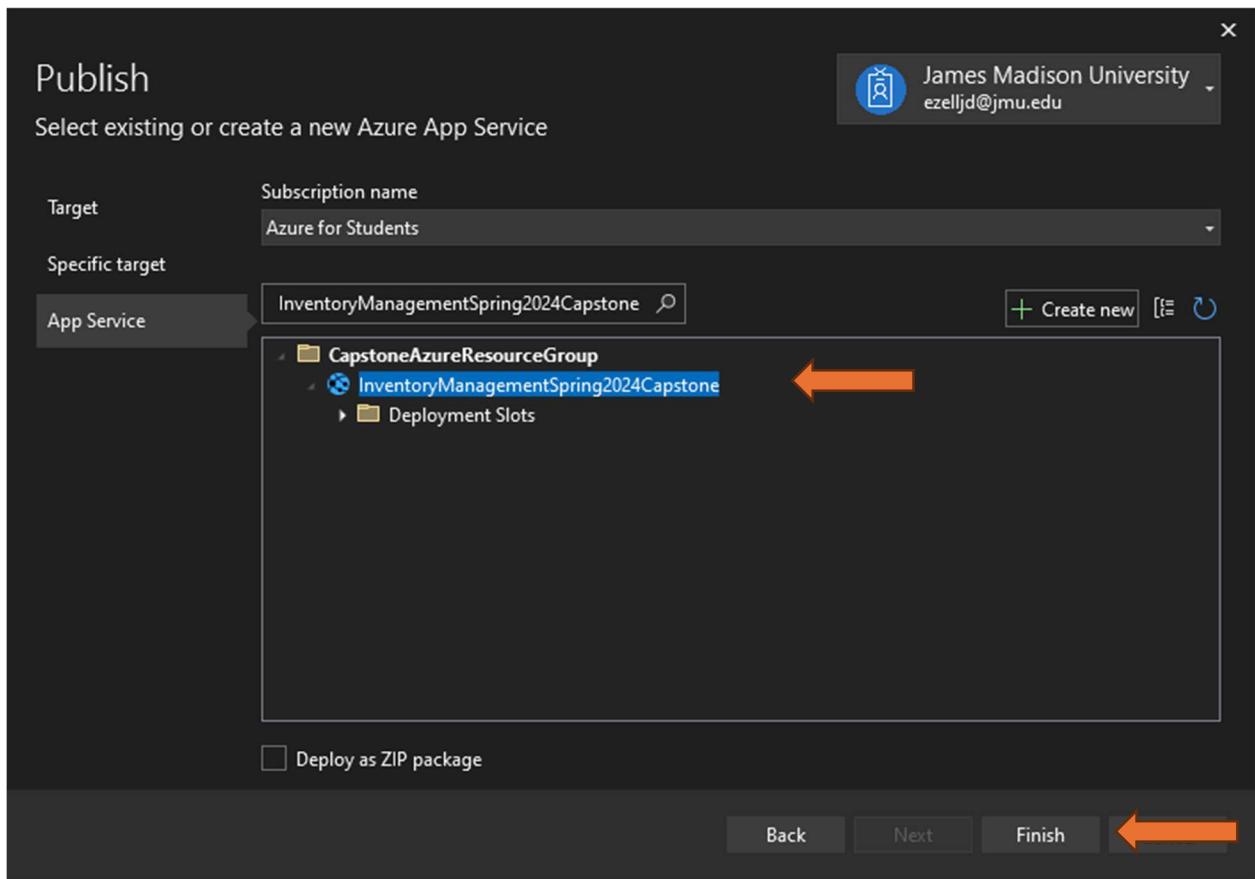


6. You can give your AppService a unique name. Ensure the Subscription shows “Azure for Students” and that the Resource Group is the same one you created earlier in the

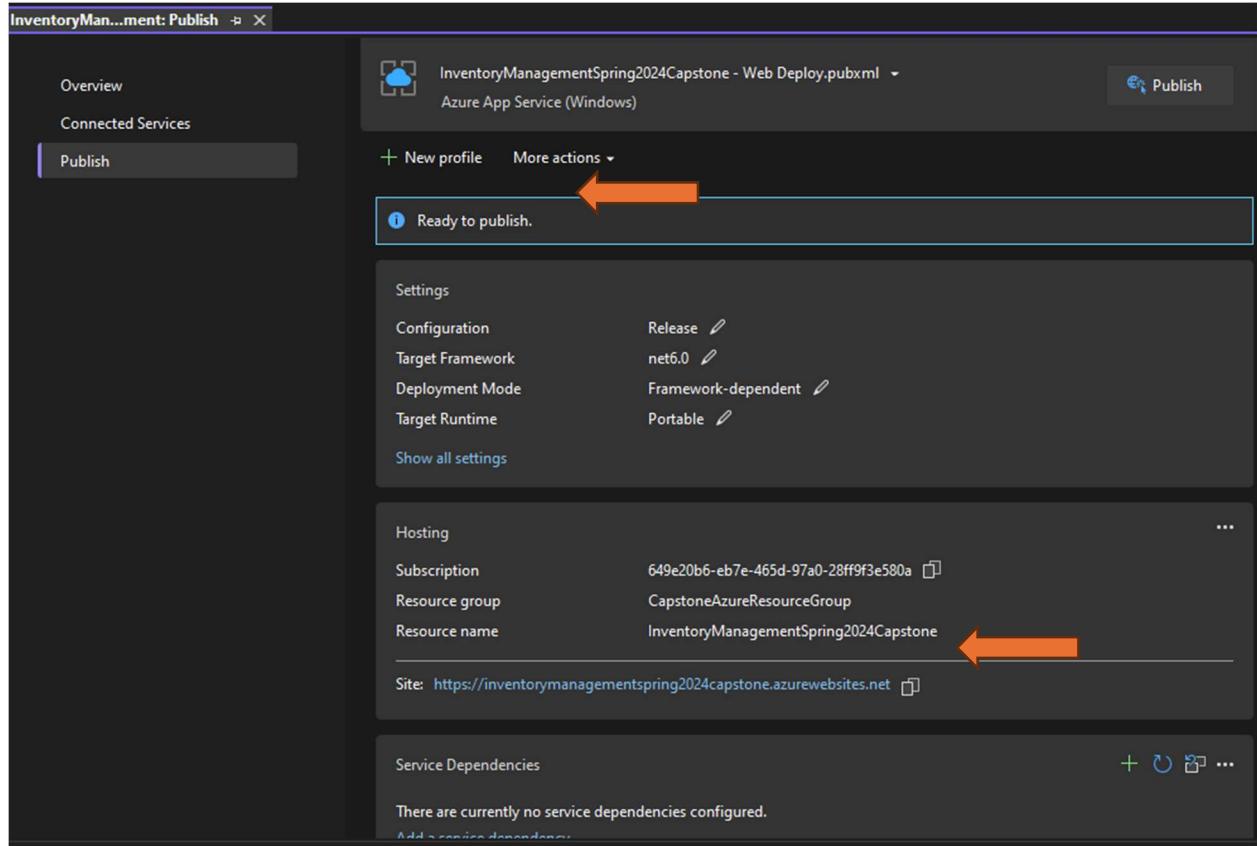
document. The Hosting Plan name needs **no change**.



7. Click the “Create” Button. You will see some status messages at the bottom of the box, particularly “Creating: App Service...”
8. You’ll be taken back to the “Publish” screen. Here your app service will be selected. Click “Finish”.

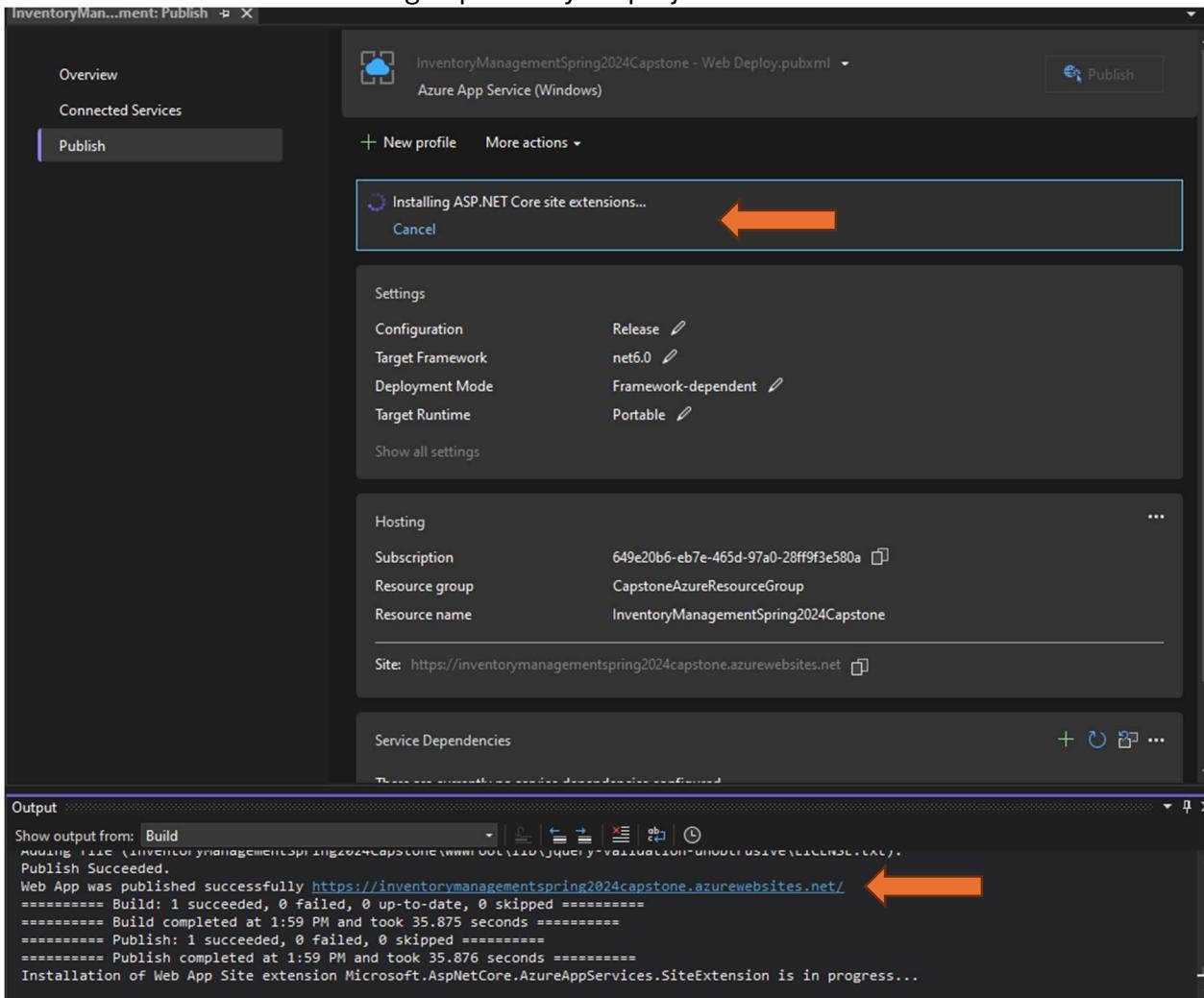


9. You'll see a "Publish Profile Creation Progress" screen, as it successfully creates a local file. Click "Close"
10. You'll be taken back to the Publish tab in Visual Studio. The message "Ready to Publish" should be displayed. Note the URL for the site once it is published (**it has not been published yet**)

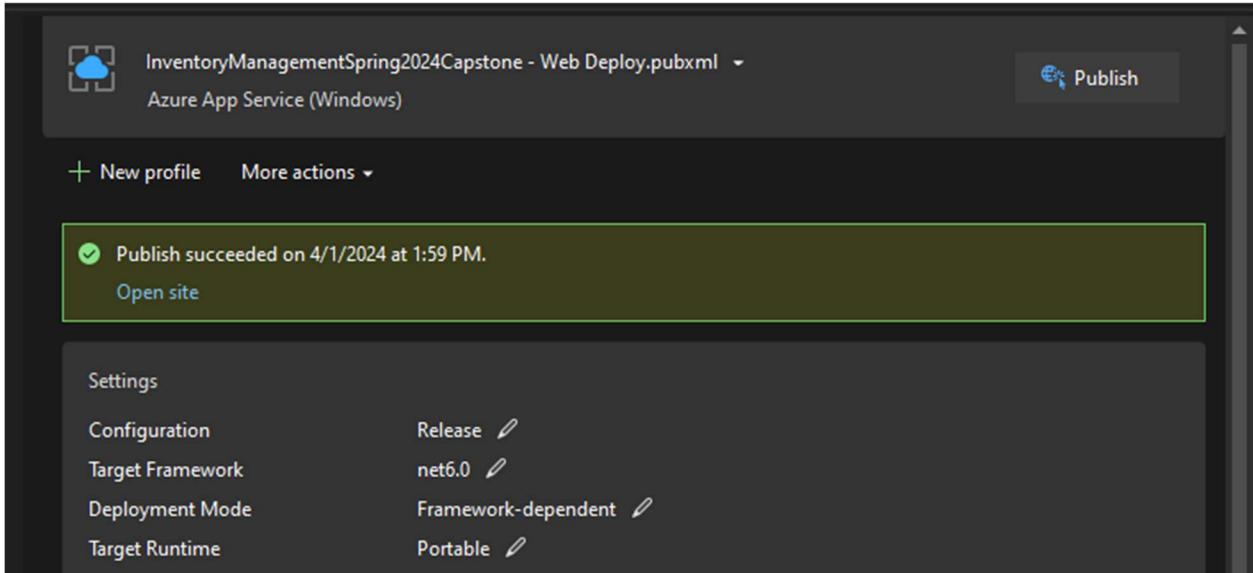


11. Click the "Publish" button at the top.
12. Visual Studio will perform a check to make sure your project will run successfully. **There should be no syntax errors at this point prior to publishing!!! Resolve these before you publish your project!**

13. You'll see Visual Studio working to publish your project.



14. When done, you should see a “Publish Succeeded” and your site will open in the web browser automatically:



15. Notice the URL Listed in the tab AND in the output. This is the URL you can send to the Client and any stakeholders to demonstrate the system.

The screenshot shows the Azure portal's deployment summary for a Resource Group named 'CapstoneAzureResourceGroup'. It lists the following details:

- Subscription: 649e20b6-eb7e-465d-97a0-28ff9f3e580a
- Resource group: CapstoneAzureResourceGroup
- Resource name: InventoryManagementSpring2024Capstone

Below this, it displays the site URL: <https://inventorymanagementspring2024capstone.azurewebsites.net>.

16. Your Web Application should launch automatically in the browser after publication:

The screenshot shows a web browser window with the title 'Product Listing - InventoryMan' and the URL 'inventorymanagementspring2024capstone.azurewebsites.net/Products'. The page is titled 'Product View' and displays a table of products:

Product ID:	Product Name:	Product Cost:	Product Description:	Action
1	Milk	10.2	2% Milk	Edit ->
2	Chips	3.99	Sour Cream	Edit ->
3	Cookies	1.99	Peanut Butter	Edit ->
4	Cabbage	2.99	Garden Fresh	Edit ->

At the bottom left, there is a button labeled 'Add New Product ->'. A large orange arrow points upwards from the table towards the browser's address bar, indicating the successful publication of the application.

Managing your Services under the Resource Group on Azure:

1. Once you log into portal.azure.com you can click on “All Services” then click on the Resource Group you created to see all the deployed services (SQL Server and the

Azure Web Application):

The screenshot shows the Azure portal interface for the 'CapstoneAzureResourceGroup'. The left sidebar lists various service categories like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Deployments, Security, Deployment stacks, Policies, Properties, Locks, and Cost Management. The main pane displays the 'Essentials' section with details such as Subscription (move) to 'Azure for Students', Subscription ID '649e20b6-eb7e-465d-97a0-28ff9f3e580a', Tags 'Environment: Production', Deployments '2 Succeeded', Location 'East US', and 4 resources listed in a table.

Name	Type	Location	Actions
drezellcapstoneproject	SQL server	East US	...
GROCERY (drezellcapstoneproject/GROCERY)	SQL database	East US	...
InventoryManagement20240401135020Plan	App Service plan	East US	...
InventoryManagementSpring2024Capstone	App Service	East US	...

2. If you click on the “App Service” for your published web application you will see the URL for the site:

The screenshot shows the Azure portal interface for the 'InventoryManagementSpring2024Capstone' web app. The left sidebar includes sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment slots, Deployment Center, Configuration, Authentication, Application Insights, Identity, Backups, and Custom domains. The main pane displays the 'Essentials' section with details like Resource group, Status (Running), Location (East US), Subscription (move), Tags, and Properties. A large orange arrow points upwards from the 'Custom domains' section towards the 'Default domain' value 'inventorymanagementspring2024capstone.azurewebsites.net'.

Properties	Value
Name	InventoryManagementSpring2024Capstone
Publishing model	Code
Runtime Stack	Dotnetcore

Domains	Value
Default domain	inventorymanagementspring2024capstone.azurewebsites.net
Custom domain	Add custom domain

3. When the Cloud version of the Web Application is not in use, you can put it into a “Stopped” status by clicking “Stop” and answering “Yes” to “Are you sure?”

The screenshot shows the Azure portal interface for a 'Web App' named 'InventoryManagementSpring2024Capstone'. On the left, there's a sidebar with various navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, and Events (preview). The main area displays the app's status as 'Running', location as 'East US', subscription as 'Azure for Students', and a unique Subscription ID. A prominent orange arrow points upwards from the bottom of the screenshot towards the 'Stop' button in the top navigation bar. A second orange arrow points upwards from the bottom towards the 'Yes' button in the confirmation dialog box.

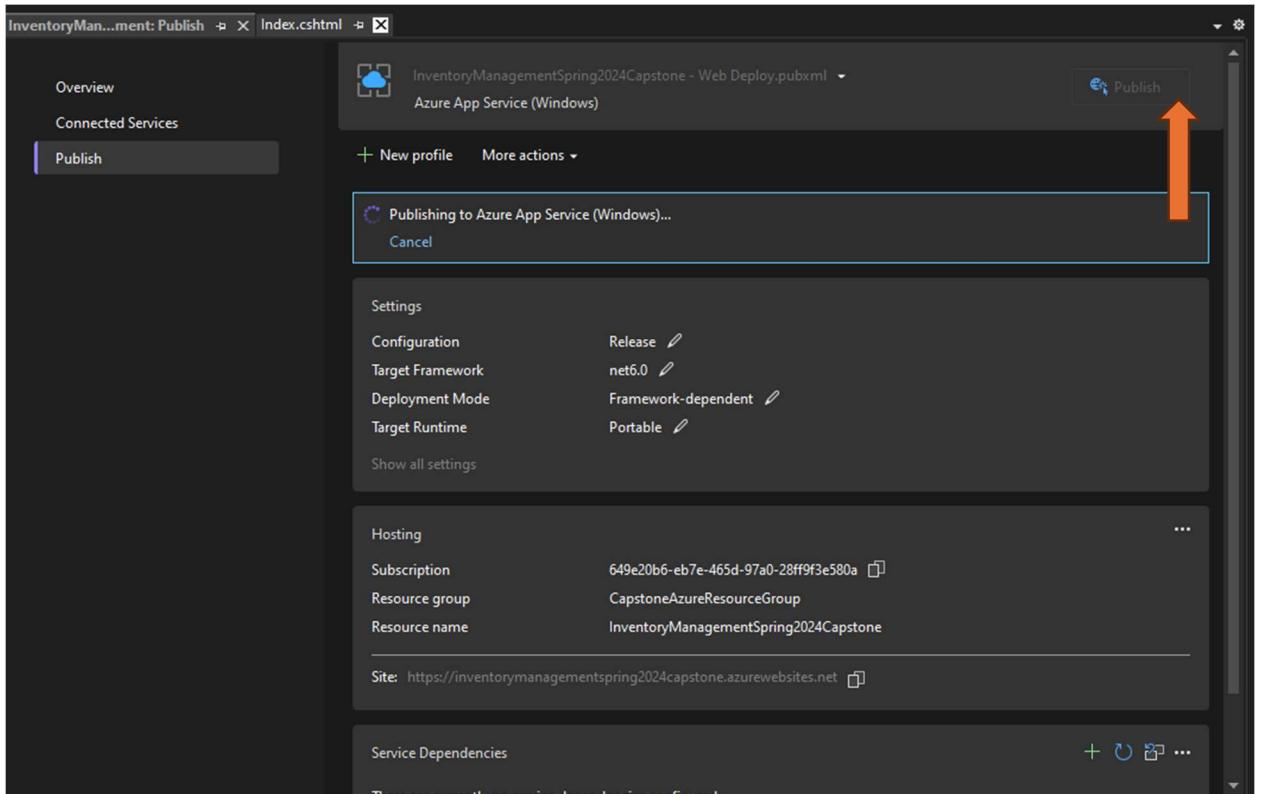
4. At the **end of the semester / Capstone project**, do not forget to delete the resource group and all of its services to stop incurring any charges on your Student Credit.

The screenshot shows the Azure portal interface for a 'Resource group' named 'CapstoneAzureResourceGroup'. The left sidebar includes options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, and Events. The main content area shows the 'Essentials' section with details such as Subscription (move) to 'Azure for Students', Subscription ID, and Tags. It also shows deployment statistics: '2 Succeeded'. An orange arrow points upwards from the bottom of the screenshot towards the 'Delete resource group' button in the top navigation bar.

Making changes to your project and republishing:

After making code changes:

- Ensure your connection string is the AZURE version in DBClass (that it is uncommented)
- Right click your project and click “Publish” once again to Azure:



You will see the changes reflected in the site:

