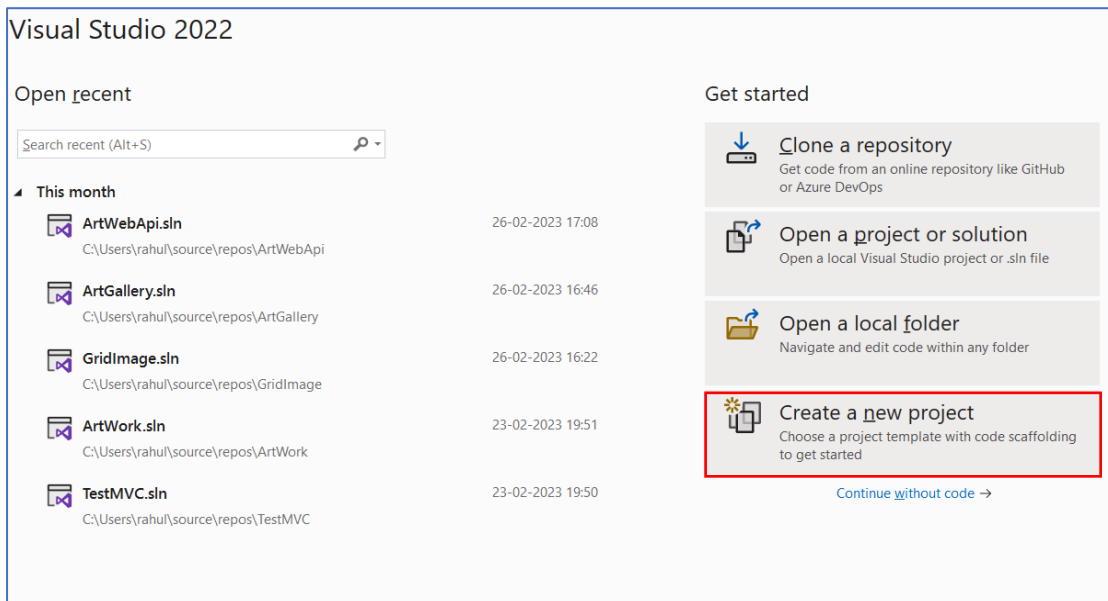


What is Azure Web App? Create and Deploy asp.net application in Azure.

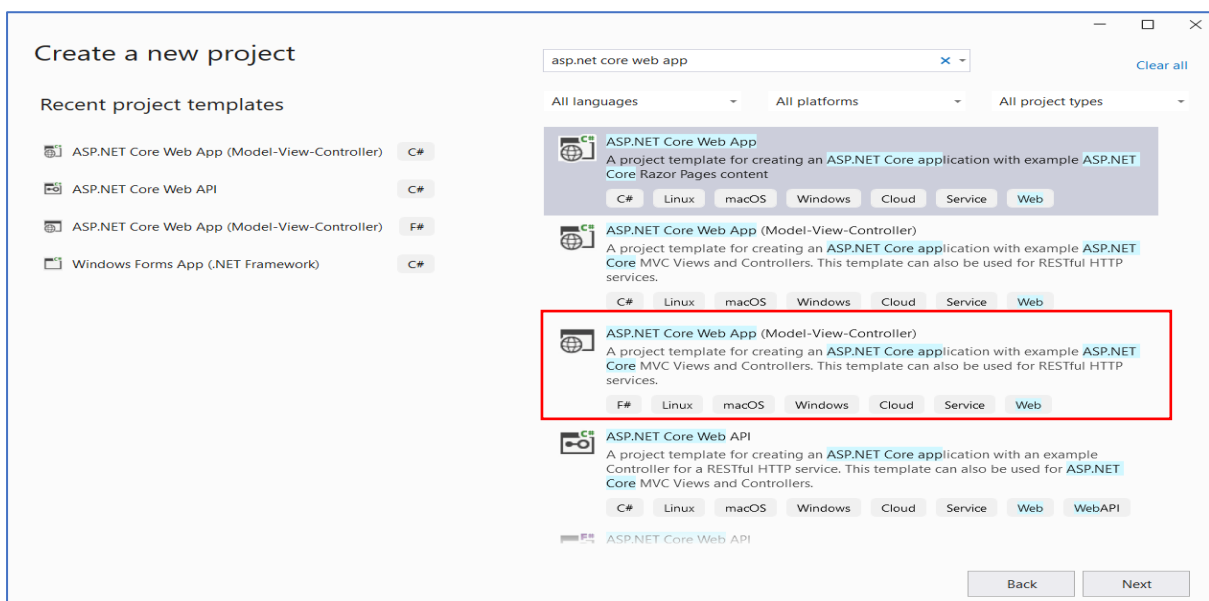
Azure Web Apps is a platform for Hosting web application. Azure Web apps support applications built on many languages and frameworks like ASP.Net, .Net Core, Java, PHP, Python, and Node.js.

Let's Create and Deploy asp.net application to Azure. Web application can be deployed using code or Containers.

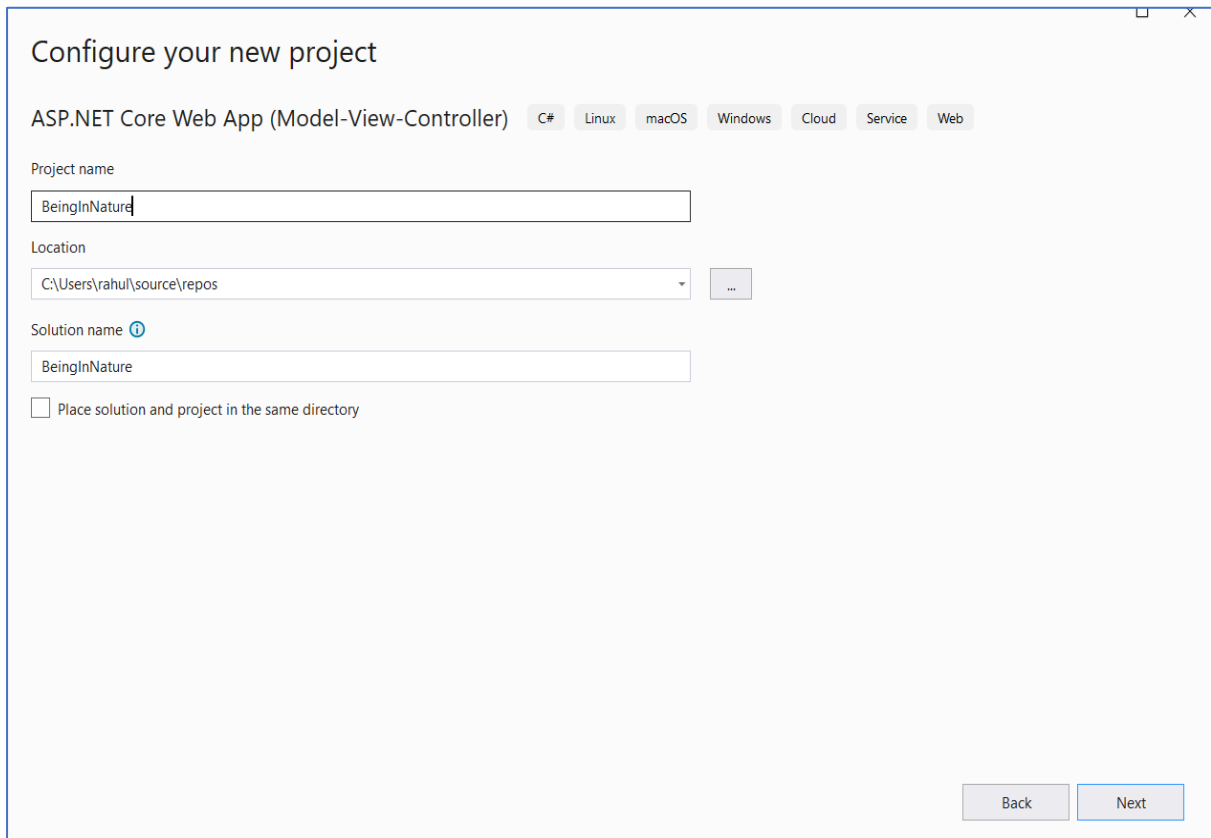
Create New Project



Search for **ASP.NET Core Web** project template and select asp.net core web app MVC template and click **Next**.



Enter project name **BeingInNature** as below.



Configure your new project

ASP.NET Core Web App (Model-View-Controller) C# Linux macOS Windows Cloud Service Web

Project name

BeingInNature

Location

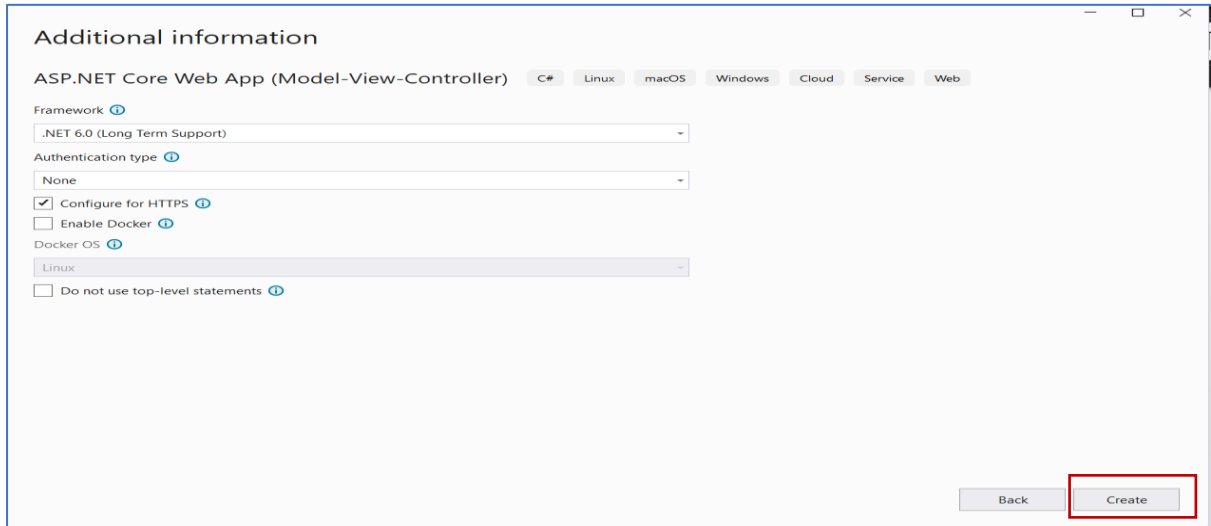
C:\Users\rahul\source\repos

Solution name ⓘ

BeingInNature

Place solution and project in the same directory

Back Next



Additional information

ASP.NET Core Web App (Model-View-Controller) C# Linux macOS Windows Cloud Service Web

Framework ⓘ

.NET 6.0 (Long Term Support)

Authentication type ⓘ

None

Configure for HTTPS ⓘ

Enable Docker ⓘ

Docker OS ⓘ

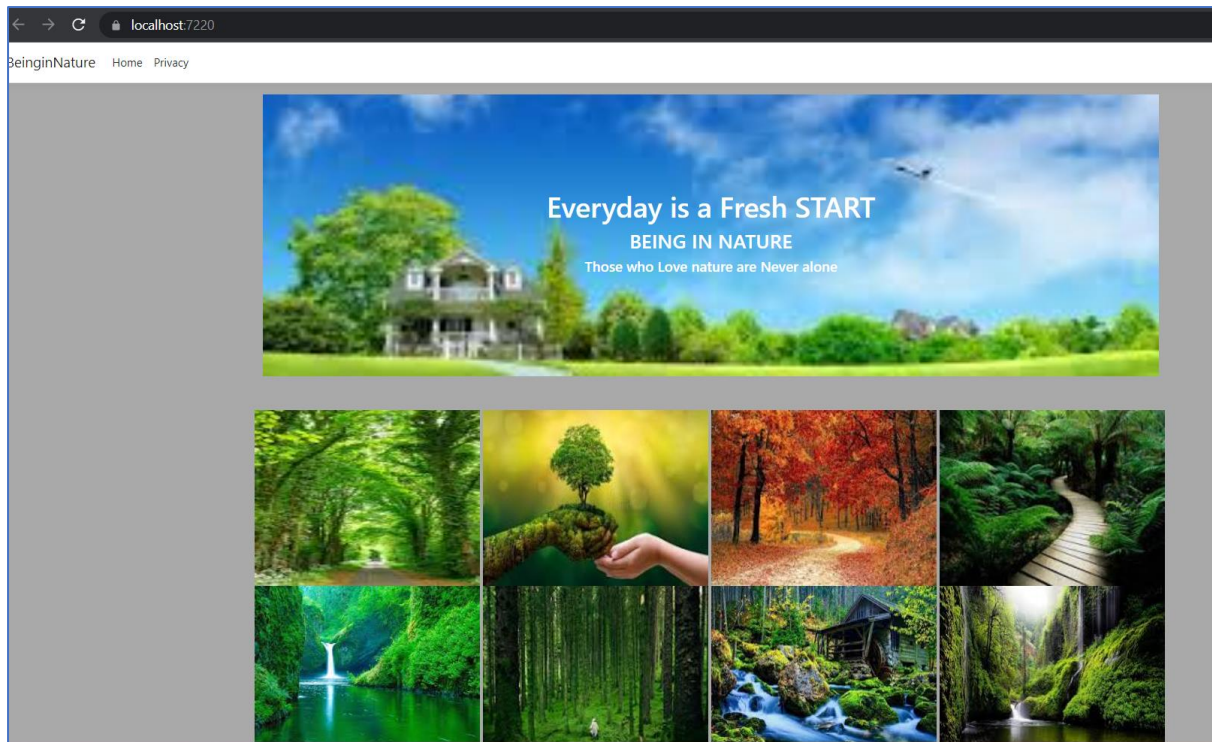
Linux

Do not use top-level statements ⓘ

Back Create

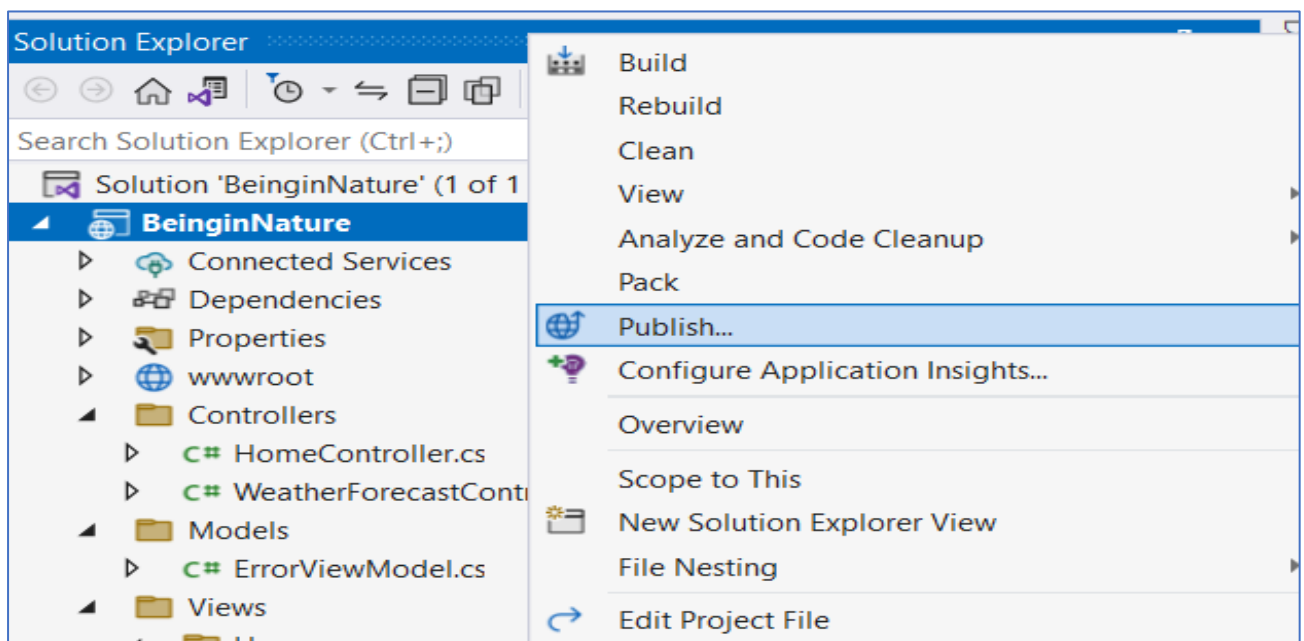
After Creating the Project. Open Solution Explorer -> Open ***index.cshtml*** in the ***Controller Home Folder***. I have added HTML & CSS code and upload images in local repository wwwfolder. This Step is Optional, else you can use the default Microsoft welcome message.

Now Build and Run the application by Hitting F5 to get the below Results

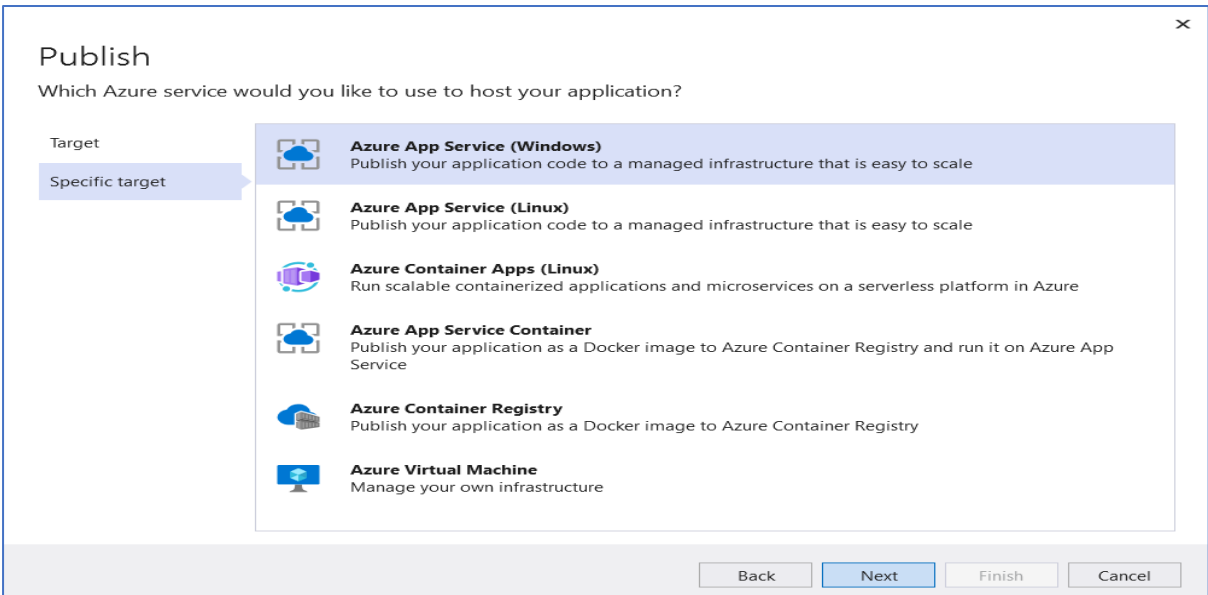
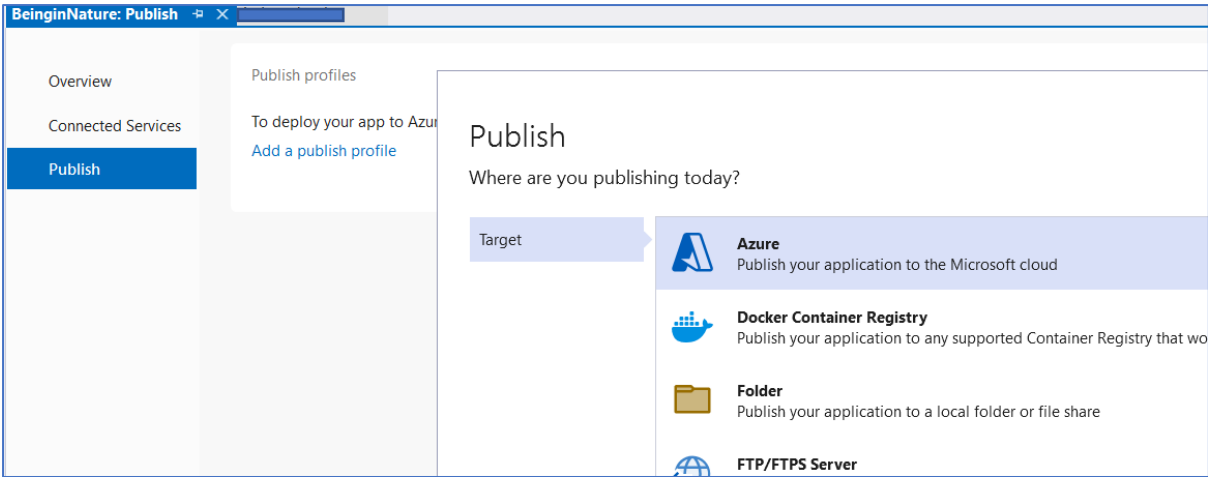


Let's Now Deploy our Application in Azure App Service.

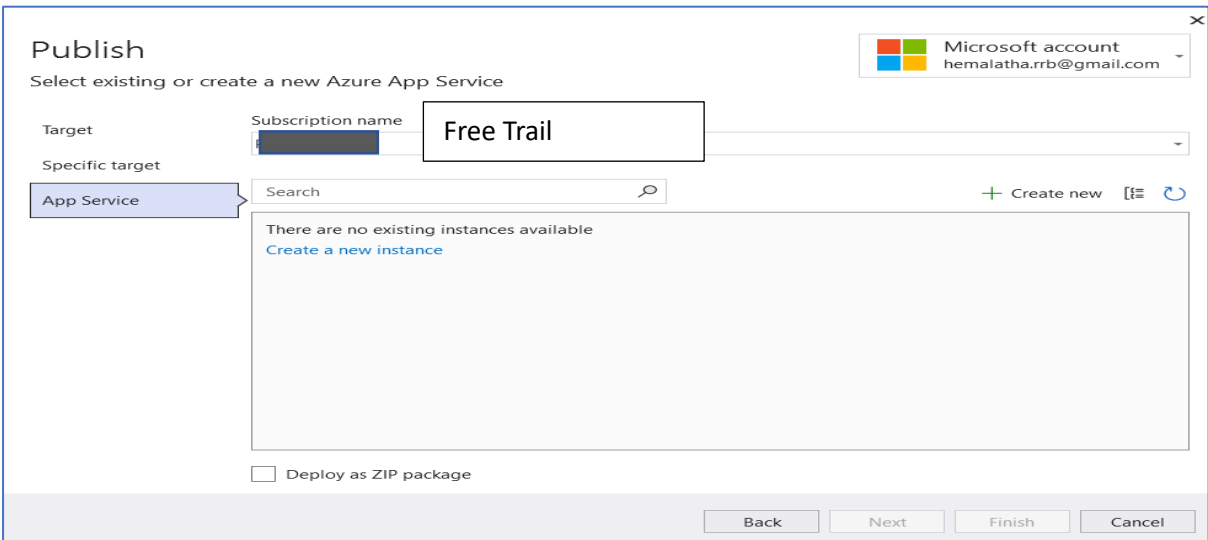
Open Solution Explorer and Select Publish.




Select Azure



Select Your Subscription Free Trial.





Hosting Plan


Create new

Hosting Plan

Location

Size

OK Cancel



App Service (Windows)

Create new

Microsoft account
hemalatha.rrb@gmail.com

Name

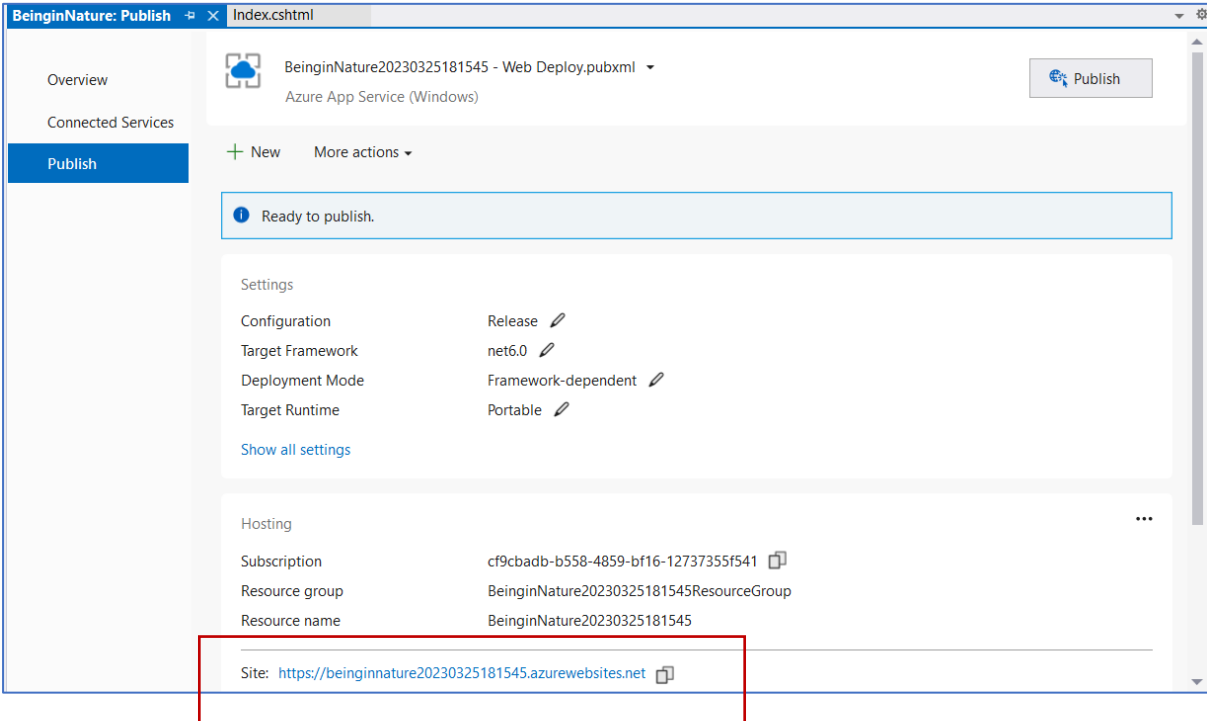
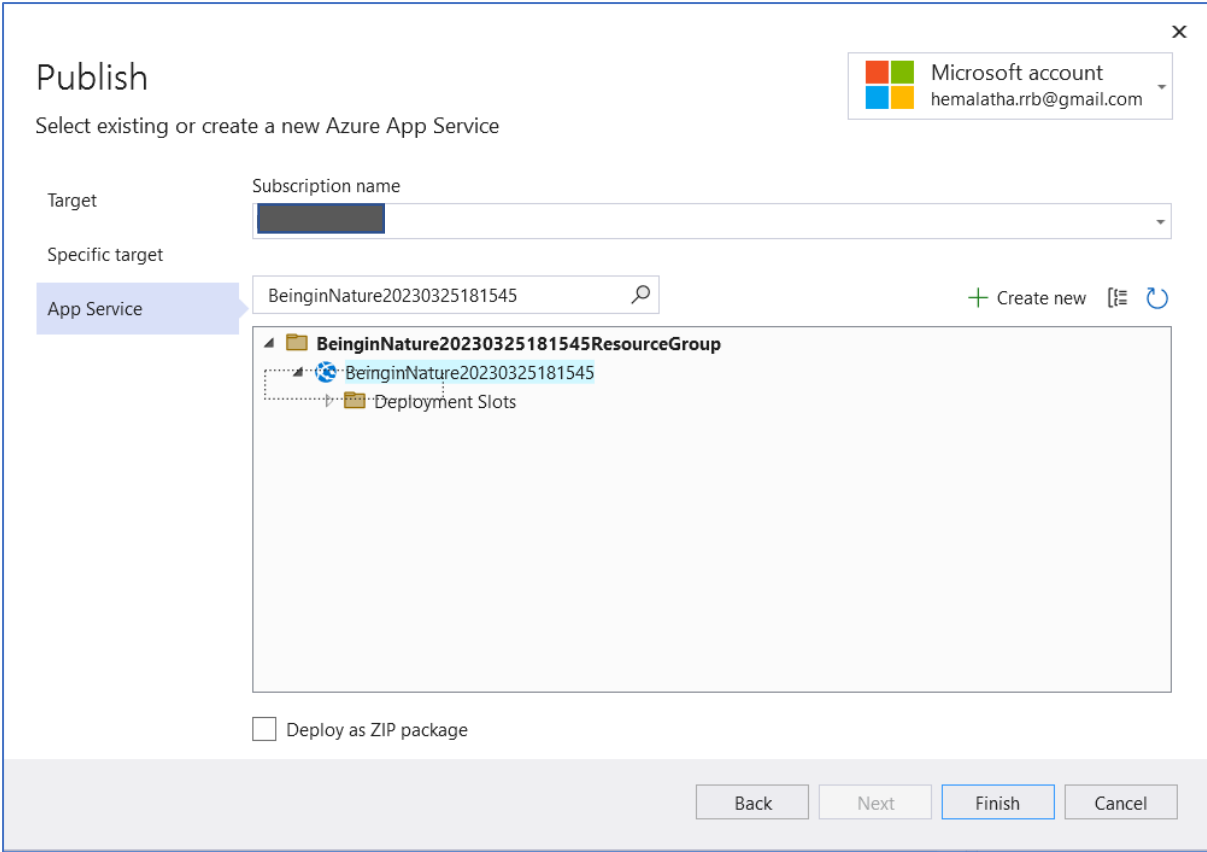
Subscription name

Resource group

 New...
 New...

Creating: App Service...

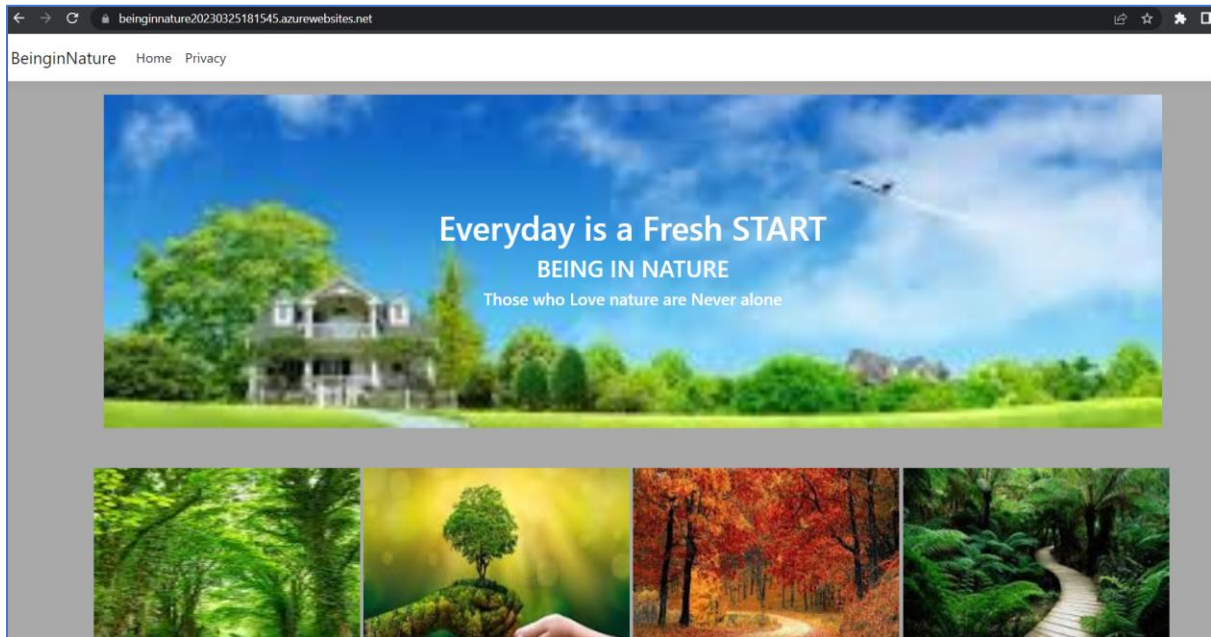
Create Cancel



Select the above URL and paste in Browser

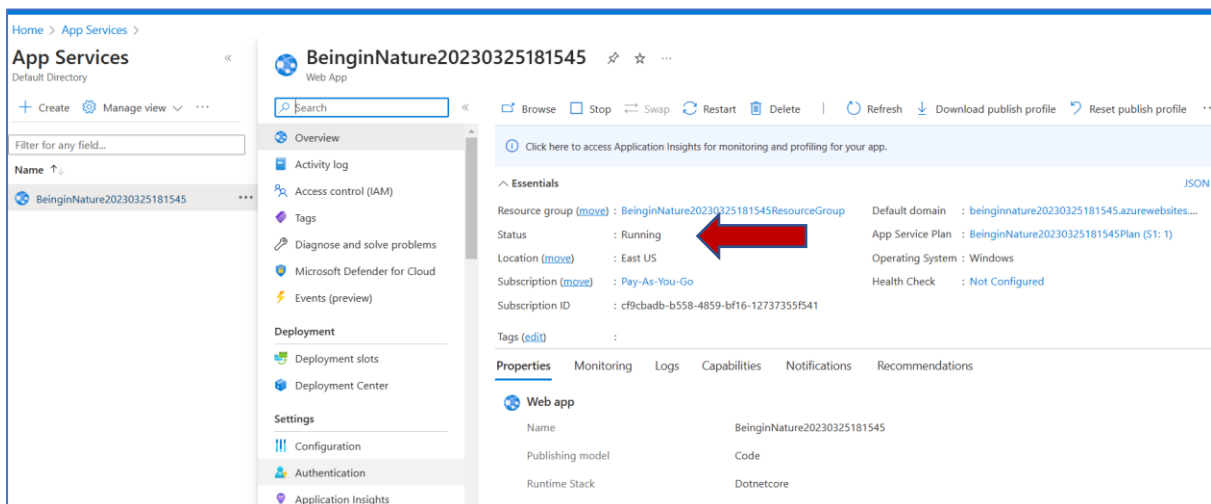
Now you can see the App Running in Azure. Now Visual Studio Has Created the webapp in Azure and deployed the application.

Whenever you make changes in the app you republish and see the updated changes in Azure.



You can also check this by Logging into Azure Portal.

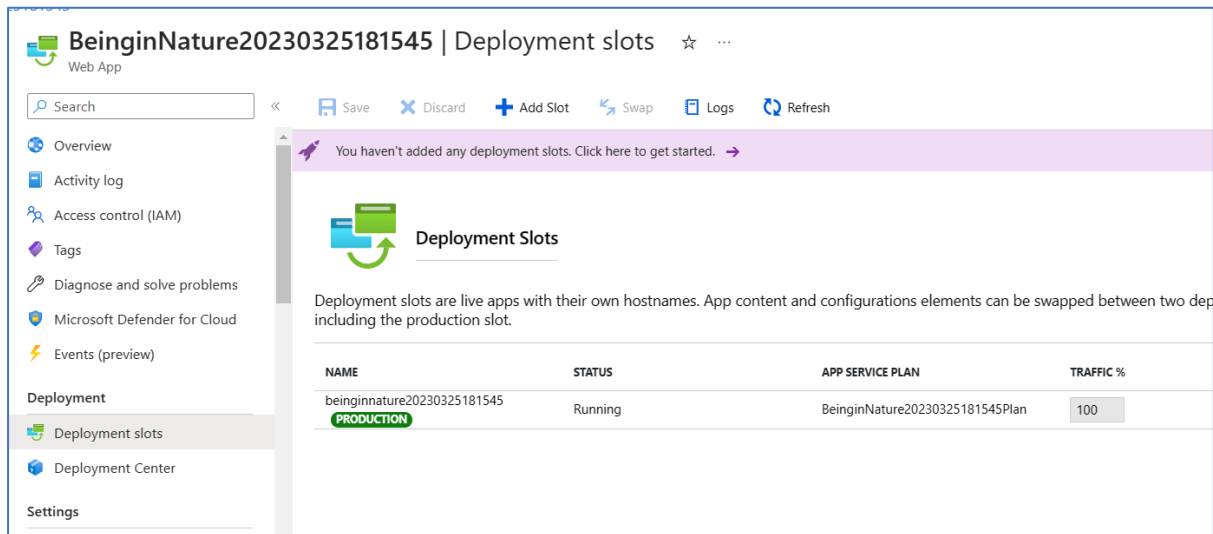
Search webapp and select our webapp. We can see the status as Running.



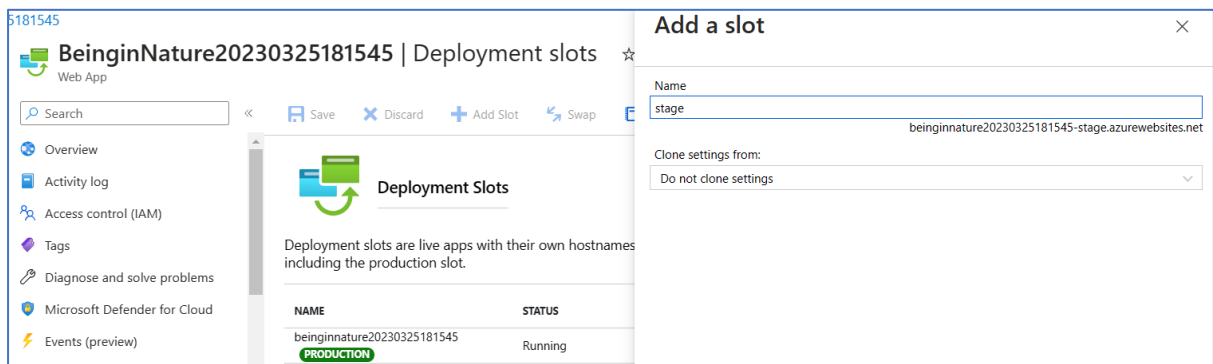
Deployment

We can deploy the web apps in separate deployments slots to ensure that the application runs as expected before it goes live in production. To deploy multiple deployment slots we need Standard, Premium, or Isolated tier.

Select our webapp and select Deployment slots in Deployment blade. We can see the Production slot running.



Deployment Slots Add slots name it as stage



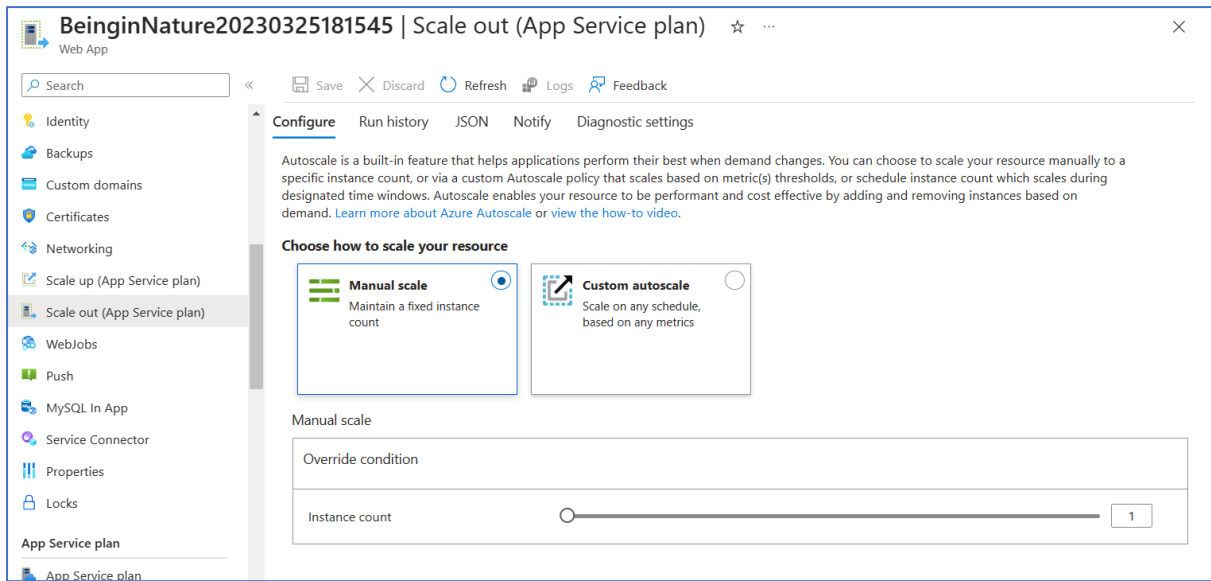
Also, we can swap production and staging slot.

Scaling:

Autoscale: we can scale out or scale up the web apps instances based on load profile.

Scaling in and out (Horizontal Scaling):

We can upgrade the capacity of the app by increasing the number of host instances either manually or automate based on metrics.



Scale Up and Scale Down (Vertical Scaling):

We can scale up or scale Down by changing the pricing tier of the App Service plan.

The screenshot shows the 'Scale up (App Service plan)' page in the Azure portal. The left sidebar is the same as in the previous image. The main content area has tabs for 'Hardware view' (selected) and 'Feature view'. Below the tabs, there is a table of App Service pricing plans. The table is divided into two sections: 'Dev/Test (For less demanding workloads)' and 'Production (For most production workloads)'. The 'Standard S1' plan is selected.

Name	ACU/vCPU	vCPU	Memory (GB)	Cost per hour	Cost per month
Dev/Test (For less demanding workloads)					
<input type="checkbox"/> Free F1	60 minutes/day...	N/A	1	Free	Free
<input type="checkbox"/> Shared D1	240 minutes/da...	N/A	1	1.021 INR	745.292 INR
<input type="checkbox"/> Basic B1	100	1	1.75	5.89 INR	4299.764 INR
<input type="checkbox"/> Basic B2	100	2	3.5	11.78 INR	8599.528 INR
<input type="checkbox"/> Basic B3	100	4	7	23.56 INR	17199.056 INR
Production (For most production workloads)					
<input checked="" type="checkbox"/> Standard S1	100	1	1.75	7.853 INR	5733.019 INR
<input type="checkbox"/> Premium v3 P1V3	195	2	8	24.738 INR	18059.008 INR
<input type="checkbox"/> Premium v3 P2V3	195	4	16	49.477 INR	36118.017 INR
<input type="checkbox"/> Premium v3 P3V3	195	8	32	98.953 INR	72236.033 INR
<input type="checkbox"/> Standard S2	100	2	3.5	15.707 INR	11466.037 INR

Clean-up the Resource

Select Resource Group and select the below 2 Resource (App Service & App Service Plan Group) and delete.

BeinginNature20230325181545ResourceGroup ✕ ☆ ...
Resource group

Search < + Create ⚙️ Manage view ⌵ 🗑️ Delete resource group 🔄 Refresh 📄 Export to CSV 🔗 Open query | 🏷️ Assign tags ⋮

Overview

- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

- Deployments
- Security
- Policies
- Properties
- Locks

Essentials JSON View

Resources Recommendations

Filter for any field... Type equals all ✕ Location equals all ✕ + Add filter

Showing 1 to 2 of 2 records. Show hidden types ⓘ No grouping List view

<input checked="" type="checkbox"/>	Name ↑↓	Type ↑↓	Location ↑↓
<input checked="" type="checkbox"/>	BeinginNature20230325181545	App Service	East US
<input checked="" type="checkbox"/>	BeinginNature20230325181545Plan	App Service plan	East US