SWINBURNE VIETNAM

HO CHI MINH CAMPUS

Class: COS40006

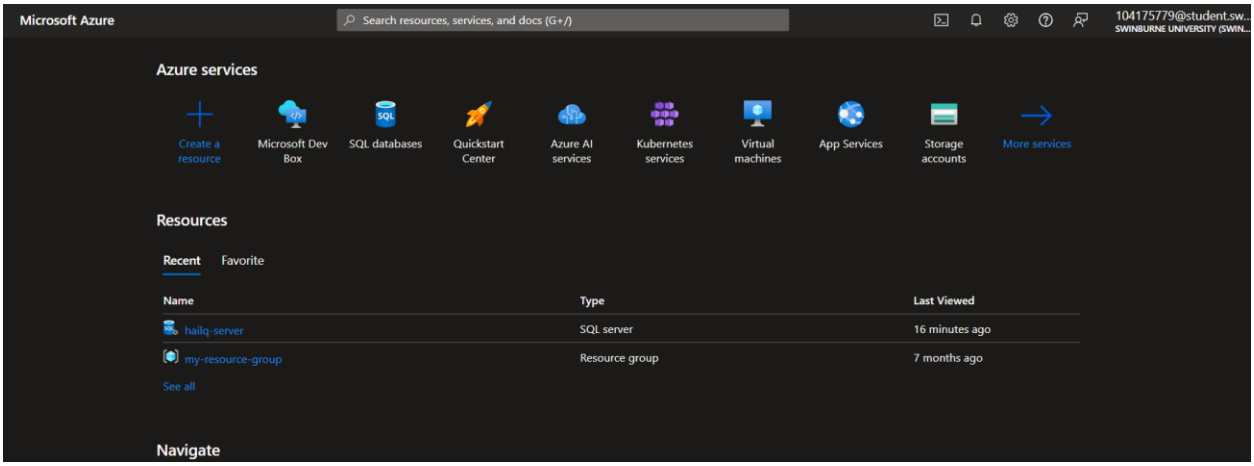
Deployment Portfolio Task 3

Instructor: Dr. Thomas Hang

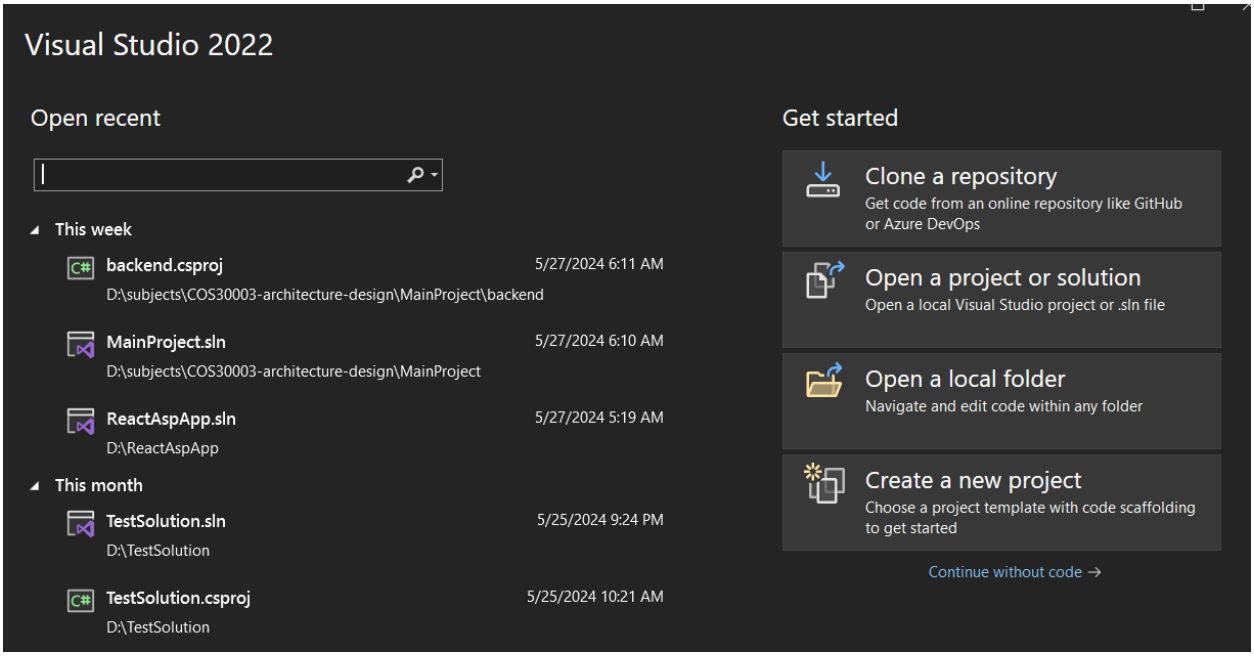
Student names: Le Quang Hai

Task 3.1 Pass:

Create Azure account

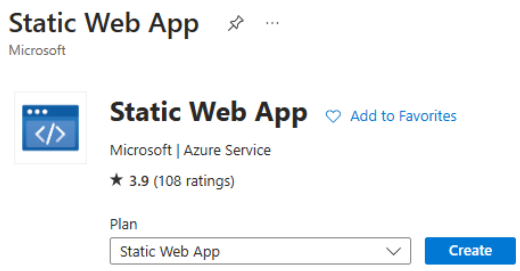


Install visual Studio



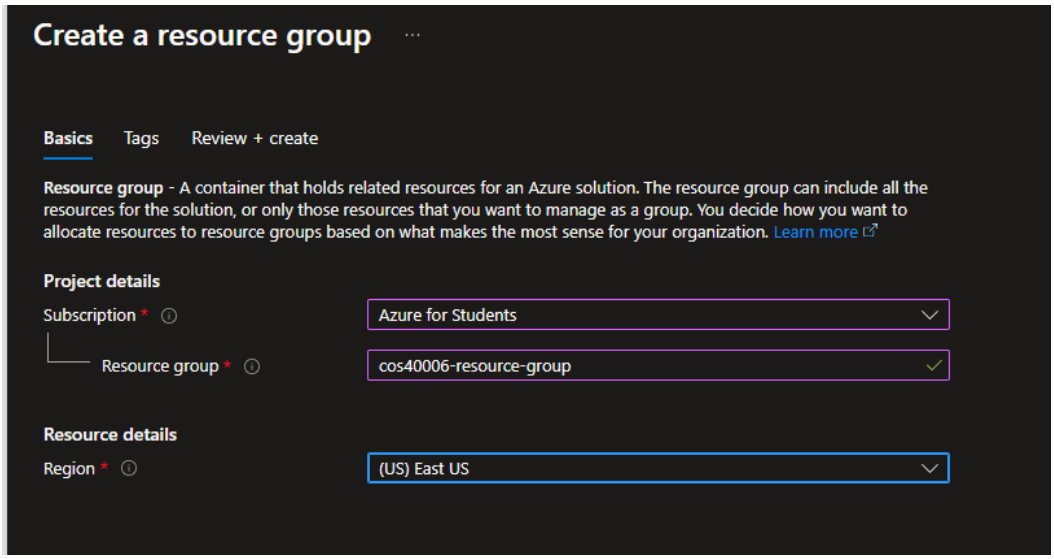
Deploy any existing app to cloud via Azure

For simplicity we will test on a static web app

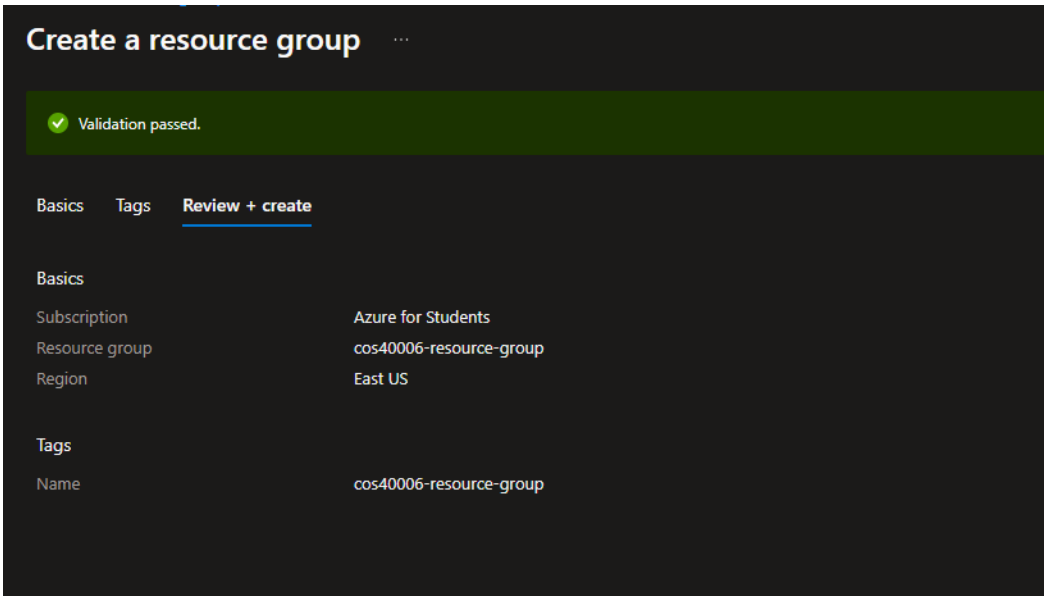


Create a resource group

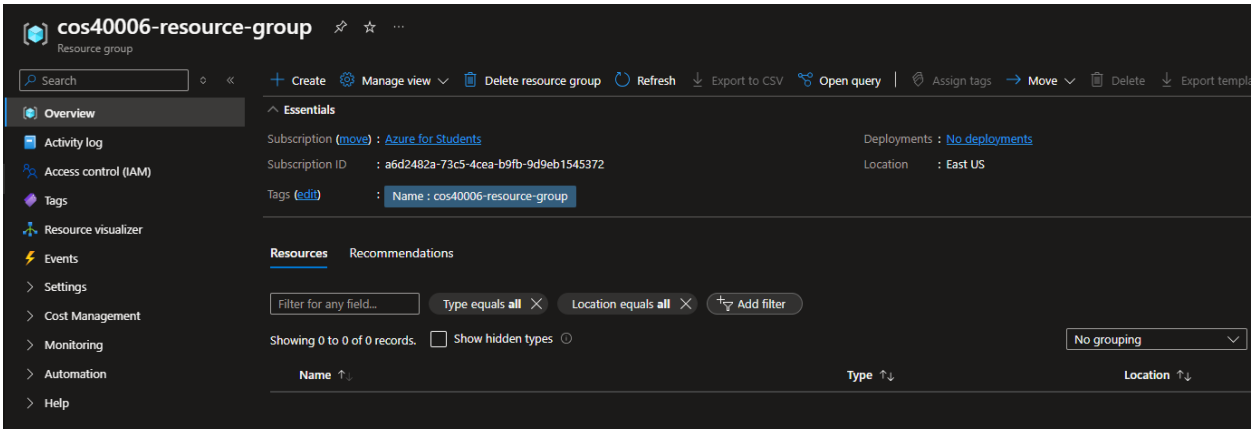
Enter subscription, name, region



Review and create

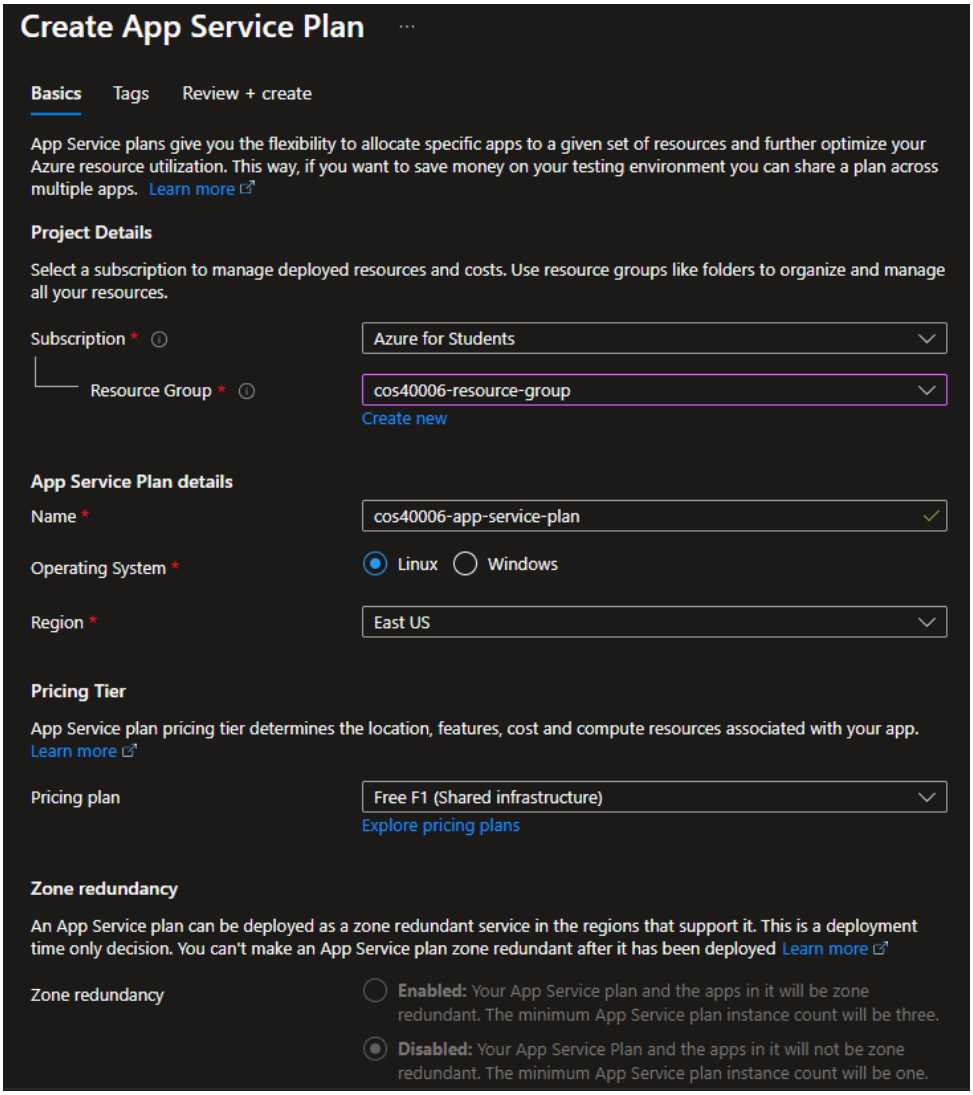


Create successfully

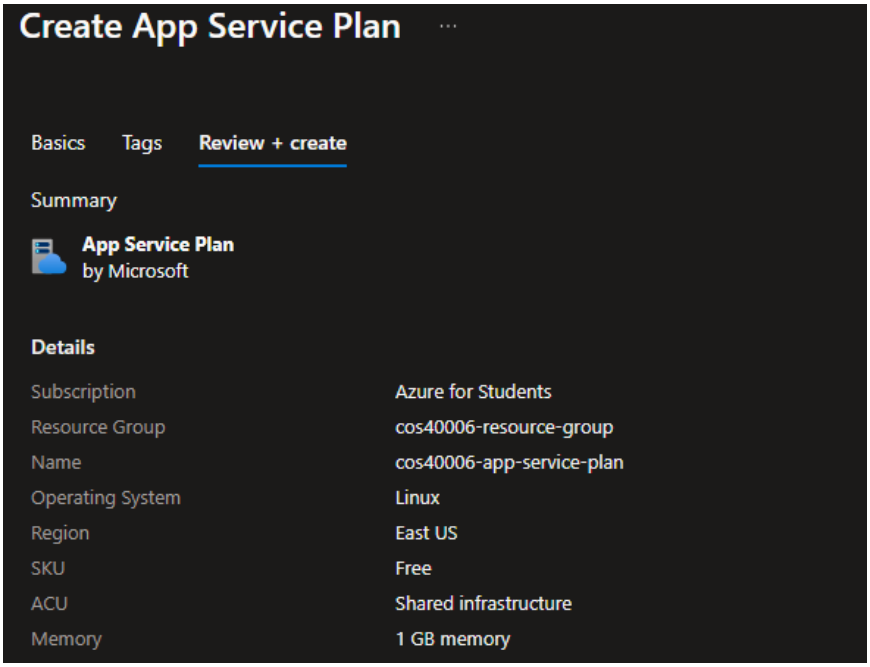


Create a new app service plan to be used in the new web app

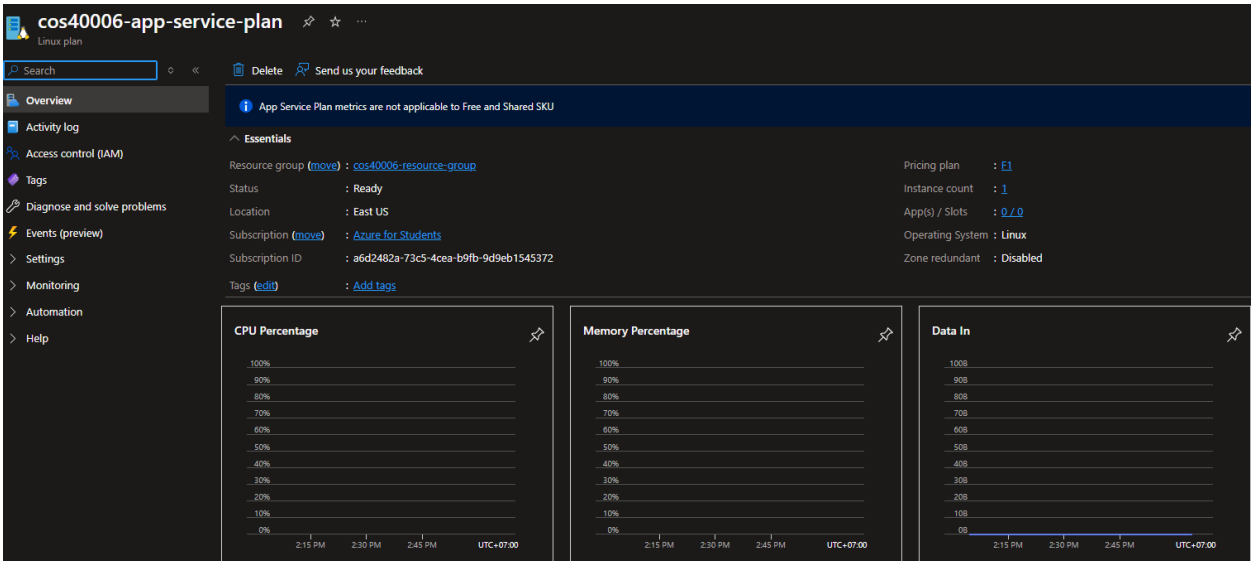
Select the subscription, group resource, operation system, machine type, region and tier



Review and create



Create successfully



Create the new web app

Select subscription, resource group (created from above screenshots), name, and source code location

Create Static Web App

Basics | Advanced | Tags | Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. Learn more

Project Details

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

Subscription * : Azure subscription 1

Resource Group * : cos40006-resource-group

Create new

Static Web App details

Name * : COS40006-StaticWebApp

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. Compare plans

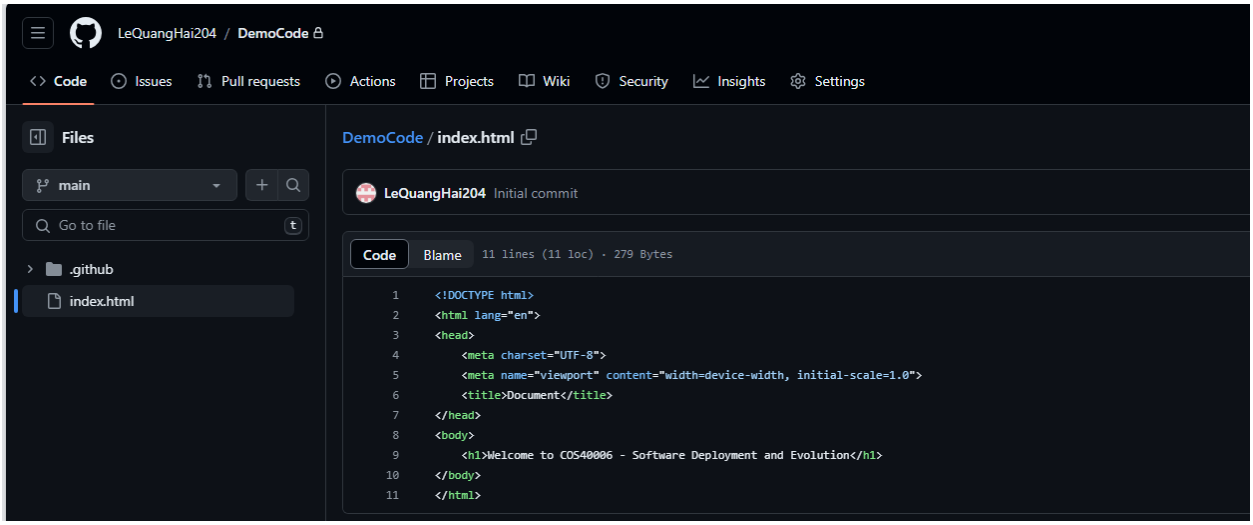
Plan type:
- (•) Free: For hobby or personal projects
- ( ) Standard: For general purpose production apps
- ( ) Dedicated (preview): For general purpose production apps

Regions: Global

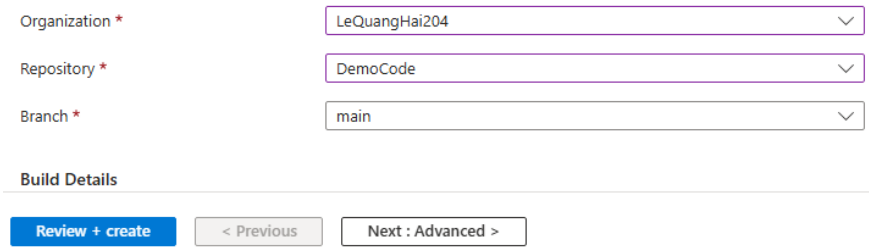
Deployment details

Source: (•) GitHub ( ) Azure DevOps ( ) Other

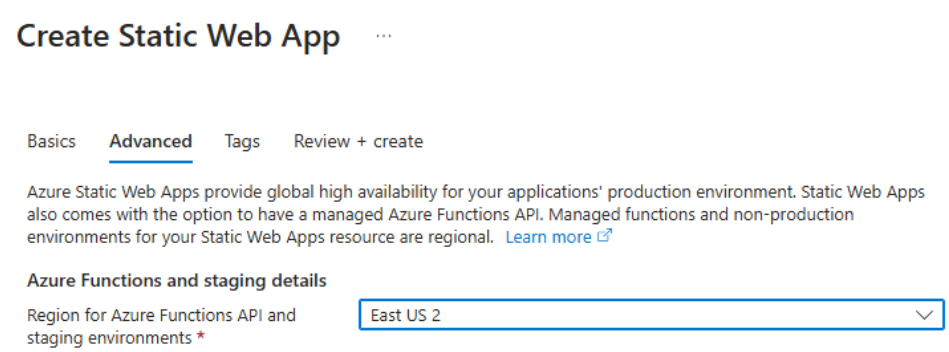
Open a new tab, go to GitHub and create a DemoCode repository containing an index.html file with contain as below



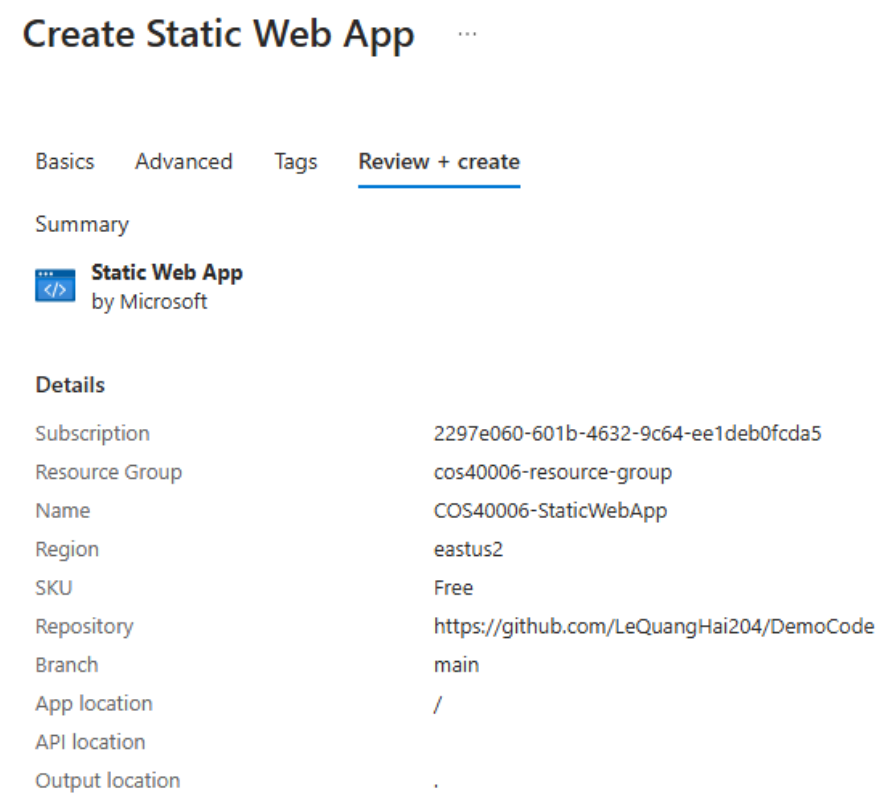
Back to web app creation, select the repository to deploy



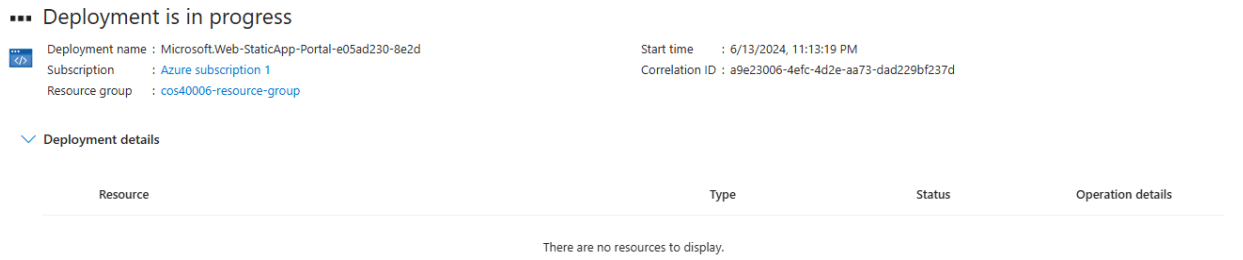
Select region



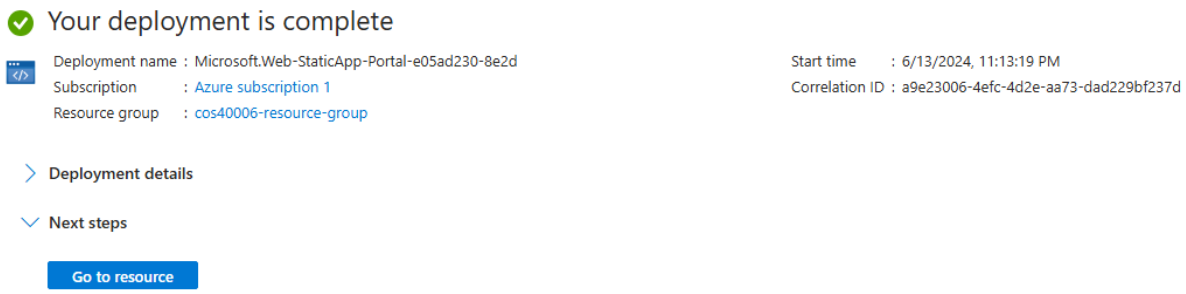
Review configuration before creation



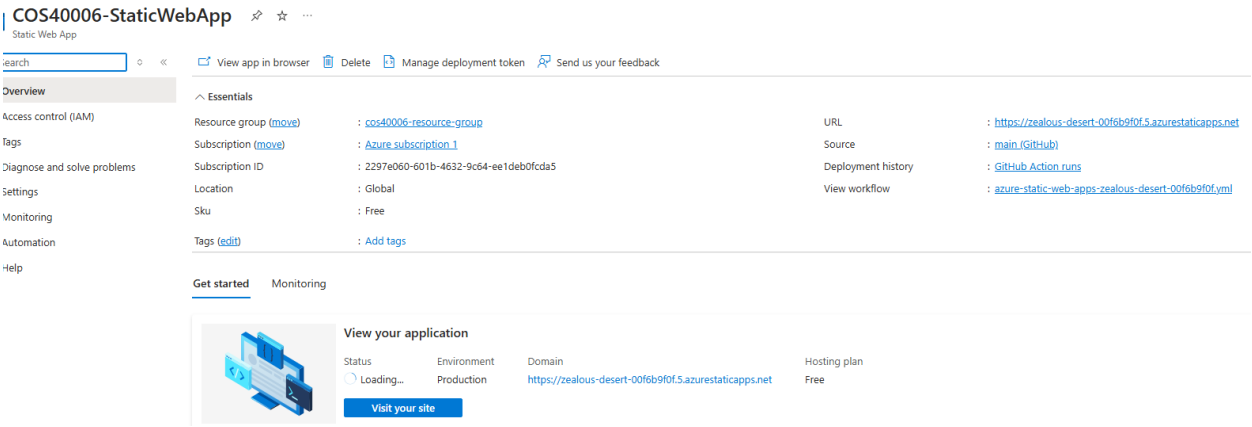
Web application on deployment, waiting ...



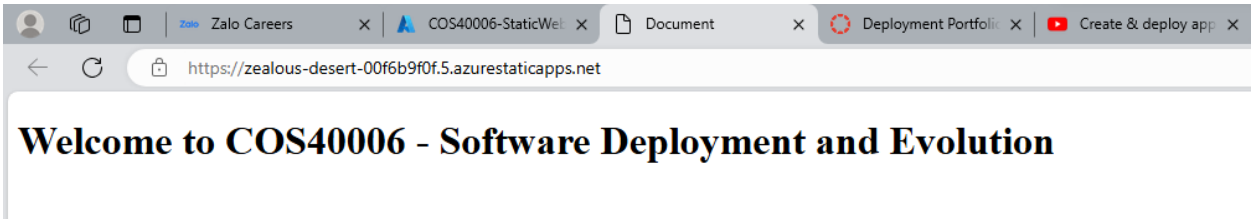
Web application deployed successfully



Go to resource

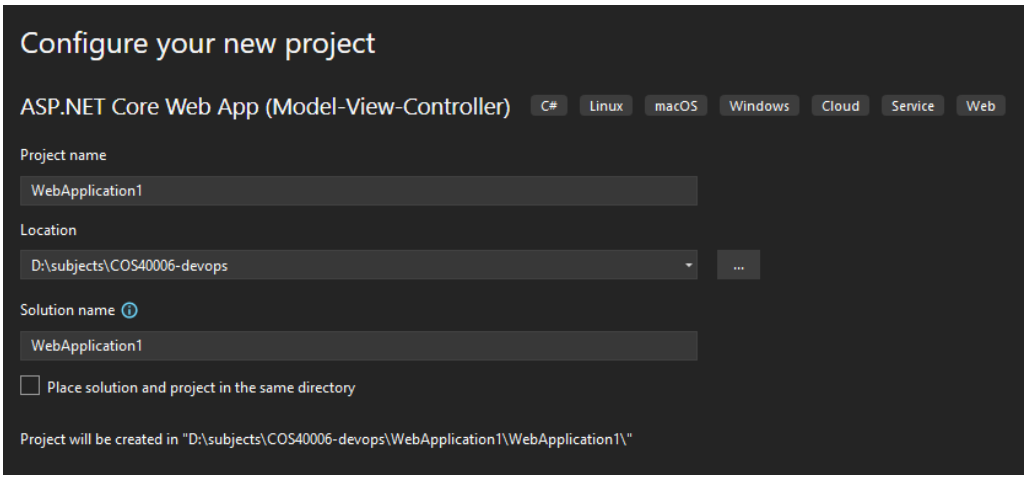


Visit the website that we deployed

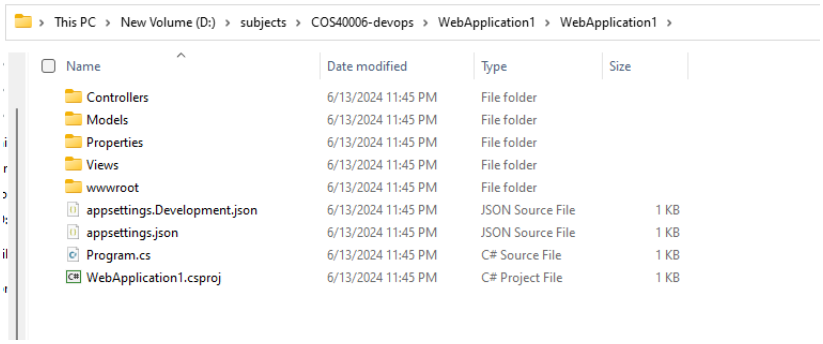


Task 3.2 Credit

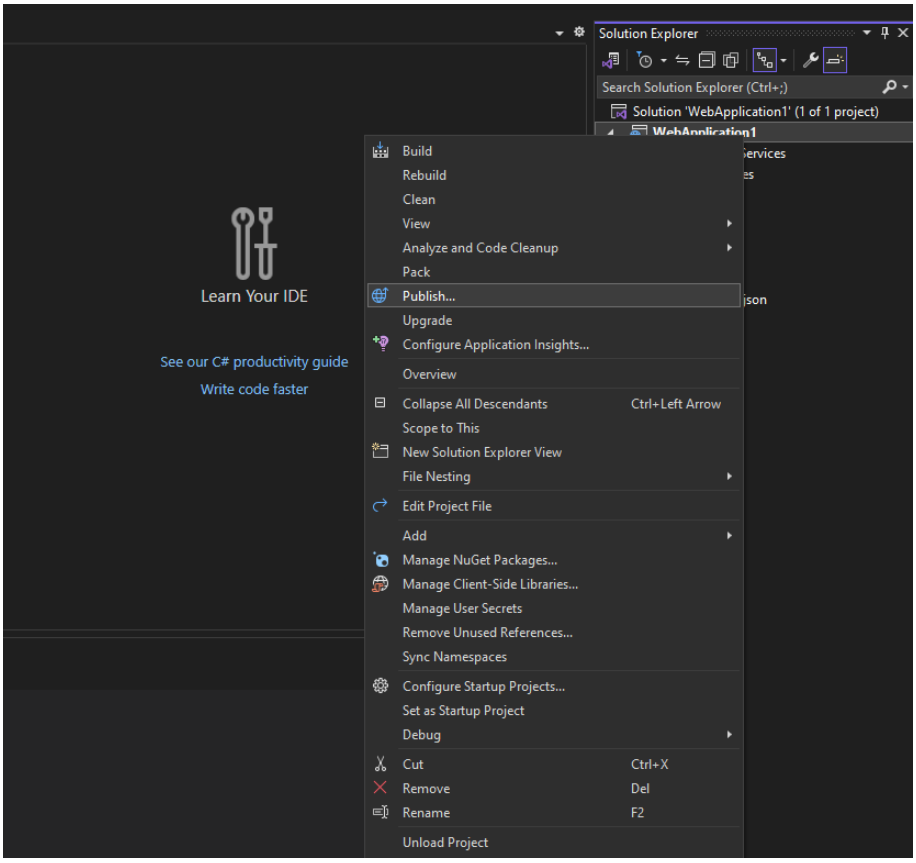
From Visual Studio, create an ASP.NET Core Web App Project



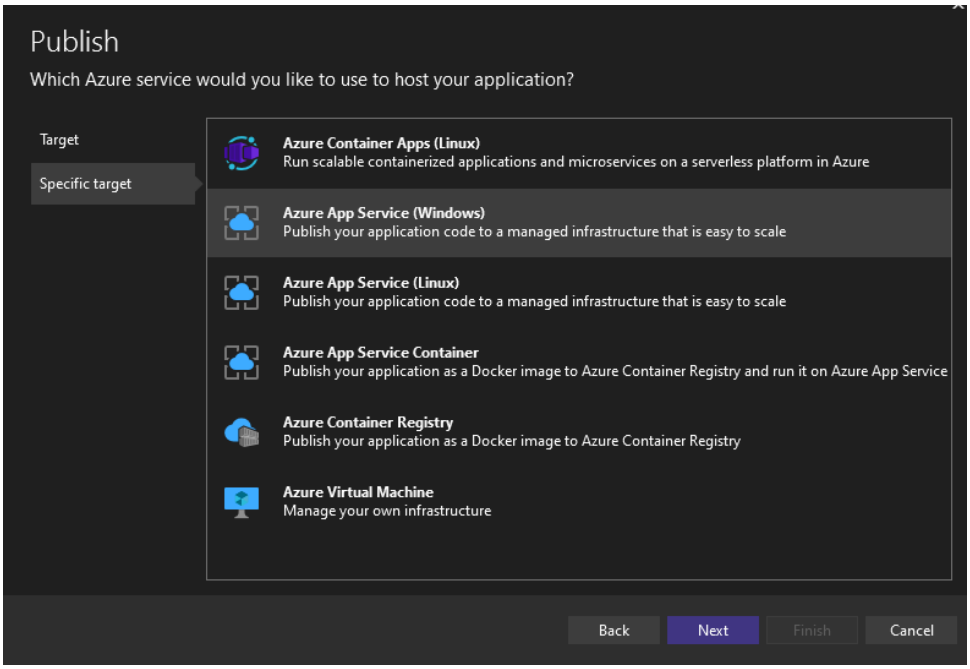
Verify the ASP.NET Core Web App created successfully



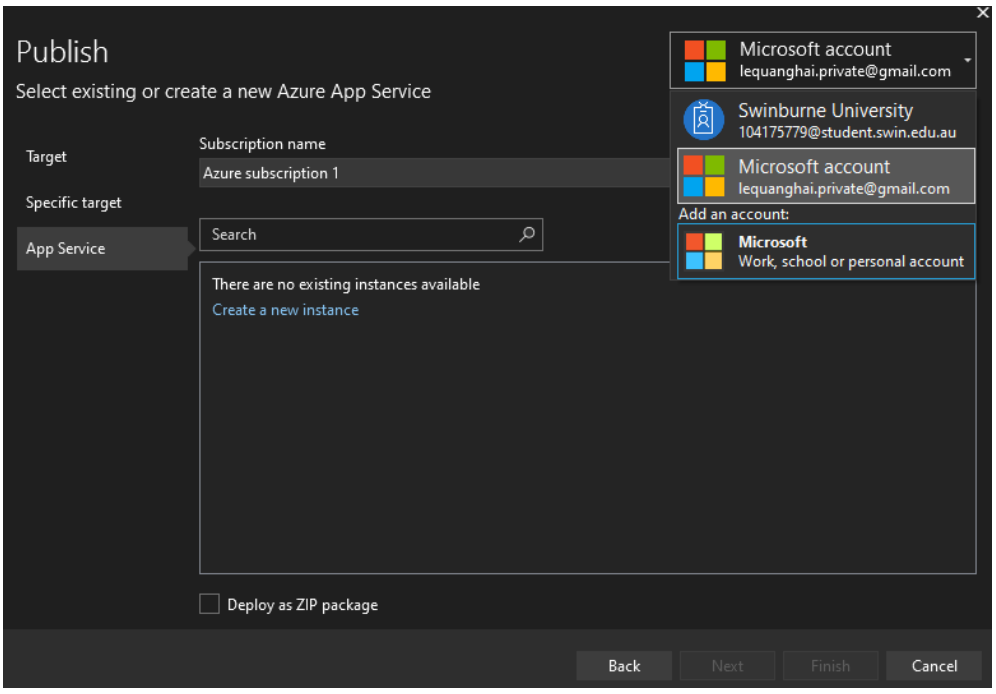
Right click the project and select “publish”



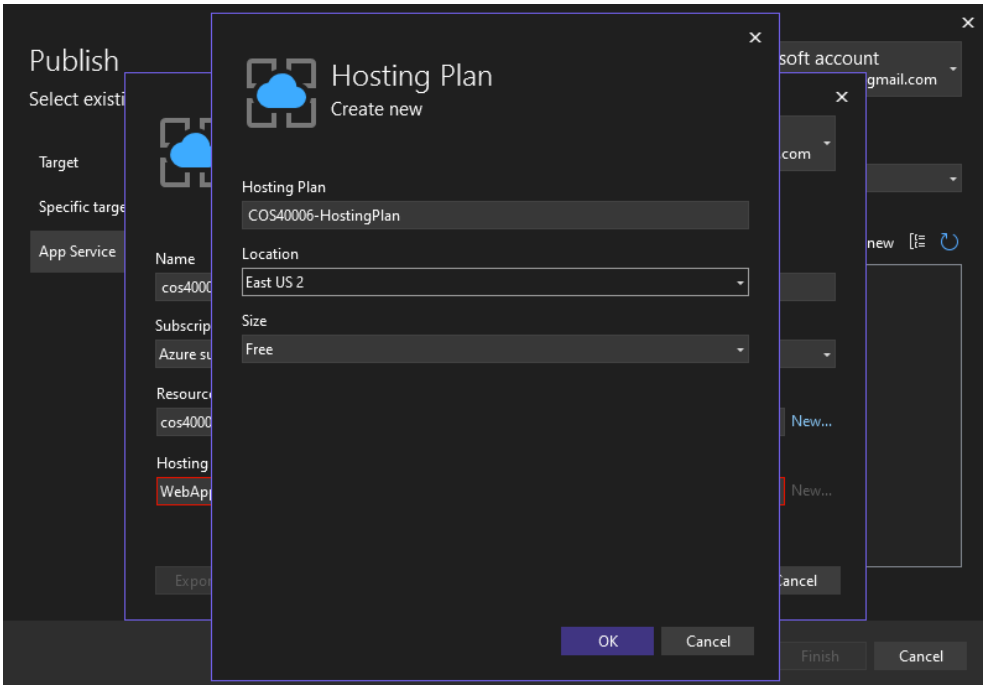
In the select window, select "Azure App Service for Windows”



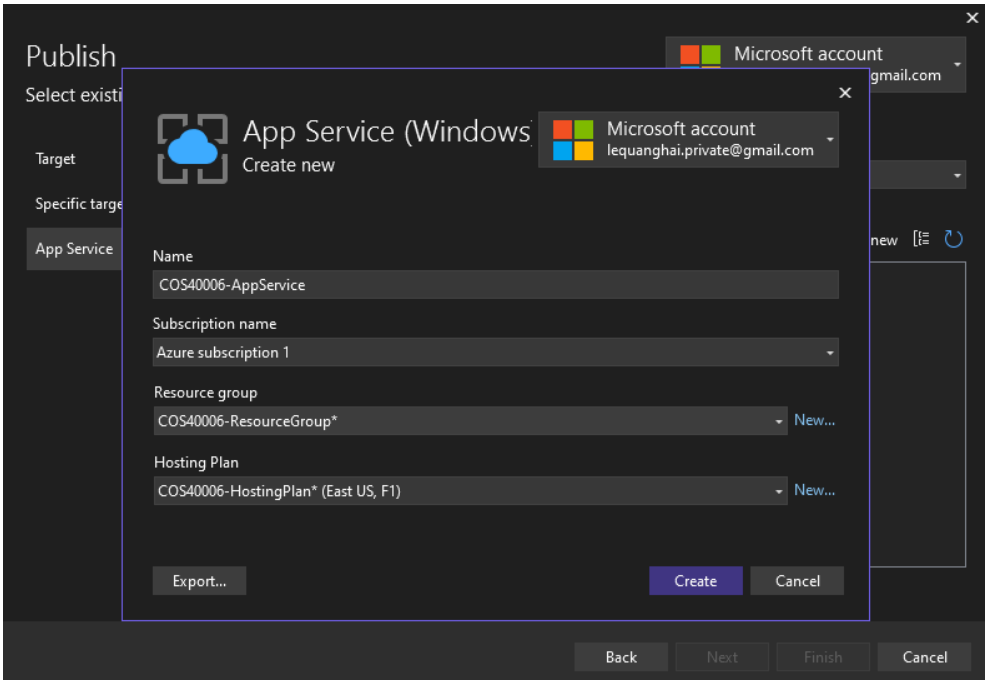
Log in with your Azure account



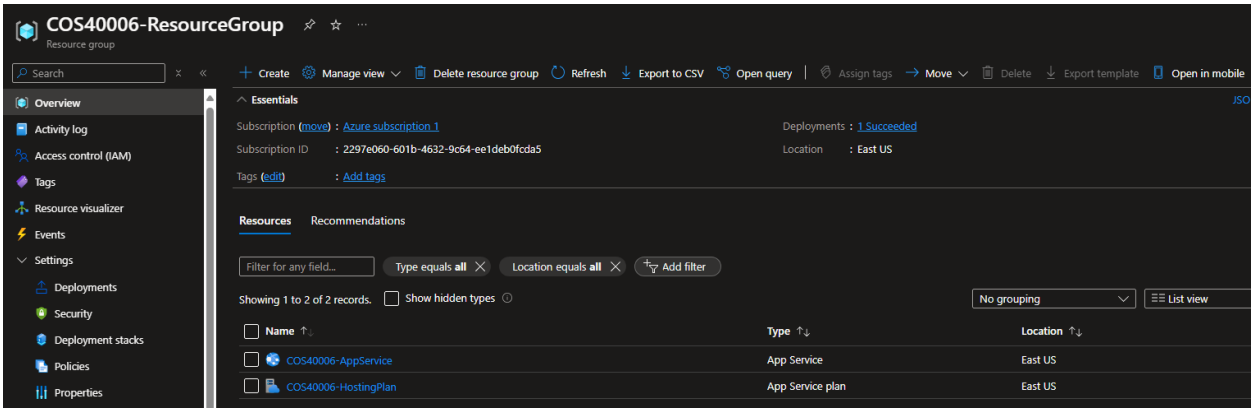
Create a hosting plan from within the publish



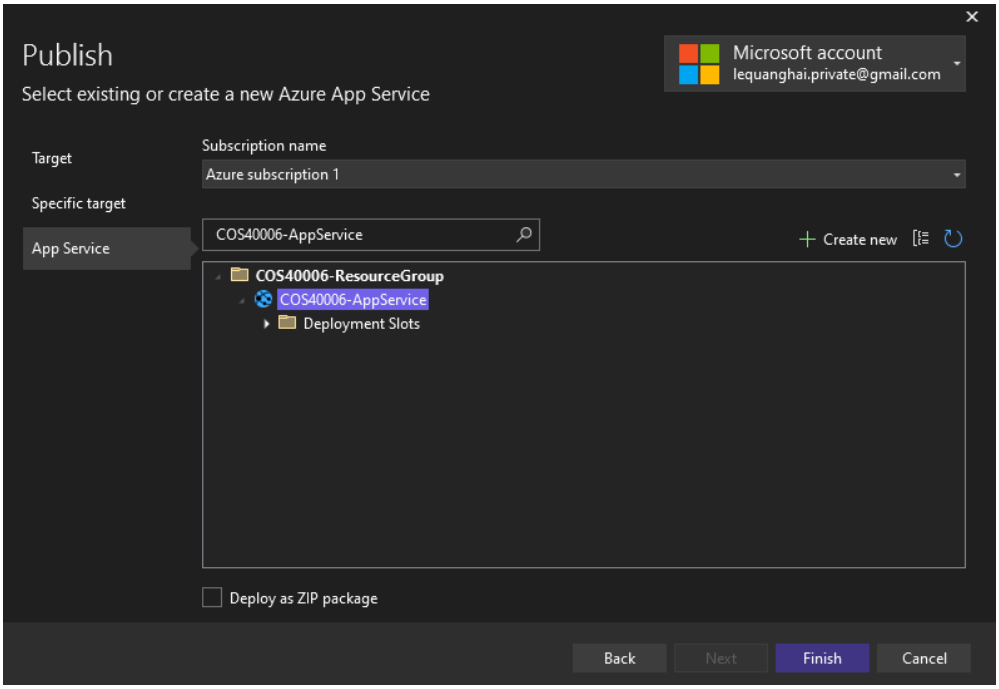
Now we have configured to create a Windows App Service in a new resource group named COS40006-ResourceGroup and with COS40006-HostingPlan hosting plan



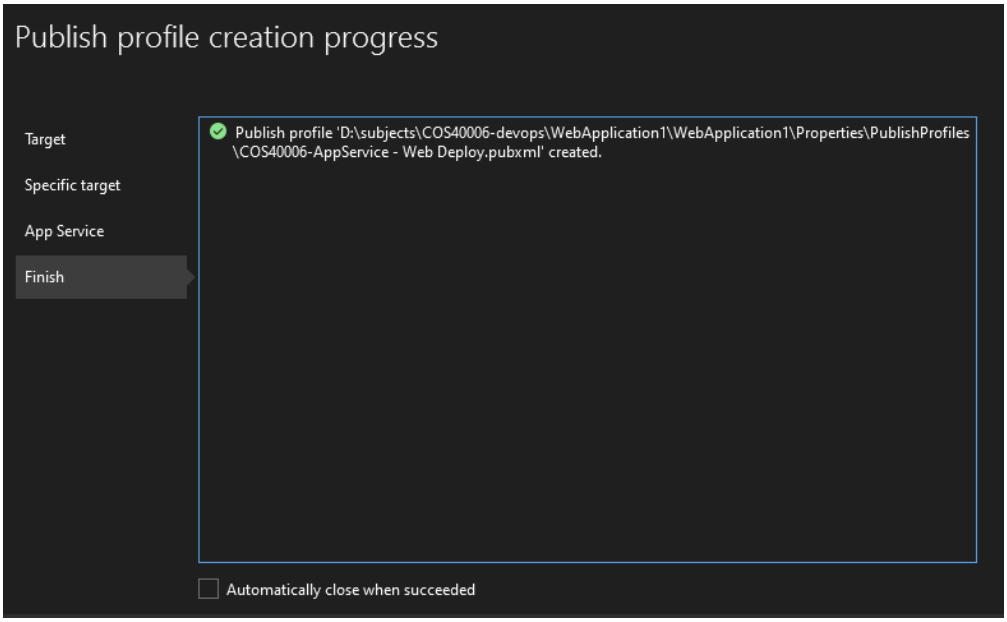
Click create, waiting ... After finishing, we can go to Azure portal console web platform to verify the success creation of the resources



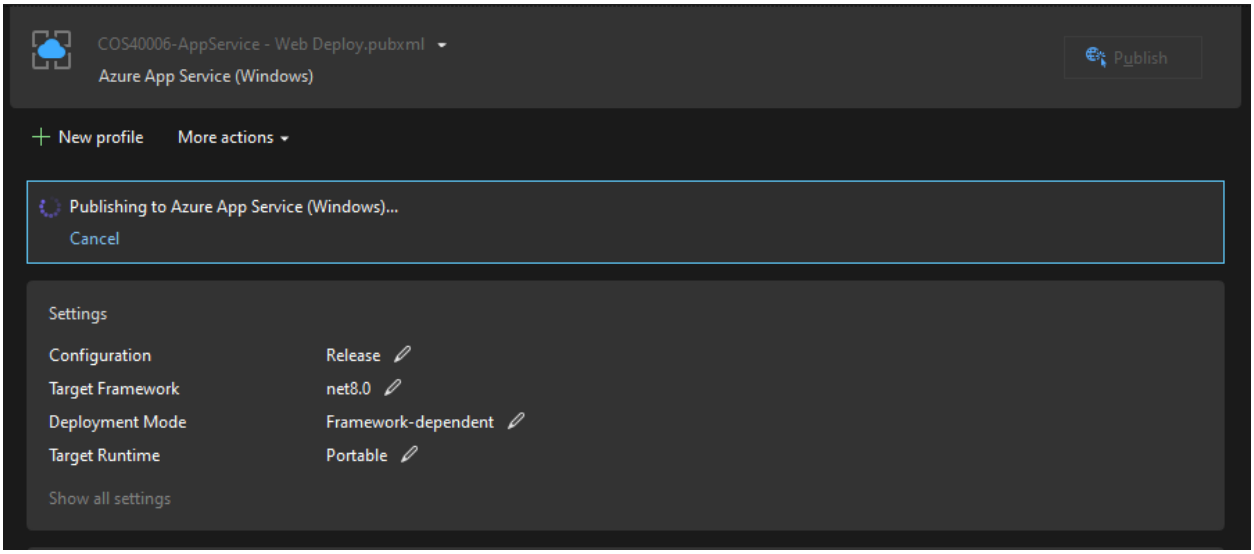
We verify from Visual Studio and click ‘Finish’



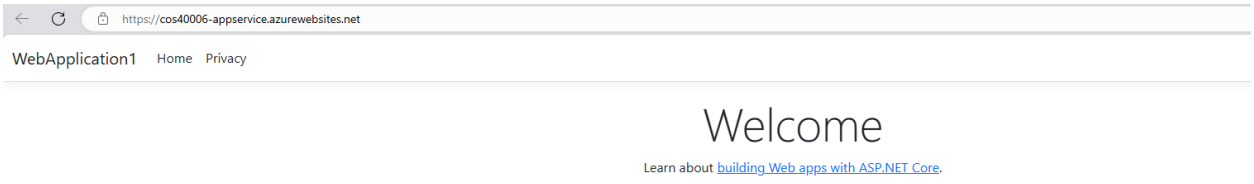
Done publishing app



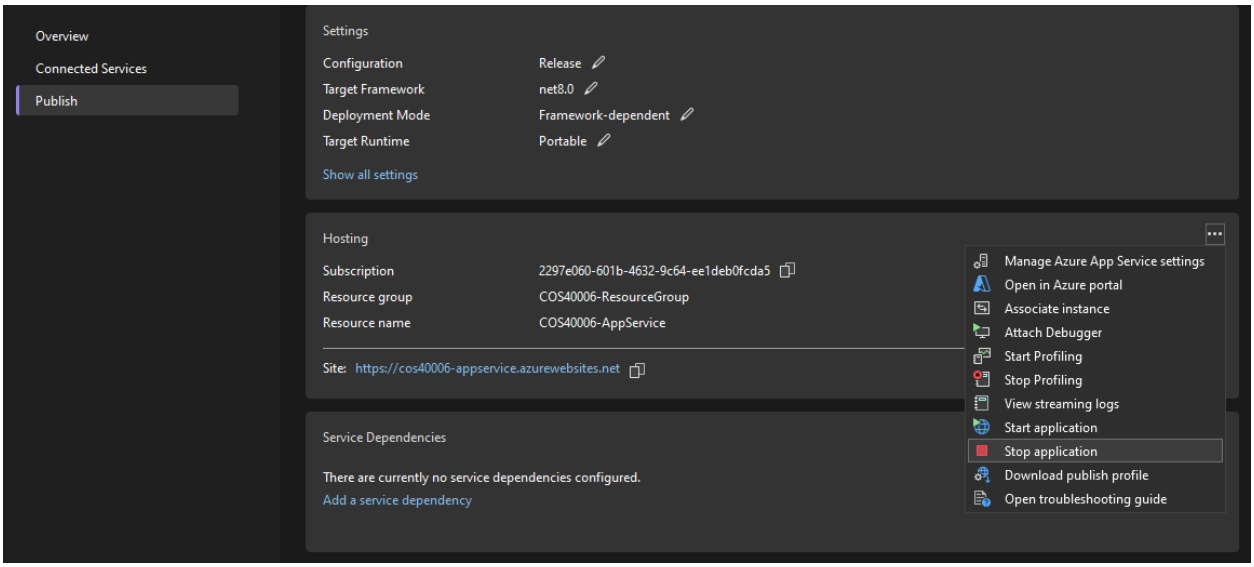
By default the app service deploy a default page by Microsoft, to make the app deploy my own app, click “publish” and wait



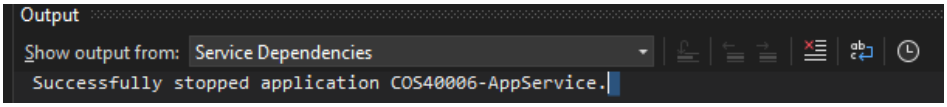
We successfully deployed the ASP.NET Core Web App to Azure App Service using Visual Studio



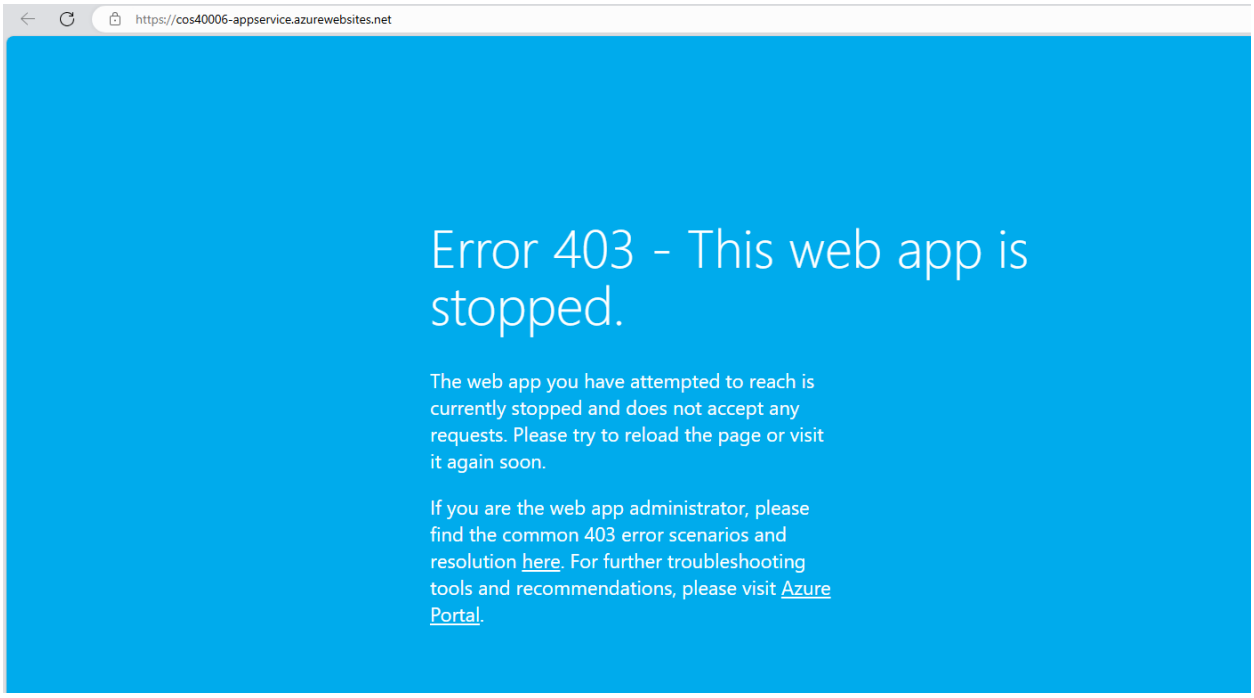
We **deactivate** the service (we cannot achieve similar result by interacting with the Azure console)



Verify that the app has been deactivated



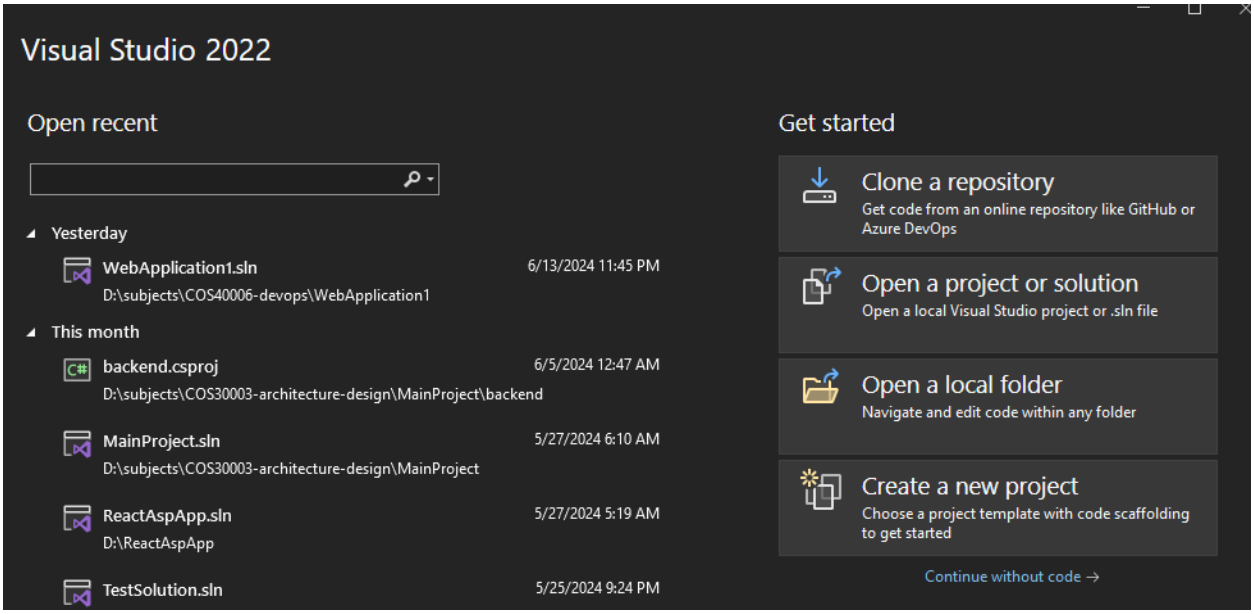
Get back to the same domain url



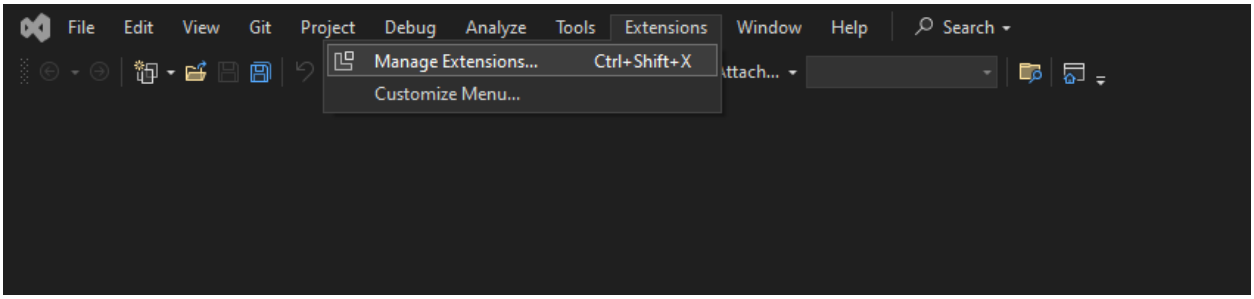
Task 3.2: HD

Install PHP on Visual Studio

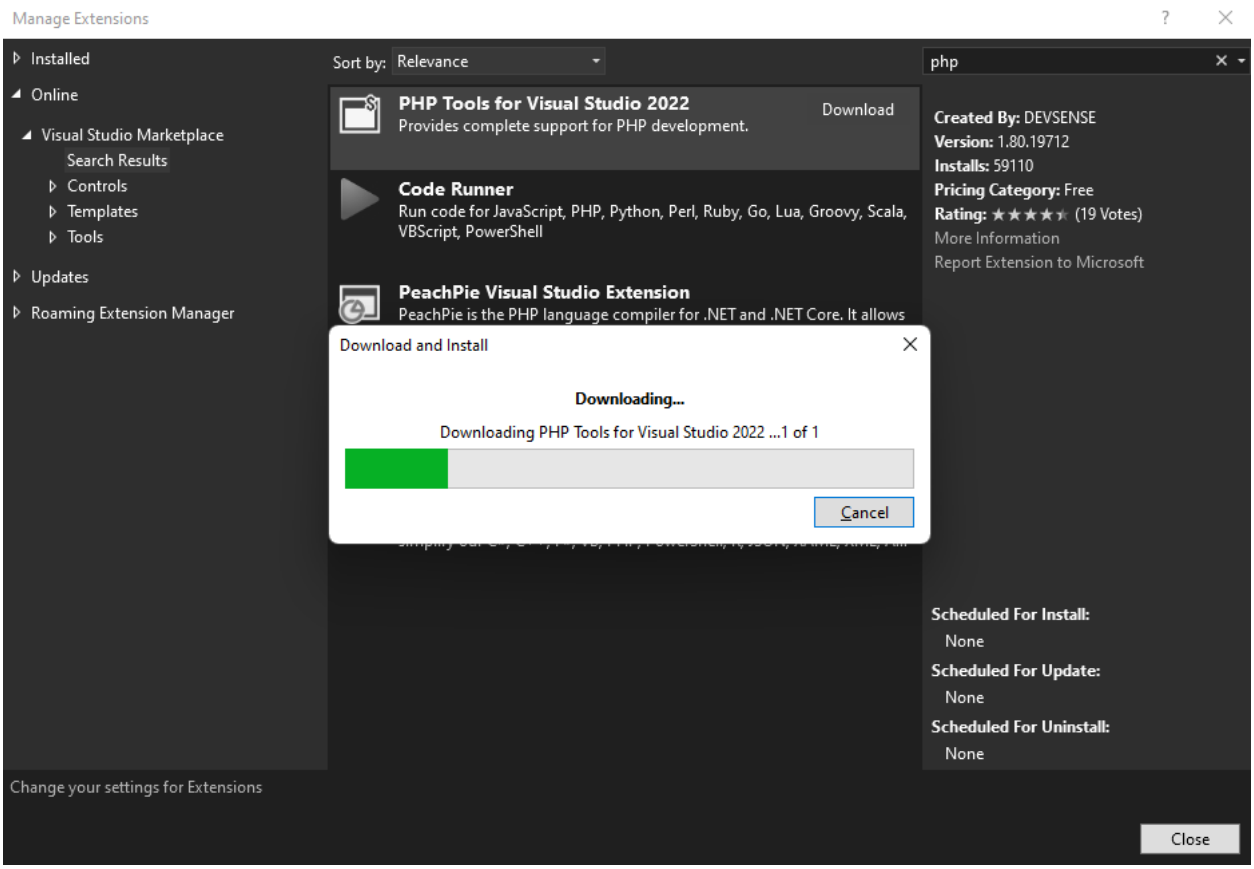
Open Visual Studio, instead of opening an existing project or creating new one, click on “Continue without code”



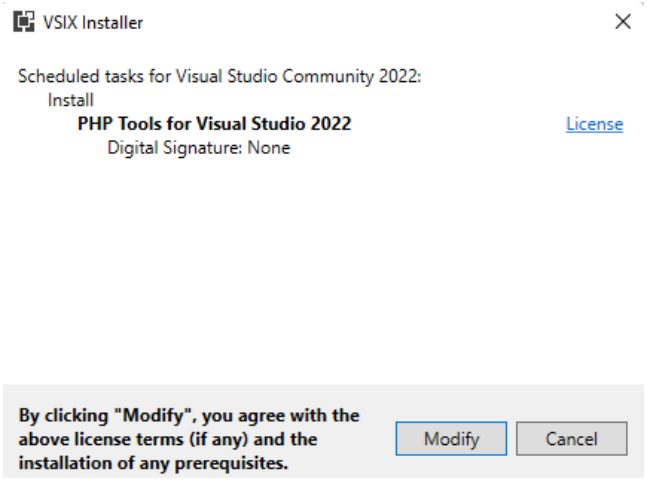
Go to “Extension” → “Manage extension”



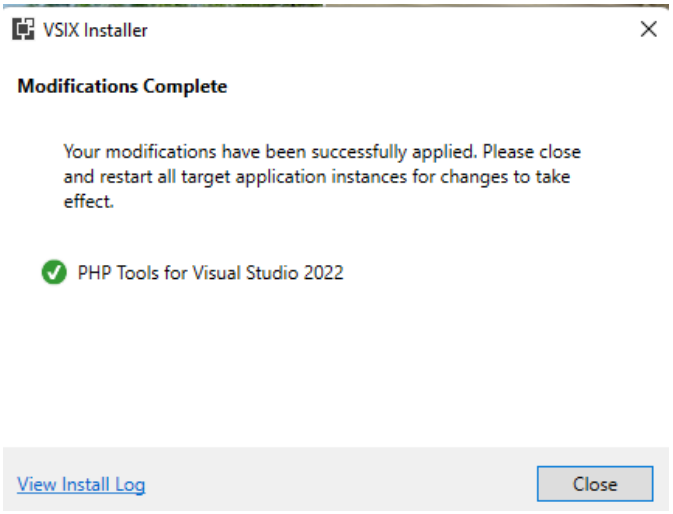
Search for PHP Tools for Visual Studio and install it



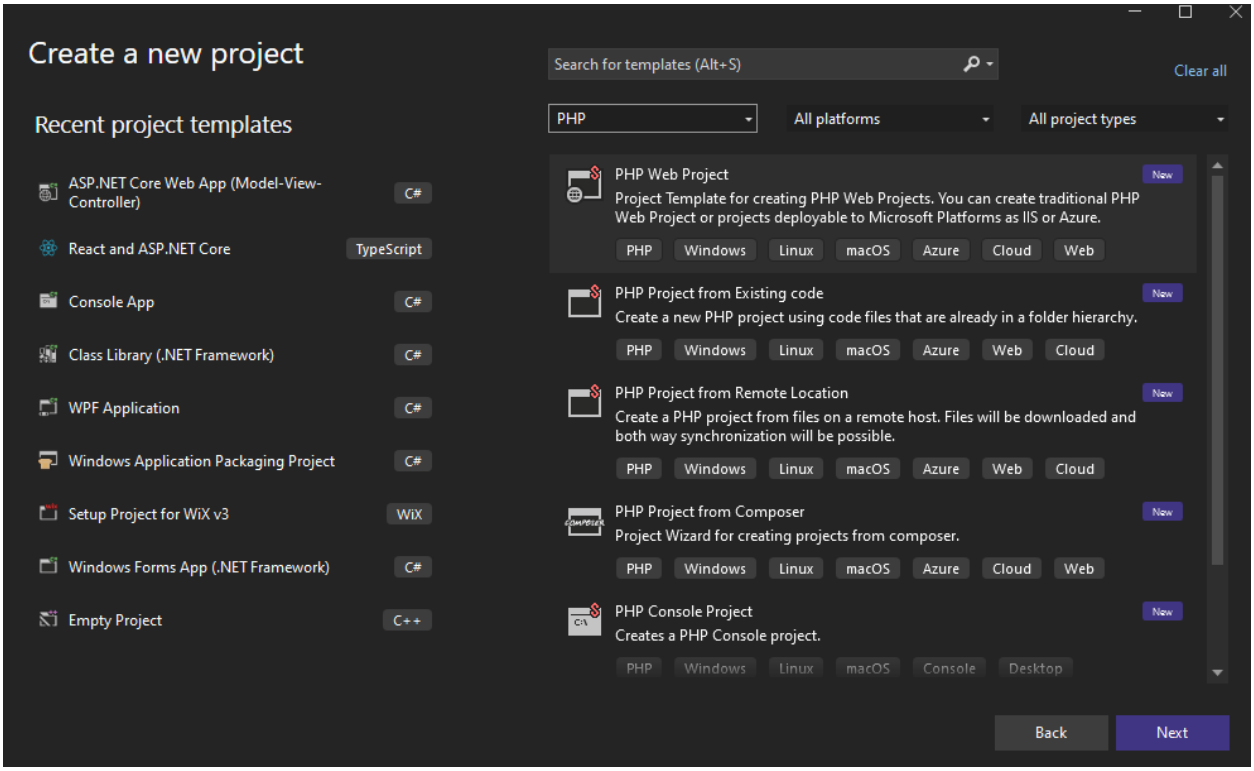
Close Visual Studio window so that the installer can run automatically



Verify success installation

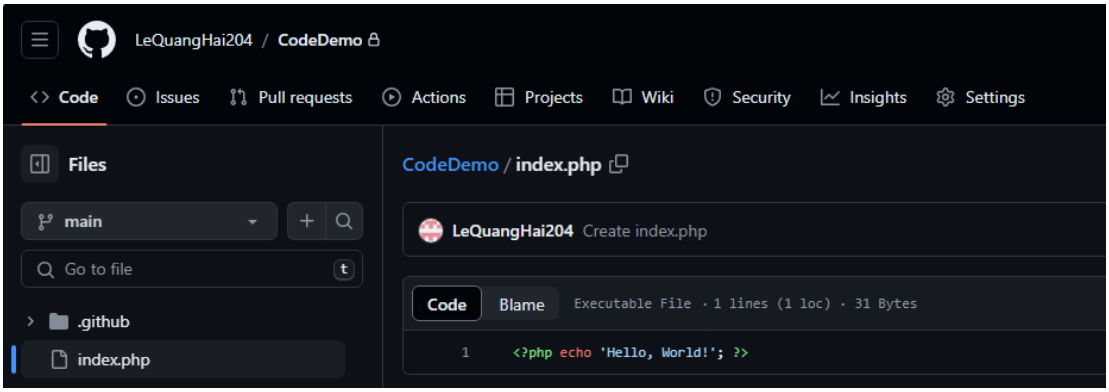


Now we can create a PHP web application in Visual Studio



Develop a web application

We create another GitHub repository with a Hello World code in the index.php file

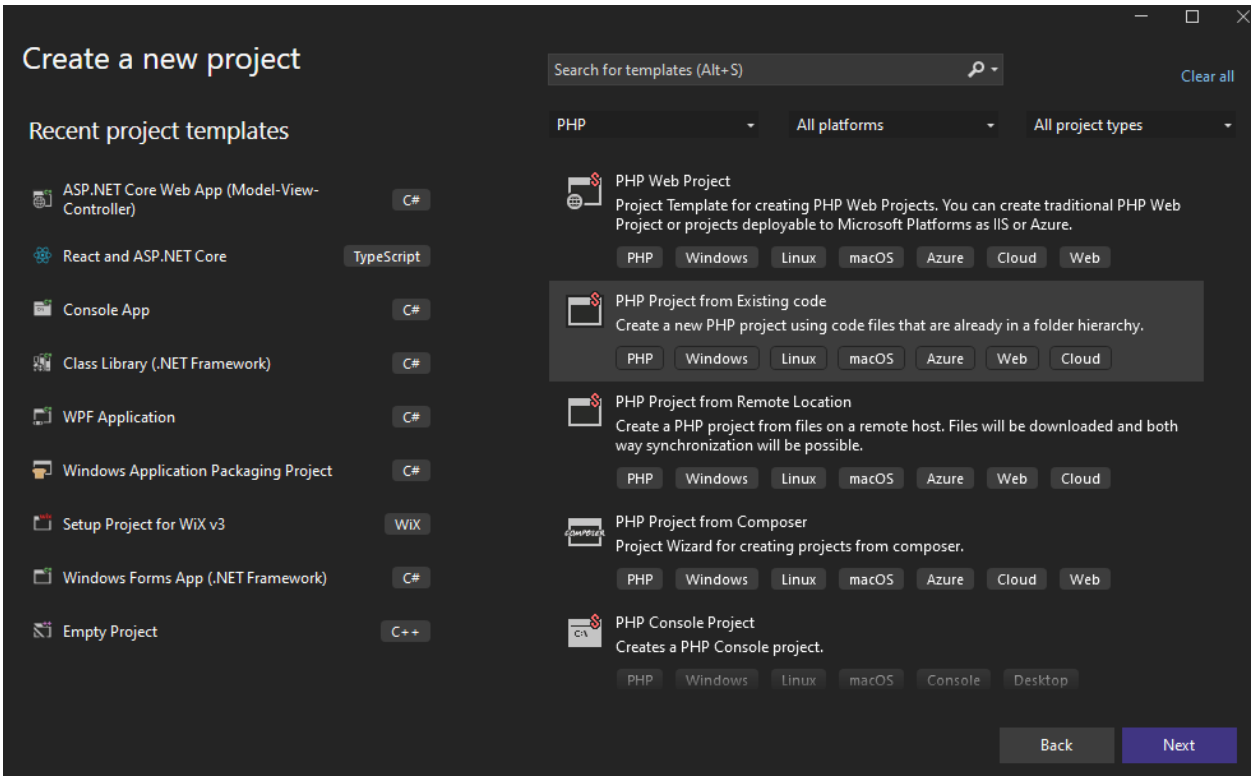


Transfer files to visual studio

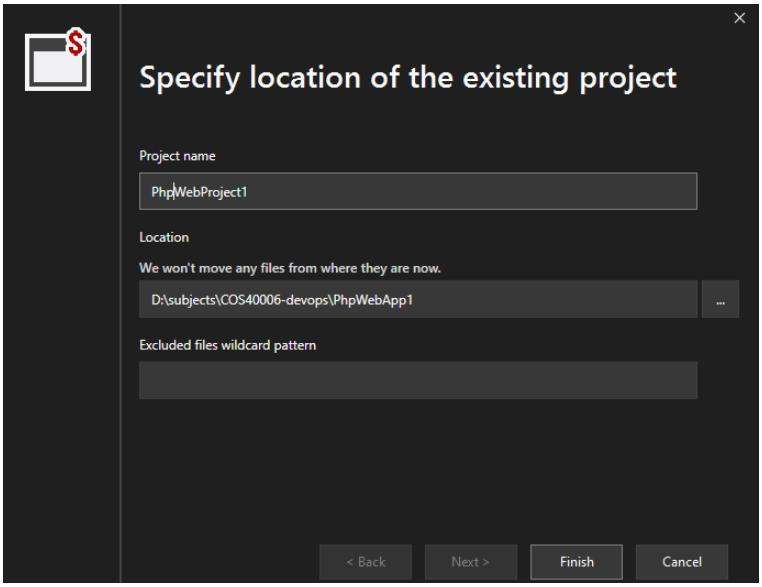
We use git clone command to obtain the code from the GitHub repository created above to our local folder

```
PS D:\subjects\COS40006-devops> git clone https://github.com/LeQuangHai204/CodeDemo.git PhpWebApp1
Cloning into 'PhpWebApp1'...
remote: Enumerating objects: 23, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 23 (delta 5), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (23/23), 4.88 KiB | 500.00 KiB/s, done.
Resolving deltas: 100% (5/5), done.
```

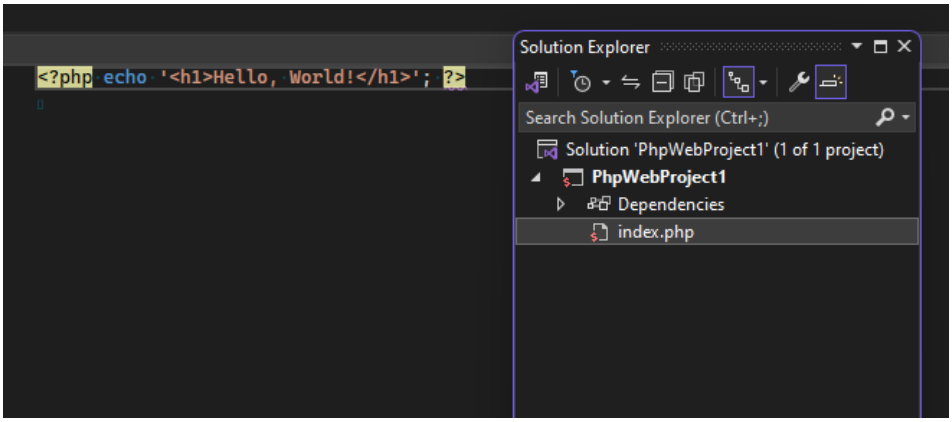
Open Visual Studio, click “Create new project” → “PHP project from existing code”



We specify location of the code we have just cloned from remote

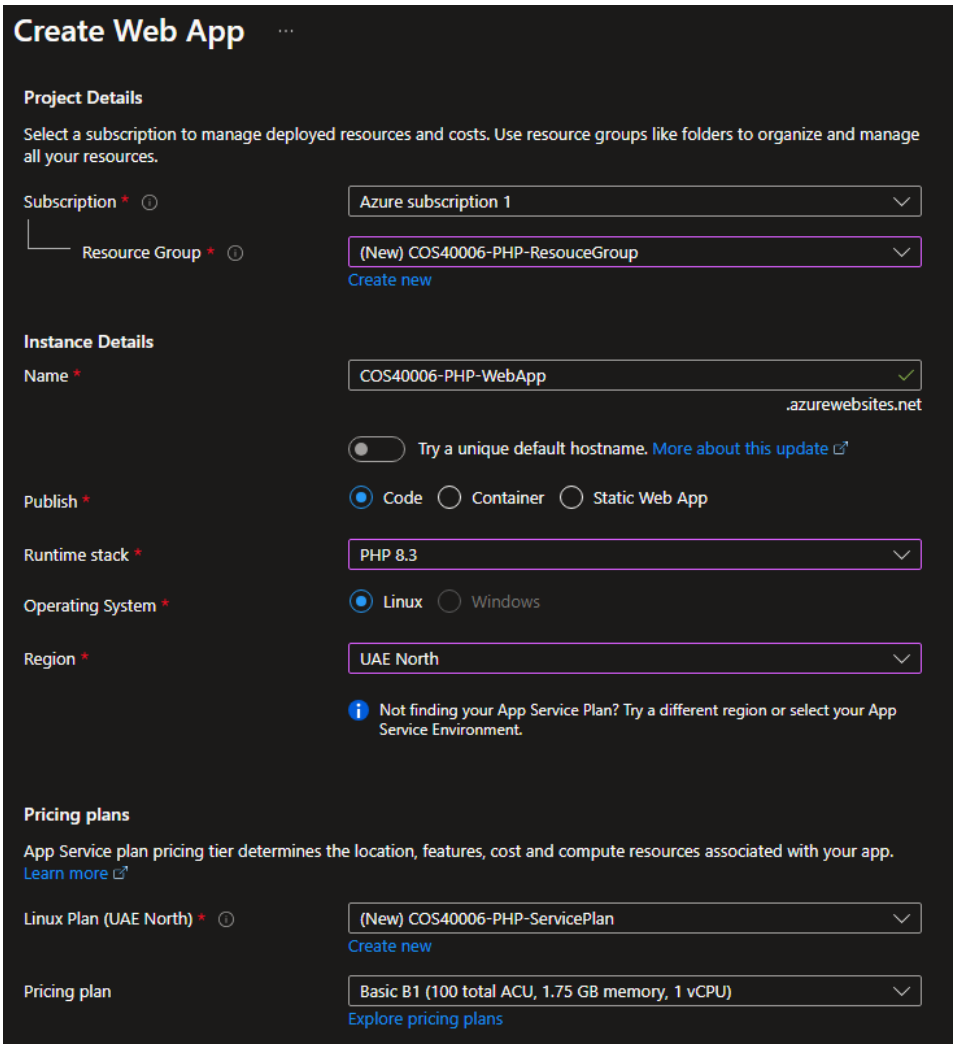


We have successfully created a PHP from the pre-created PHP project

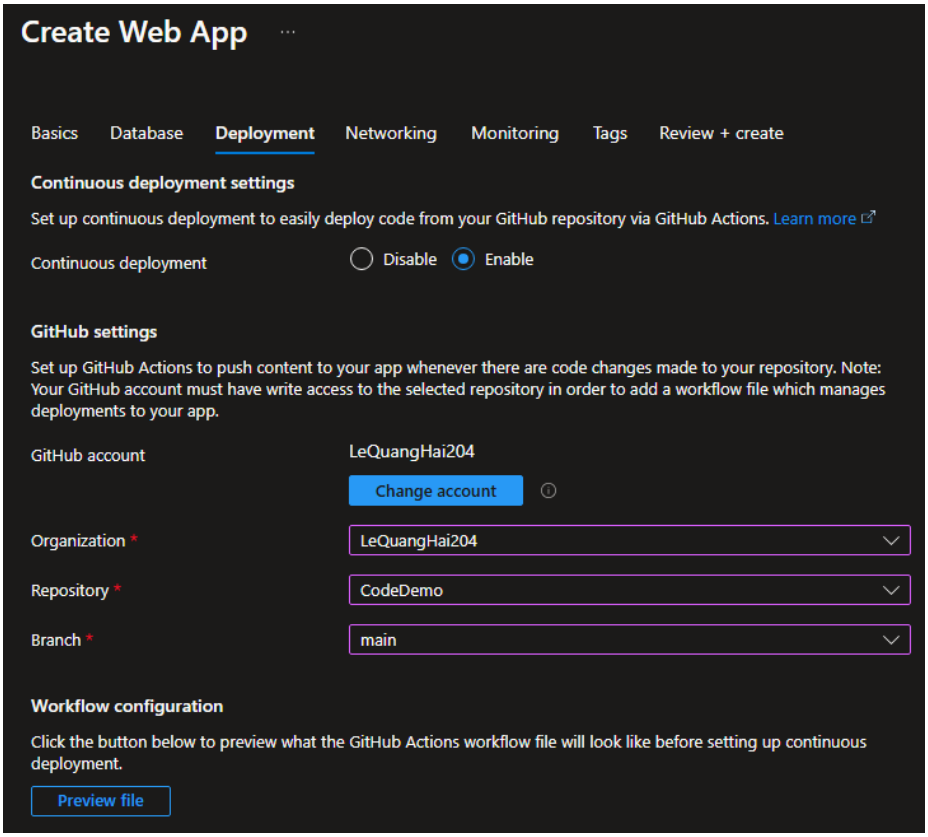


Deploy app to cloud via Azure

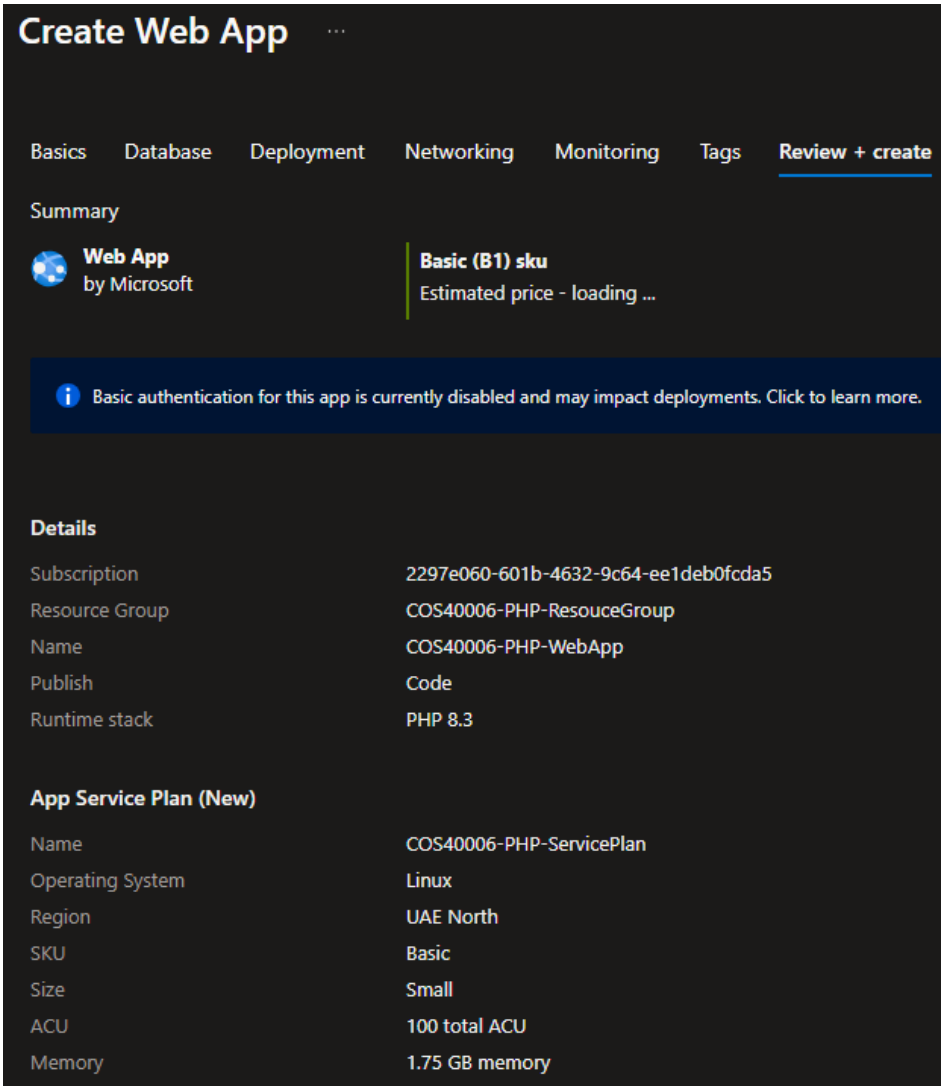
Go to Azure console and create another new Web App, this time select PHP 8.3 for run-time environment



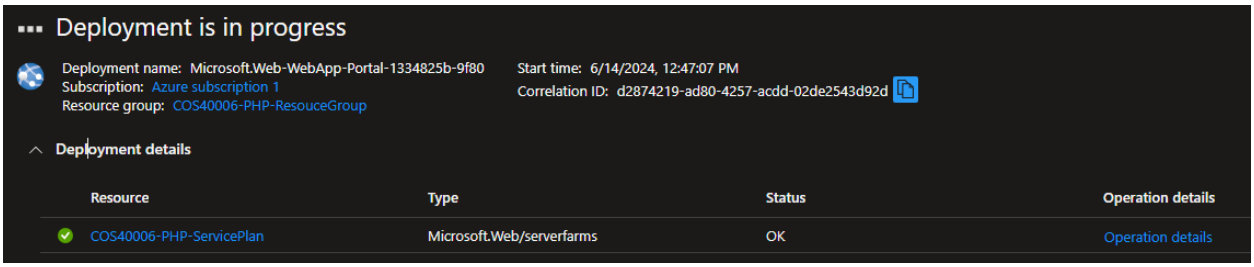
Select the deployment GitHub settings



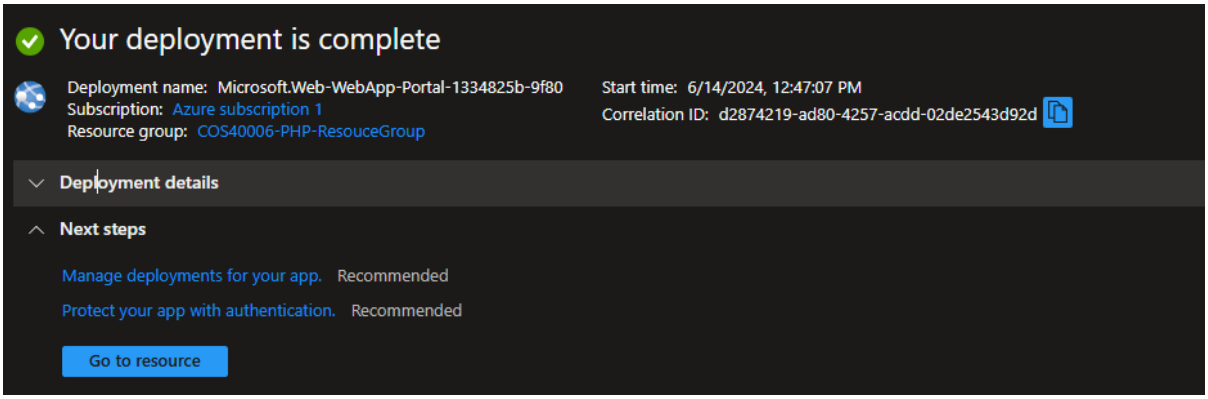
Review setup before creation

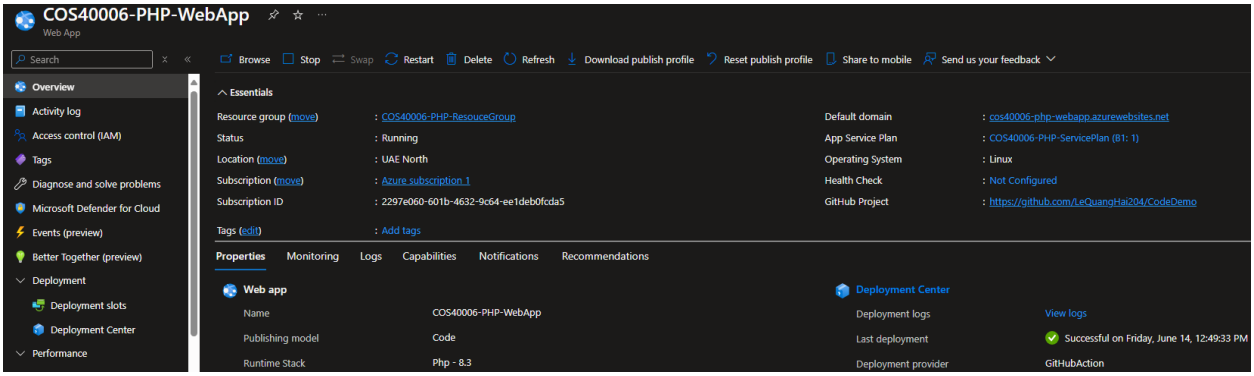


Waiting for the auto-deployment



Deployment succeeds





Navigate to the domain to enter the PHP page