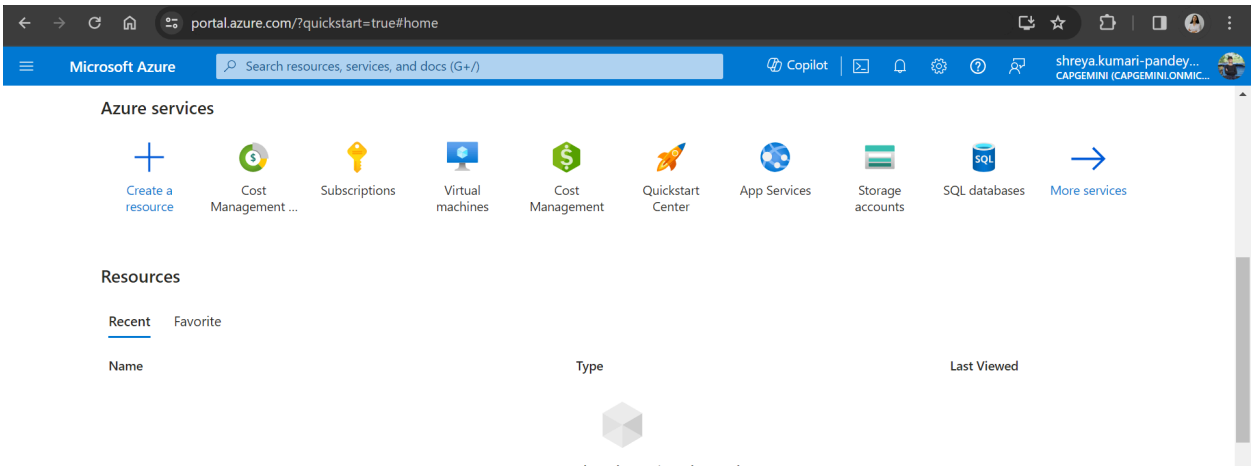
Deploying an Online Doctor's Clinic Application on Cloud

This section will guide you to deploy an application on: Azure

Step 1: Log into the Azure portal

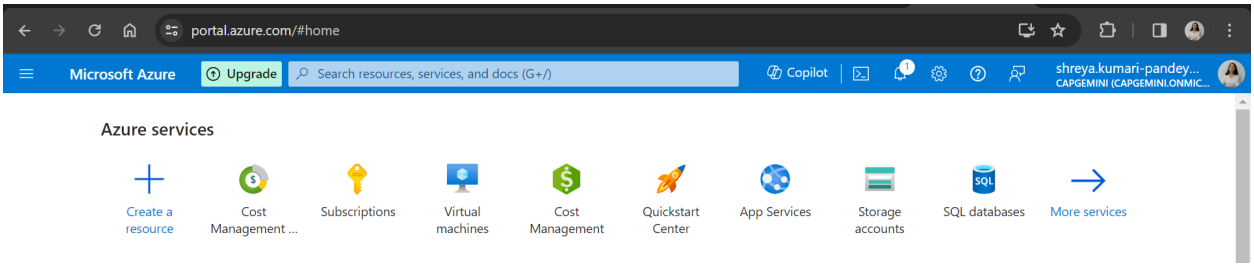


Step 2: Before creating the resources, make sure you apply tags to resources so that you can keep a track of billing later.

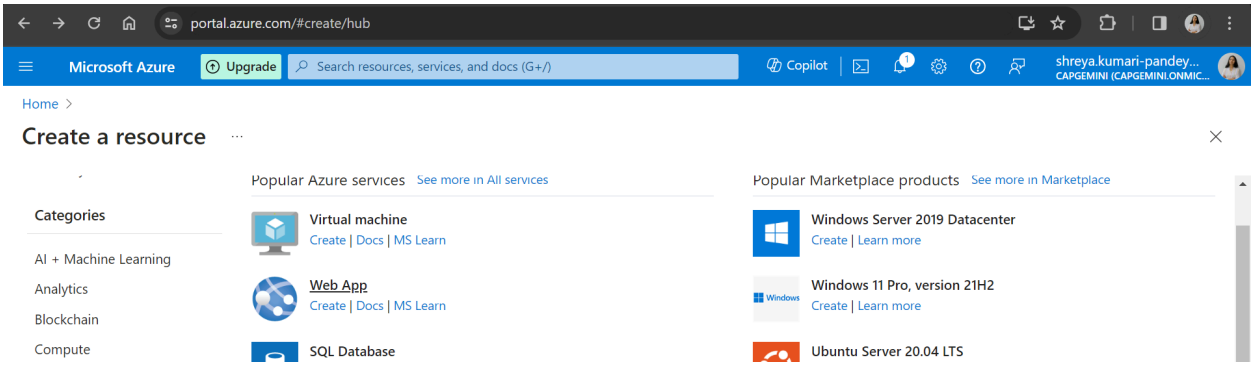
Step 3: To begin, create an Azure App Service Plan in Standard Tier

Step 4: Create an App Service (Web App) using the App Service Plan that you just created

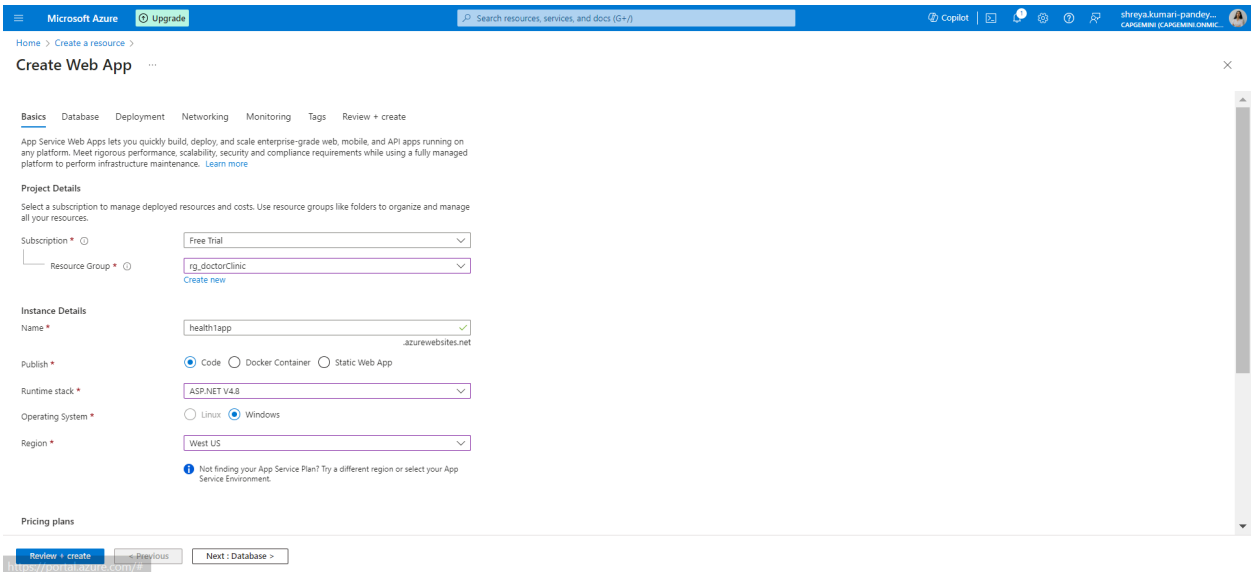
Step 4.1: Click on **Create a resource**

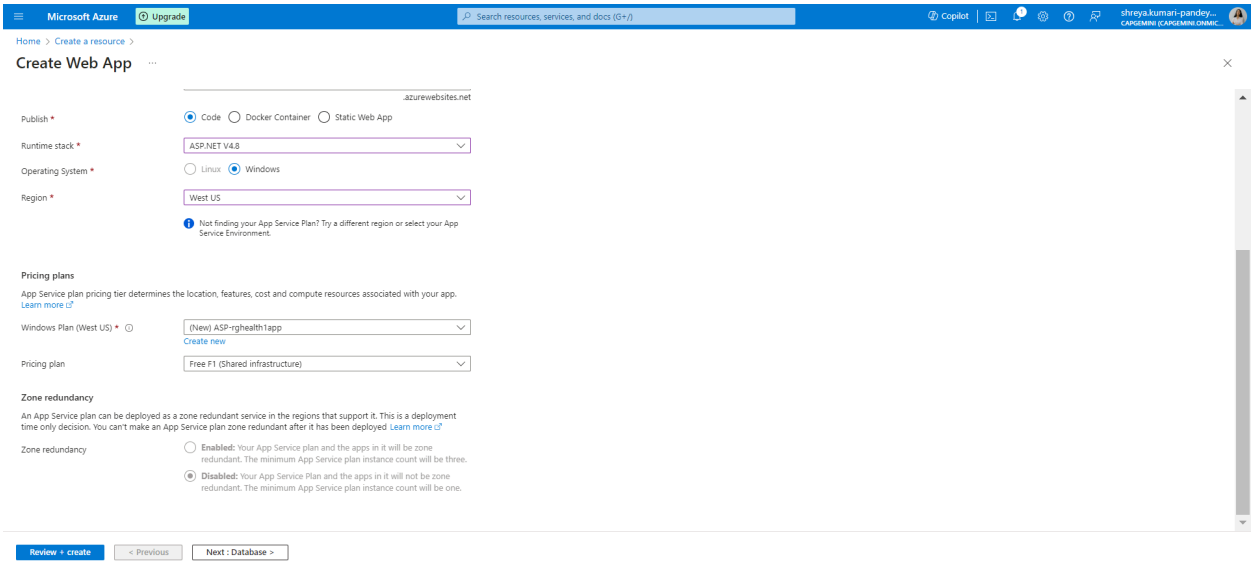


Step 4.2: Search for Web App and click on **Create**



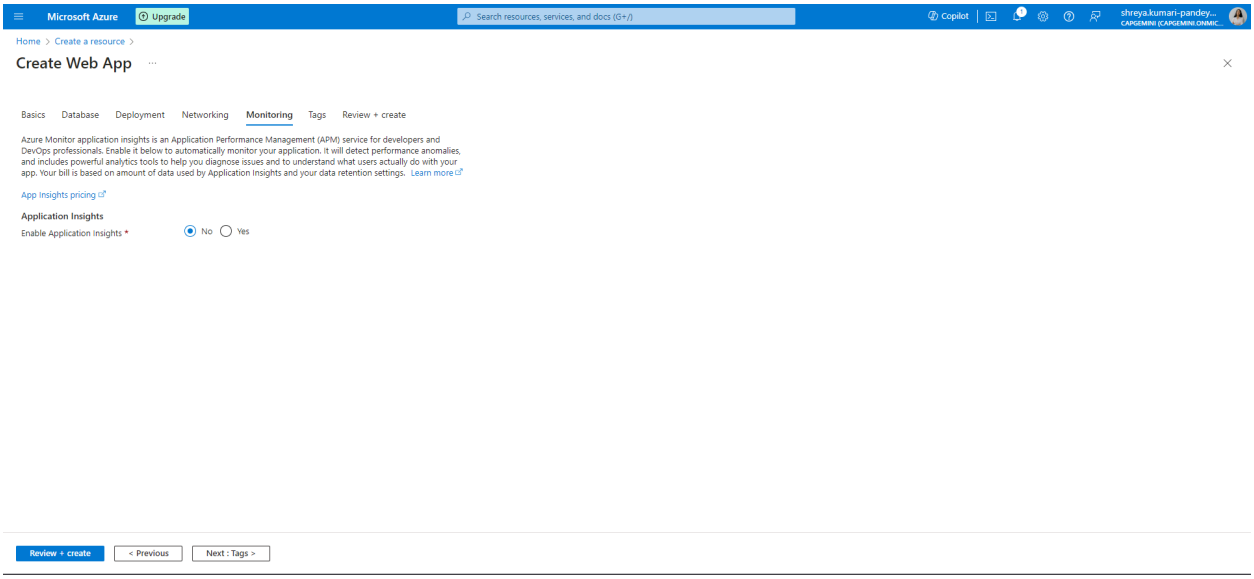
Step 4.3: Provide the basic information for the application





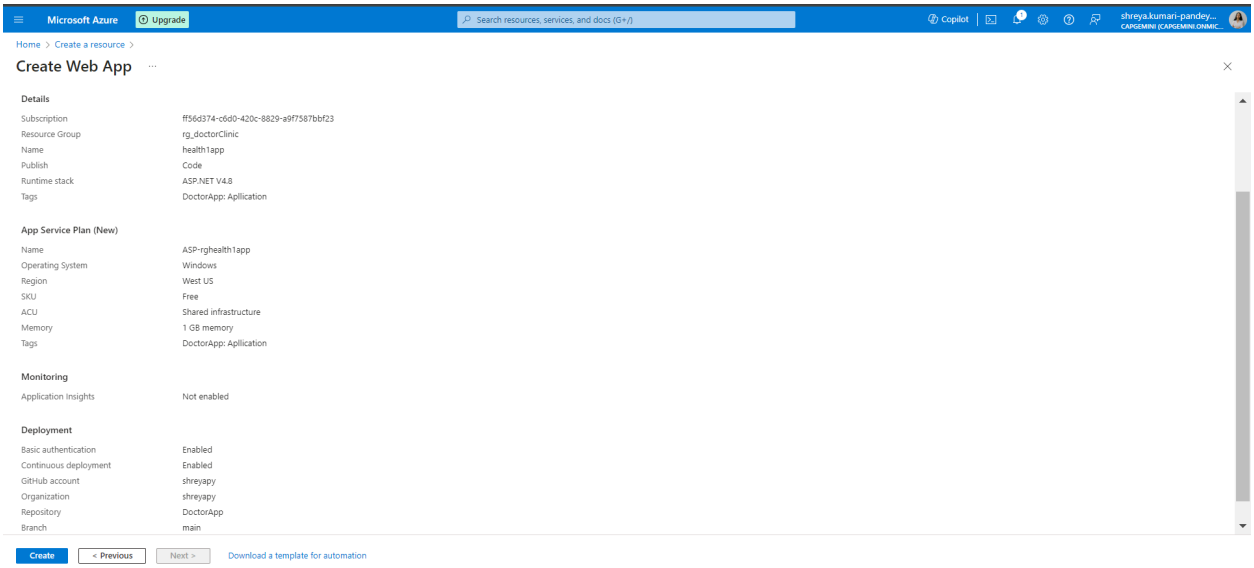
Note: Choose the runtime stack as ASP.NET V4.7 and the region as West US or West US 2

Step 4.4: In the Monitoring section, select **No** for **Enable Application Insights**

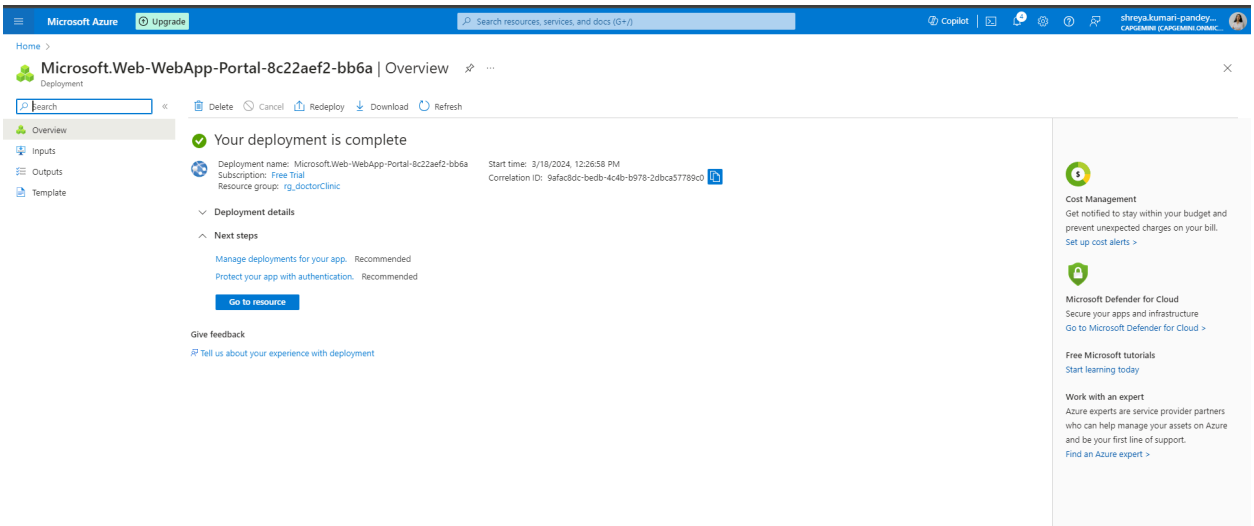


Step 4.5: Click on **Review and Create**

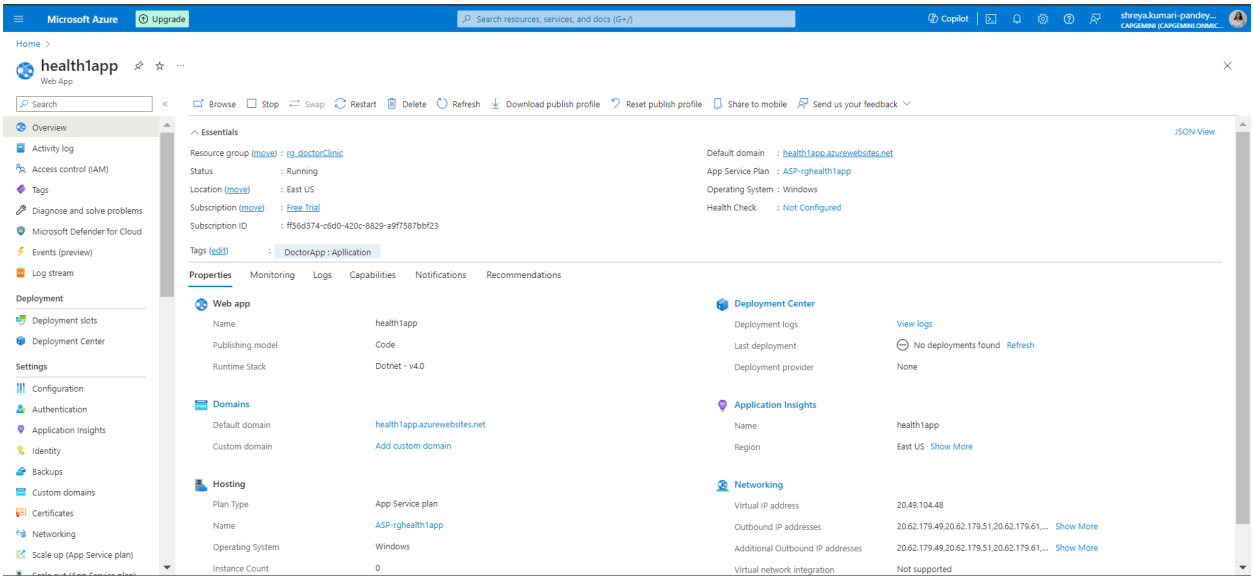
Step 4.6: Click on **Create**



Step 4.7: This will create the Web App on Azure

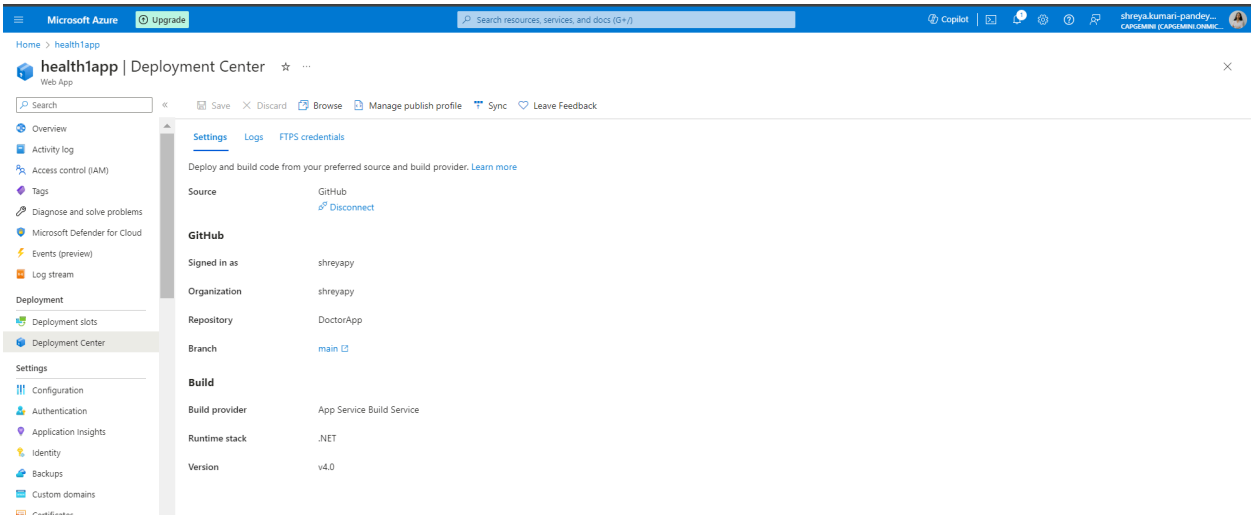


Step 4.8: You can click on **Go to resource** to get the overview of the created web app.



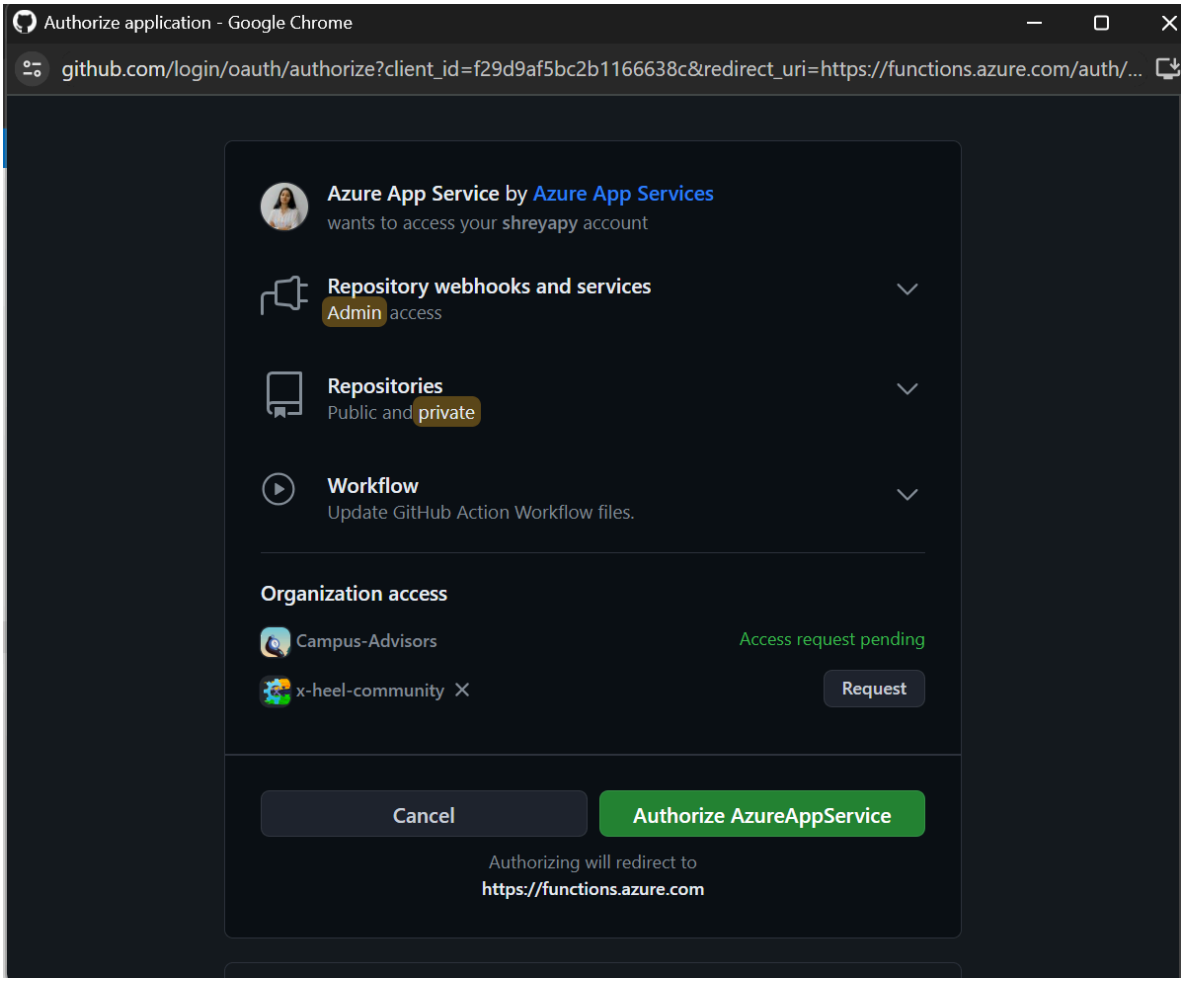
Step 5: Deploy your static web app to Azure App Service (Web App) using a method of your choice such as Visual Studio Code, GitHub, or FTP.

Step 5.1: Go to the **Deployment Center**

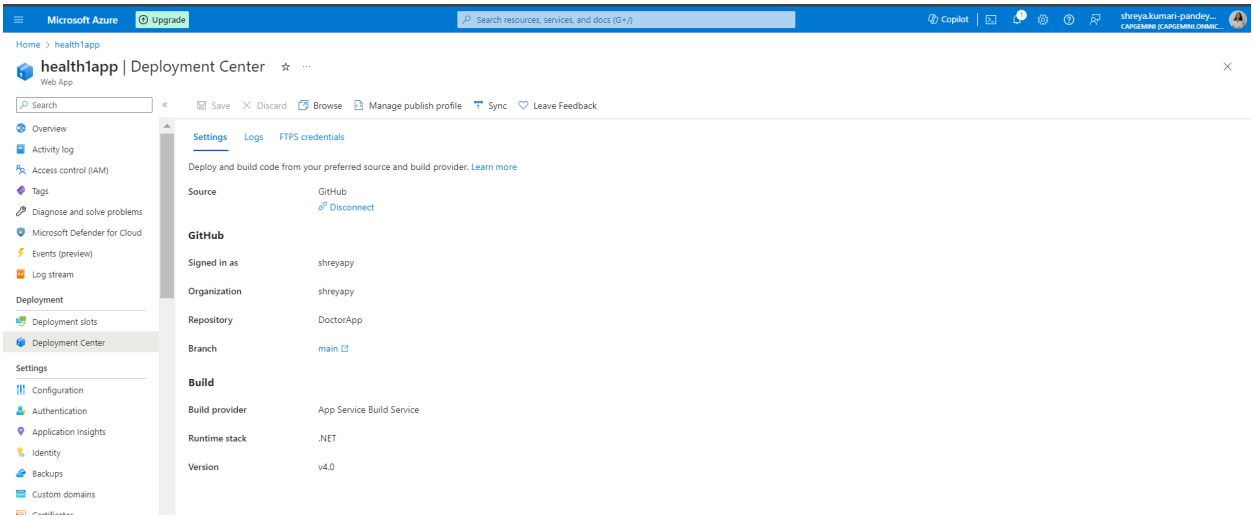


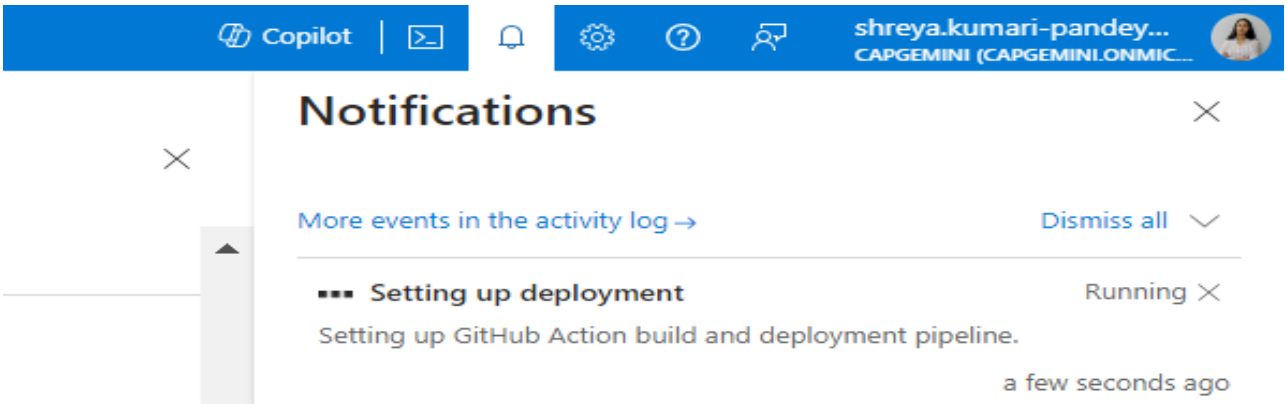
Step 5.2: Select GitHub

Step 5.3: Authorize your account

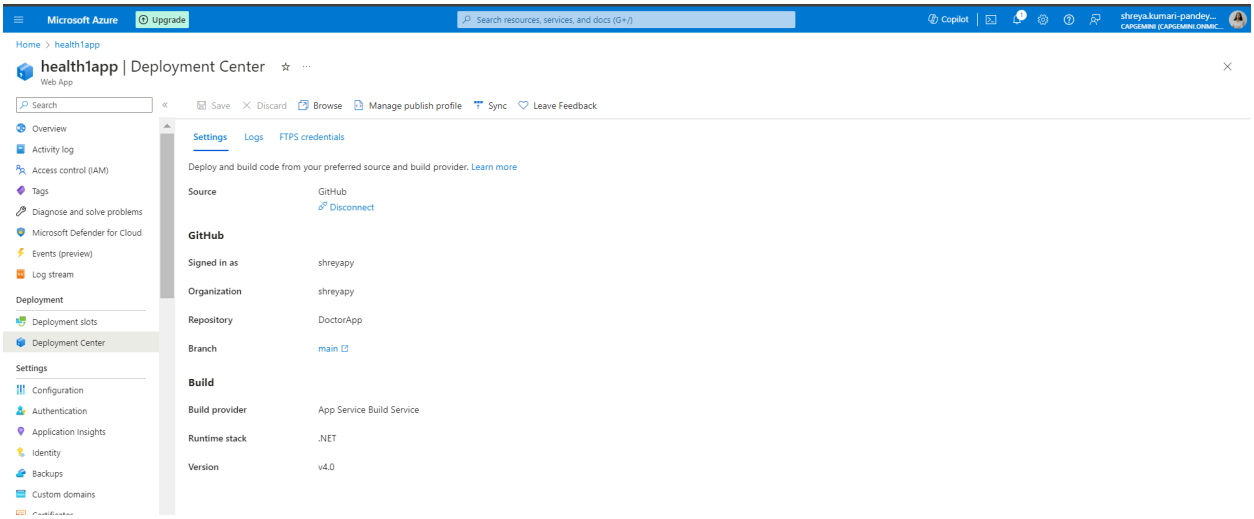


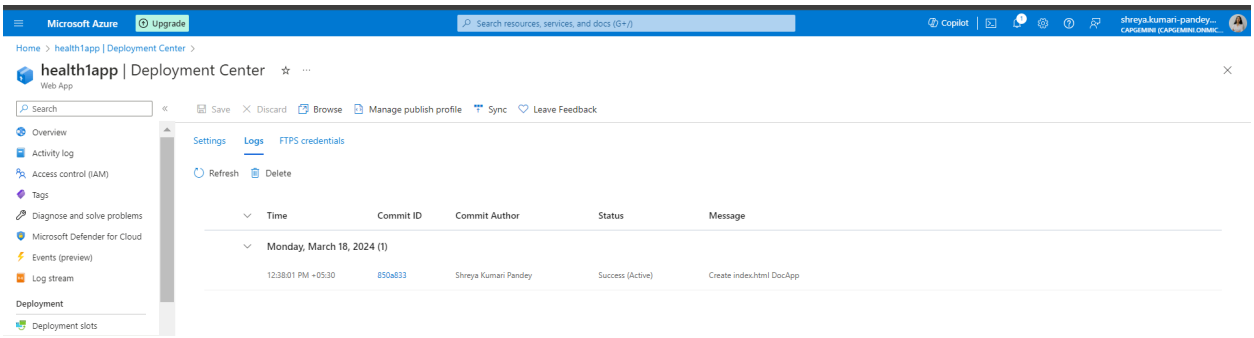
Step 5.4: Select the application files uploaded on GitHub and click on **Continue**





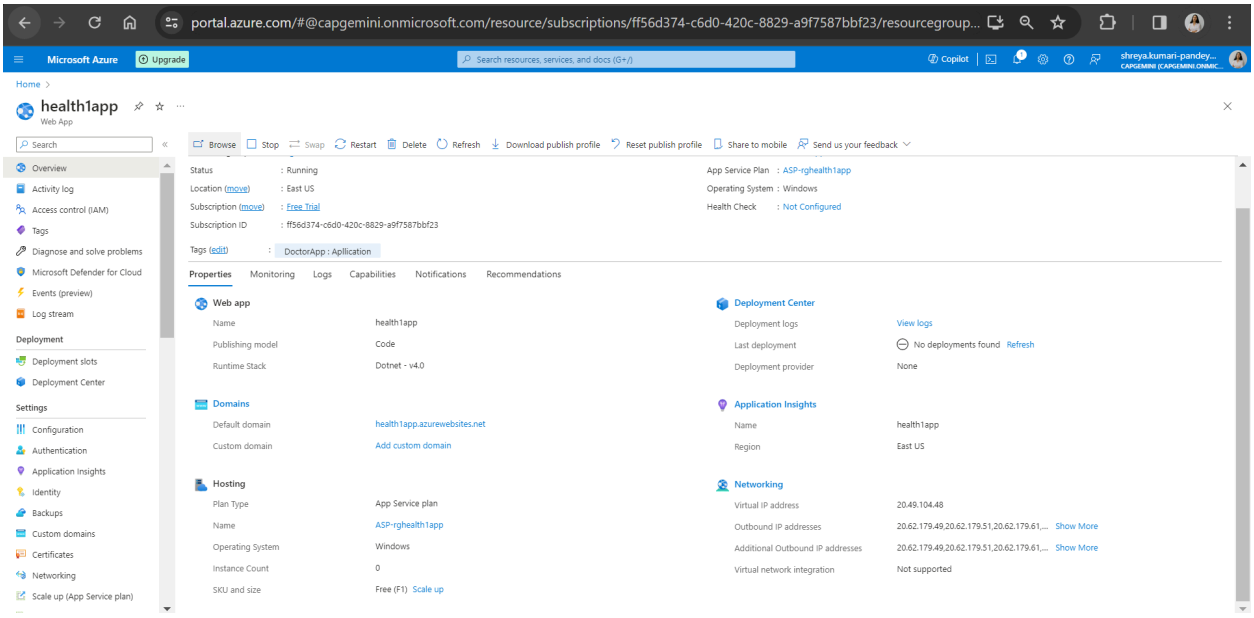
Step 5.5: Click on **Finish**



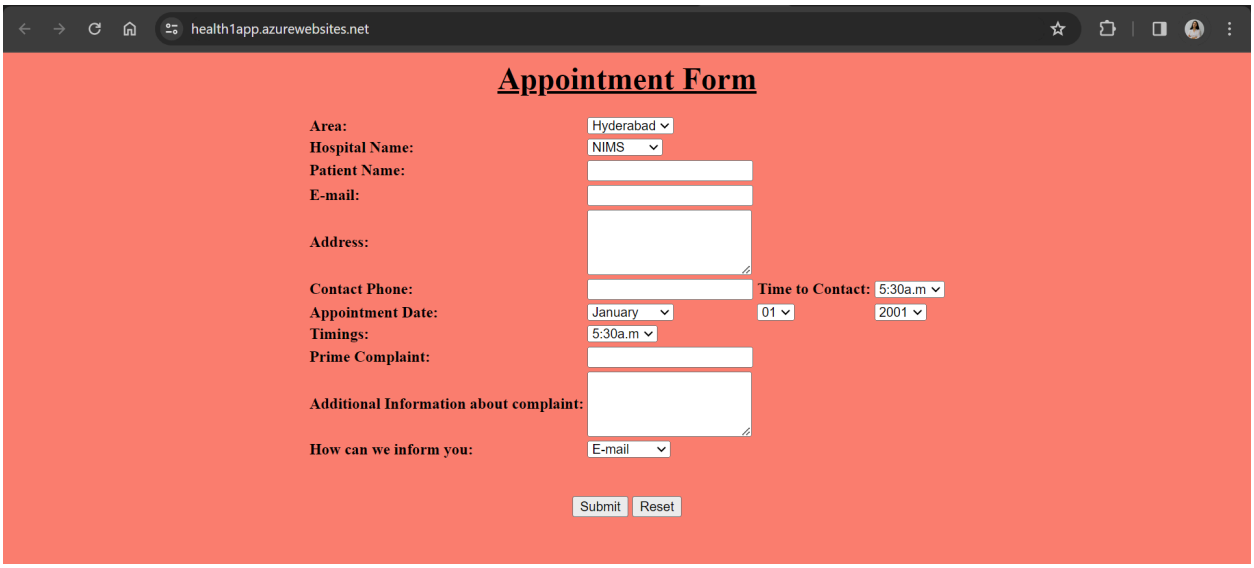


Step 6: Hit the web app endpoint to check if the application is online

Step 6.1: Click on Overview of the web app

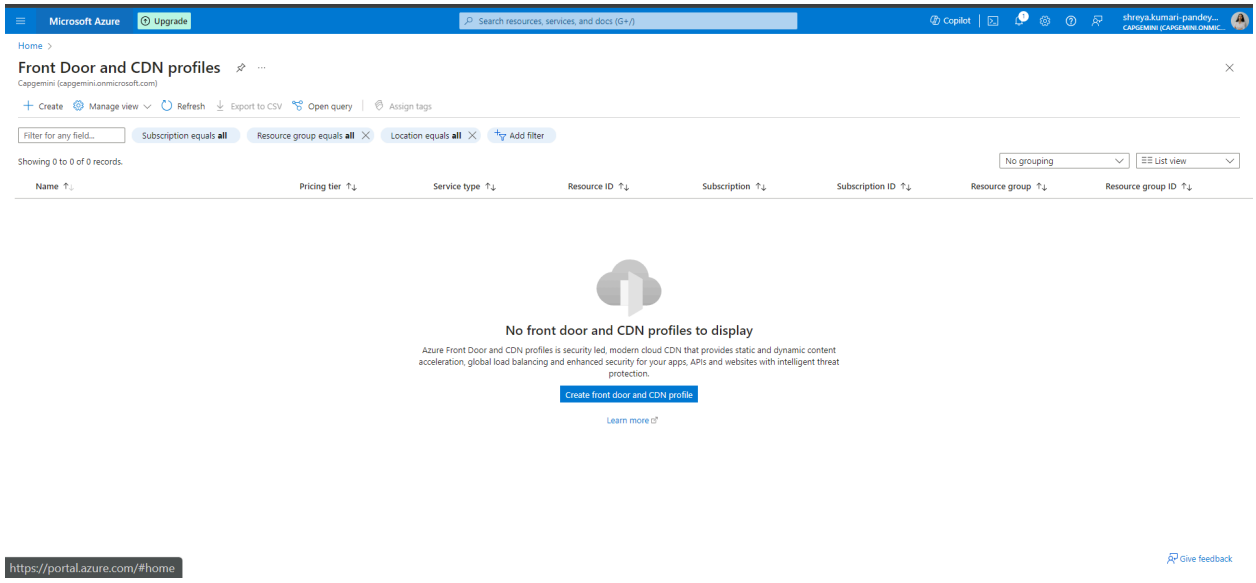


Step 6.2: Click on the URL and you will get the application running

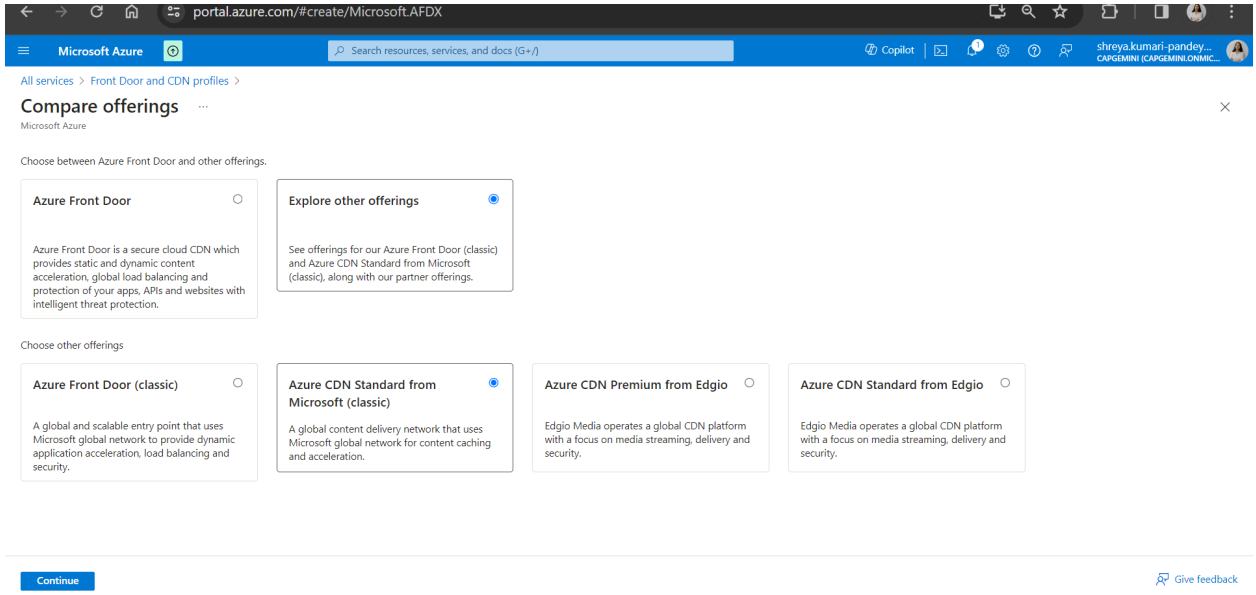


Step 7: Now create a CDN profile.

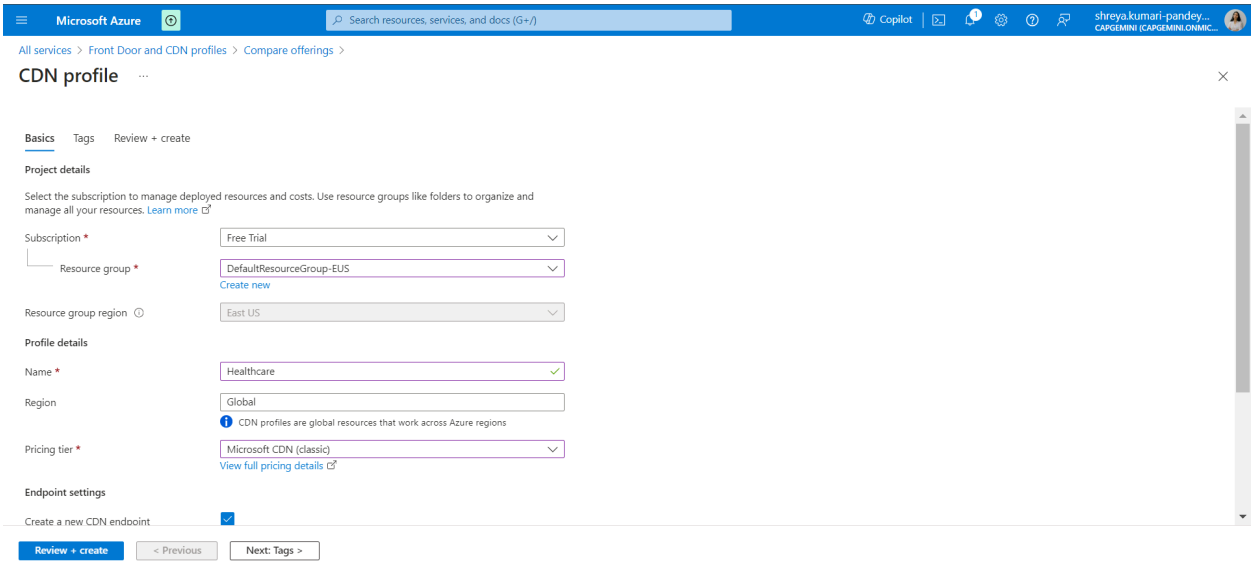
Step 7.1: In the search window, search for CDN profiles



Step 7.2: Click on **Add**



Step 7.3: Provide the information to create the CDN and click on **Create**

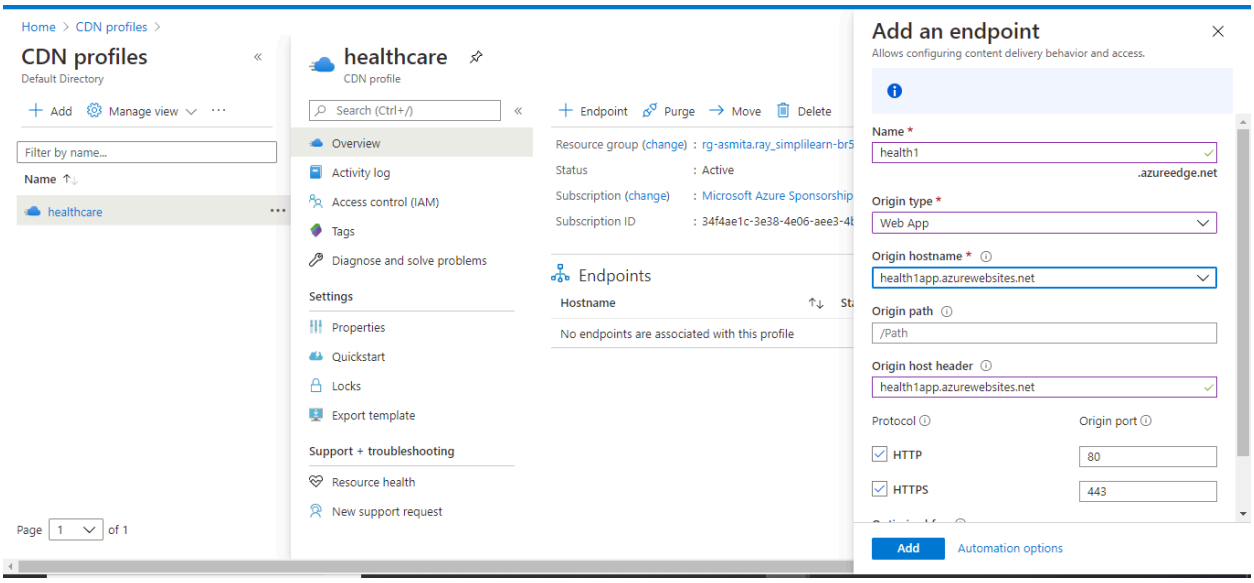


Step 8: Use CDN profile to create an endpoint.

Step 8.1: Go to the created CDN

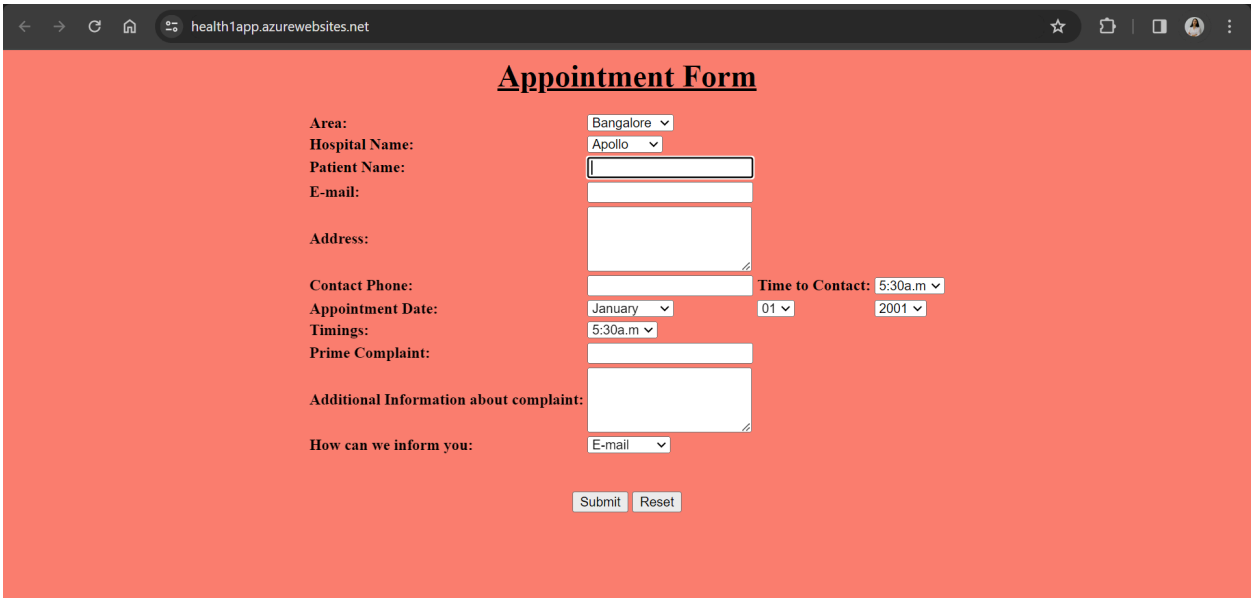
Step 8.2: Click on **Endpoint**

Step 8.3: Provide the basic information about the endpoint and click on **Add**



Step 8.4: Go to the created CDN endpoint and click on **Origin hostname.**

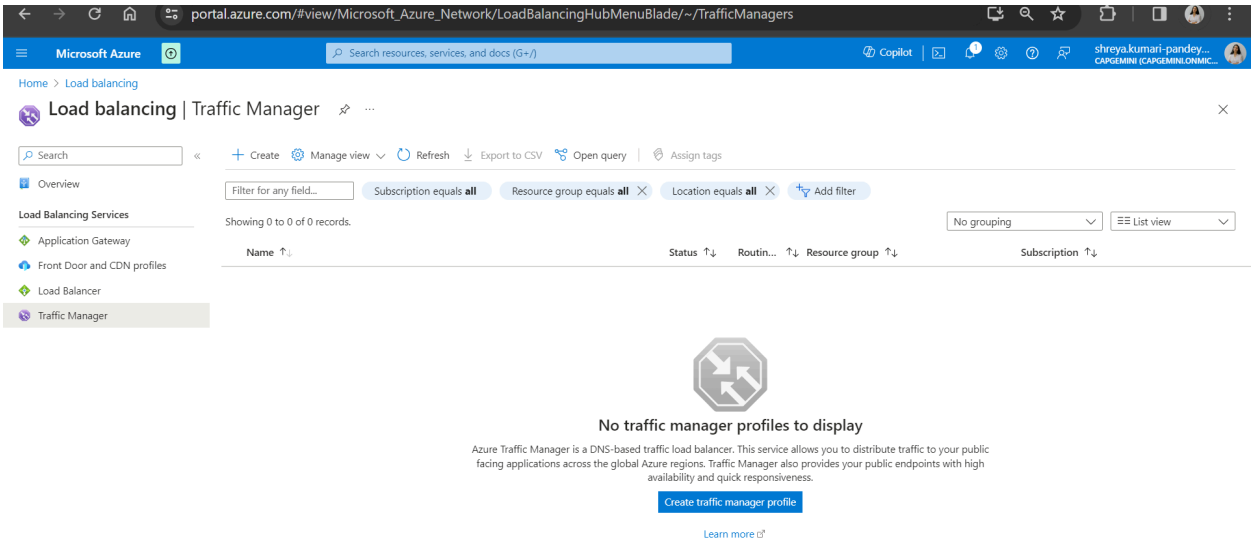
Step 8.5 Your application is running.



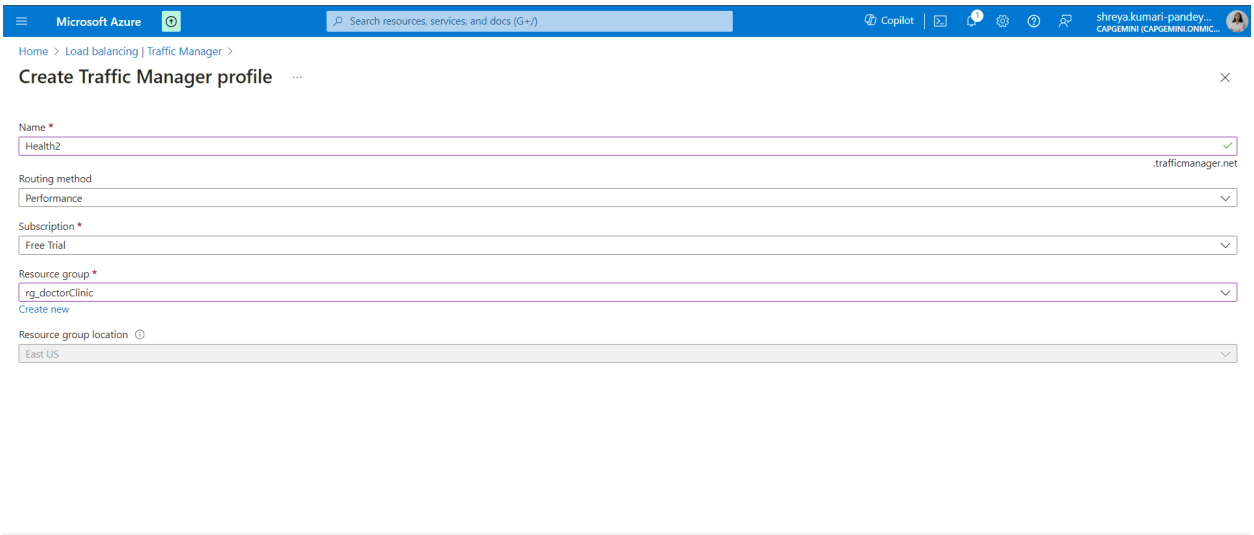
Step 9: Repeat steps 2 to 7 to create multiple deployments of your application in different regions so that you can meet the global traffic demand.

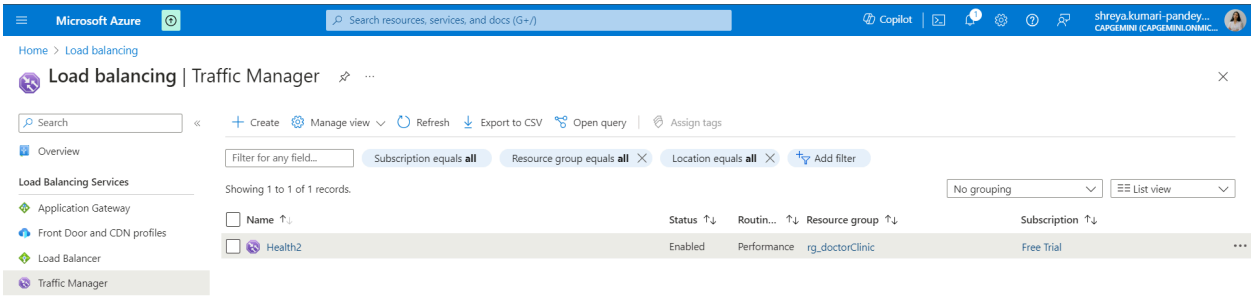
Step 10: To make sure that traffic coming from different parts of the world is load balanced at DNS level, create a Traffic Manager Profile

Step 10.1: In the search window, search for Traffic Manager Profile and click on **Add** to create a new traffic manager profile.



Step 10.2: Provide the required information and click on **Create** to create the Traffic Manager Profile



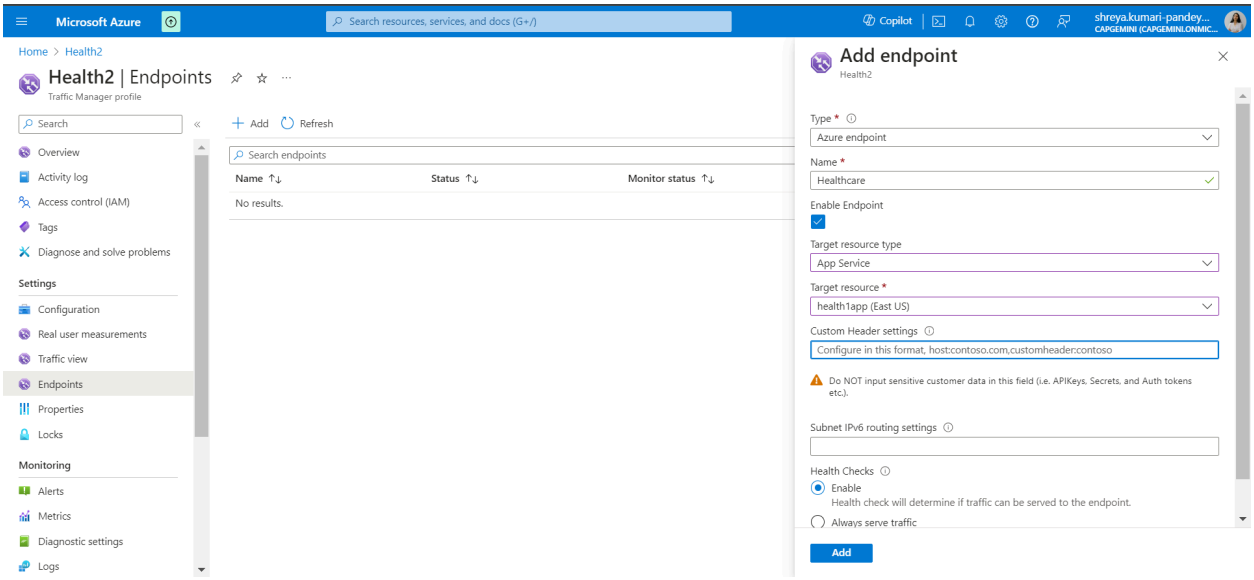


Step 11: Create endpoints in the traffic manager corresponding to each CDN endpoints that you have created.

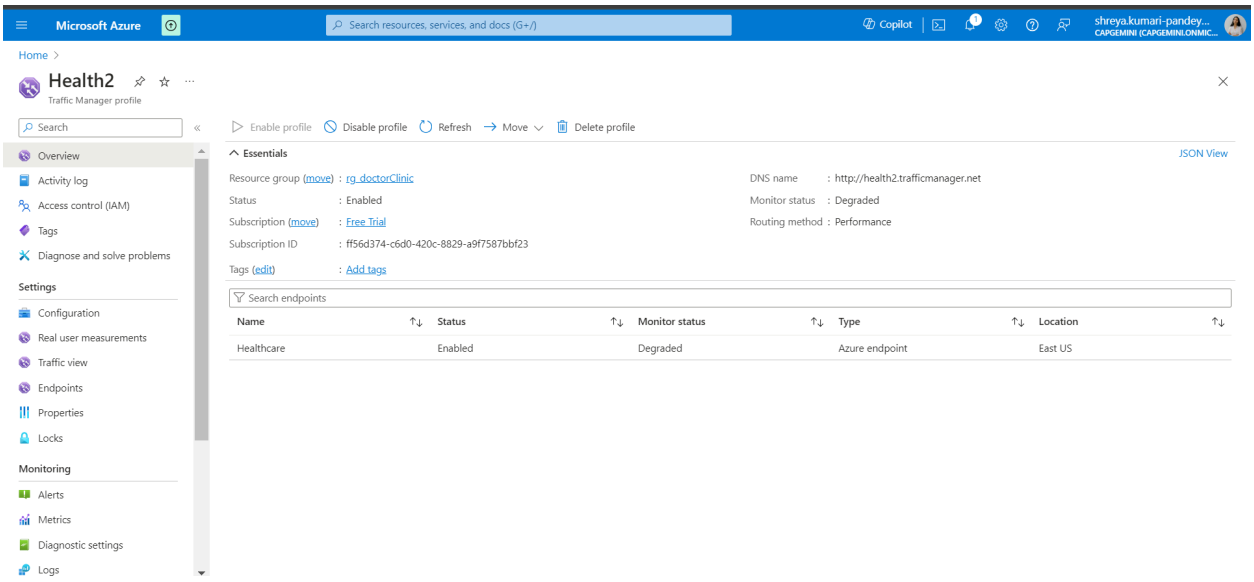
Step 11.1: Go to the created Traffic Manager Profile

Step 11.2: Click on **Endpoints**. Click on **Add** to add new endpoints.

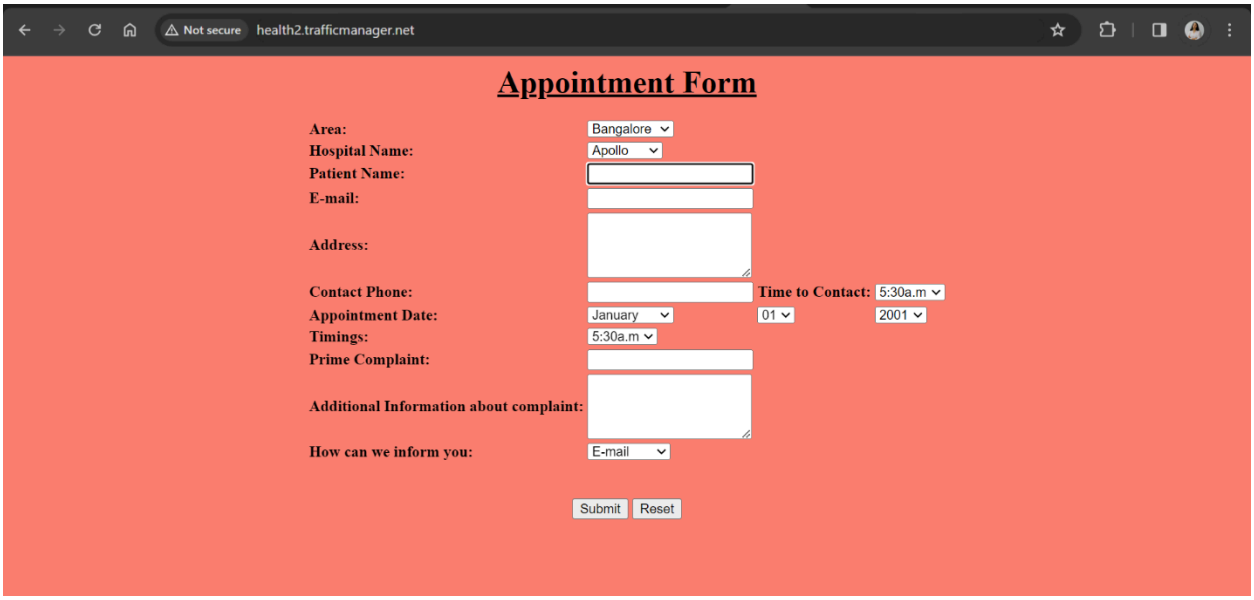
Step 11.3: Provide the required information and click on **Add.**



Step 11.4: Once the monitor status is online, copy the link of the DNS name and check whether the application is online or not.



Your application is running.



Step 12: Optionally, if you want to add the application in your own domain, you can configure the traffic manager to point to a custom domain.

Step 13: As good practice, follow the principle of least privilege so that you give access to the services that need to be accessed within the Azure portal.