Final Project

How To Publish Your Web App?

To publish your web app, you must first create and configure a new App Service that you can publish your app to.

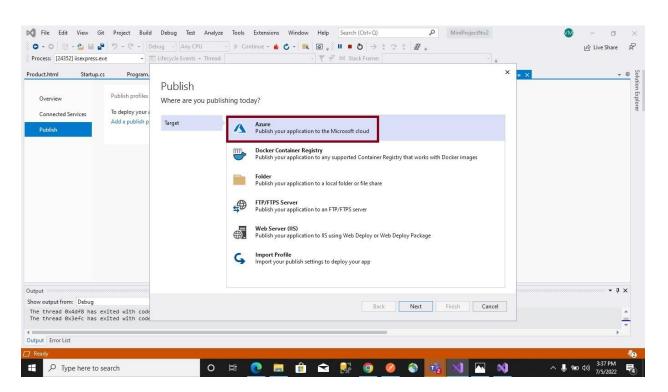
As part of setting up the App Service, you'll create

A new resource group to contain all of the Azure resources for the service.

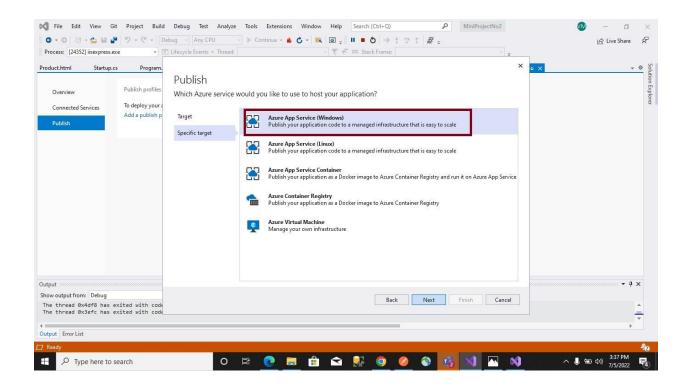
A new Hosting Plan that specifies the location, size, and features of the web server farm that hosts your app.

Follow these steps to create your App Service resources and publish your project.

- 1. In Solution Explorer, right-click the MyFirstAzureWebApp project and select Publish.
- 2. In Publish, select Azure and then Next.

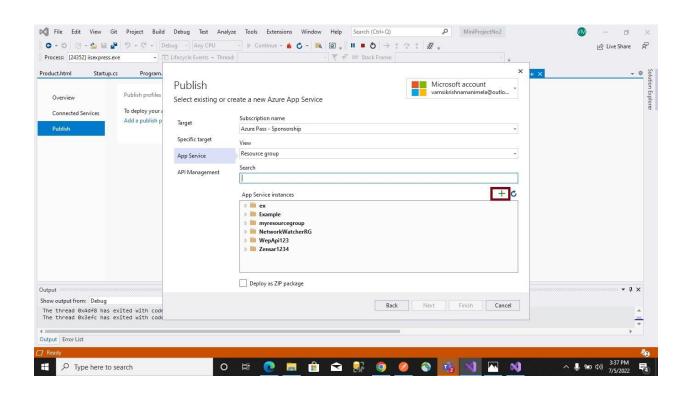


3. Choose the Specific target, either Azure App Service (Linux) or Azure App Service (Windows). Then, select Next.

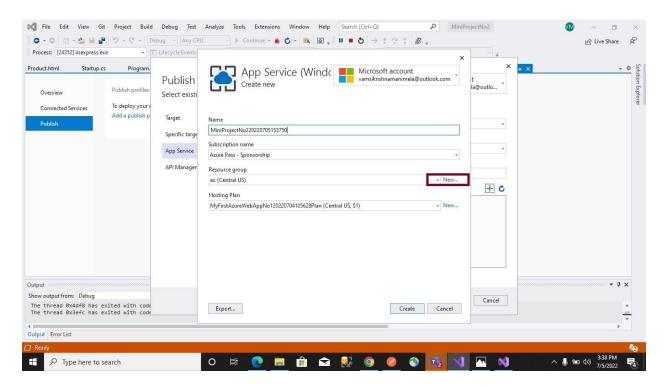


Your options depend on whether you're signed in to Azure already and whether you have a Visual Studio account linked to an Azure account.

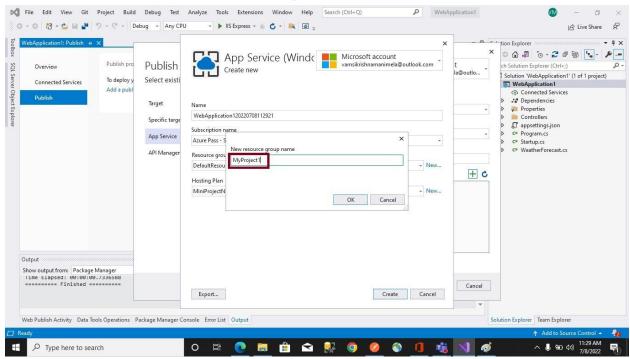
- 4. Select either Add an account or Sign in to sign in to your Azure subscription. If you're already signed in, select the account you want.
- 5. To the right of App Service instances, select +.



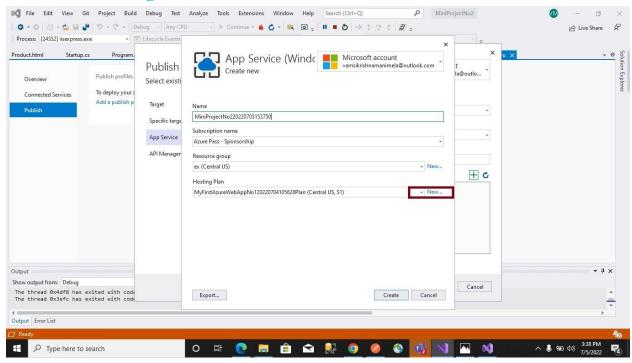
6. For Resource group, select New. In New resource group name



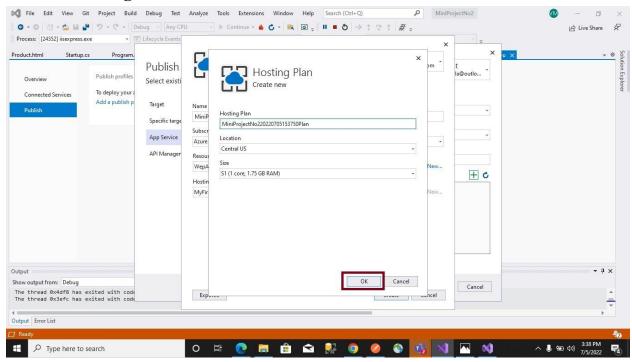
7. Enter Like MyResourceGroup and select OK.



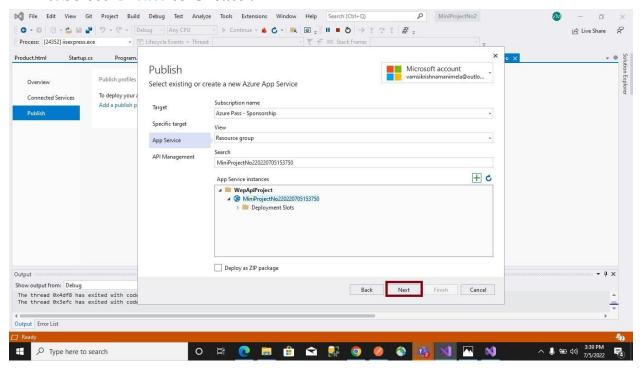
8. For Hosting Plan, select New.



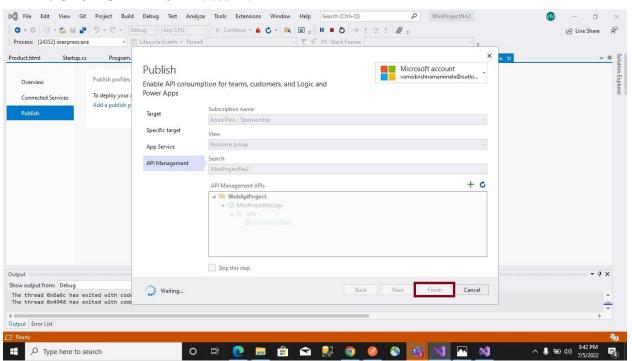
9. In the Hosting Plan: Create new dialog, enter the values specified in the following table.



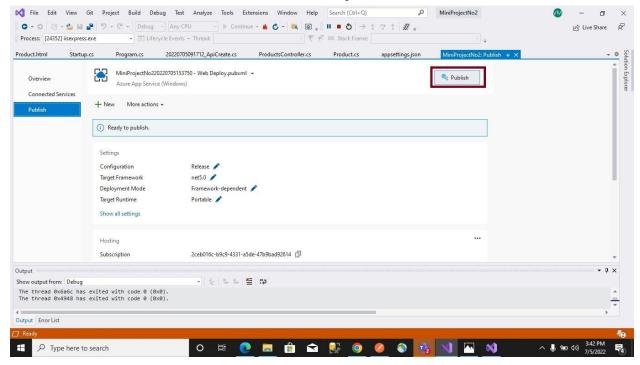
10. Select Create to Create.



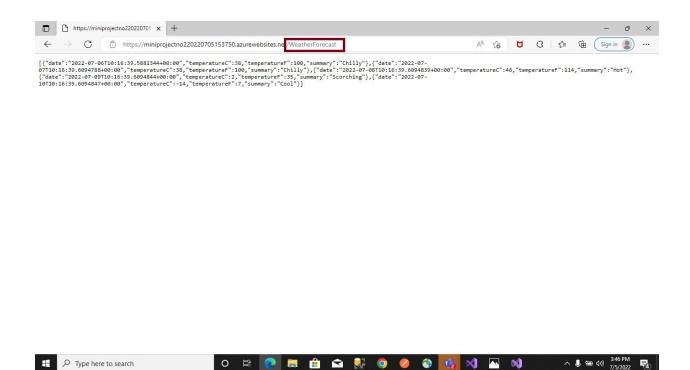
11. Click On Finish Button.



12. Here We Have To Publish Your Project.



13. Finally We Got Home Page Our Project Is Deployed In The Home We Have to add Weather Forecast



2) Configure Scale Out By Adding Rules For Custom Scaling?

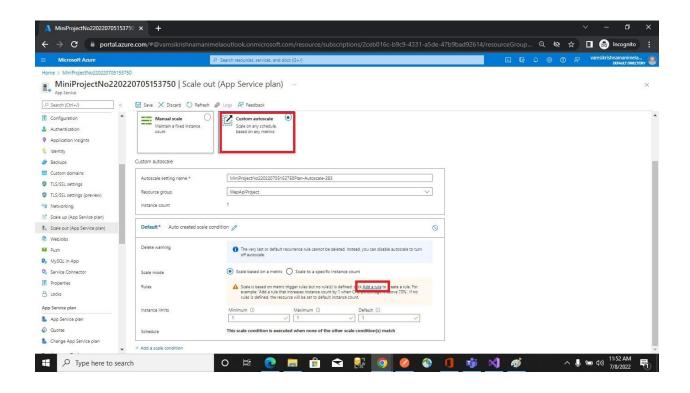
A scale out operation is the equivalent of creating multiple copies of your web site and adding a load balancer to distribute the demand between them. When you scale out a web site in Windows Azure Web Sites there is no need to configure load balancing separately since this is already provided by the platform

Open the Azure portal and select Resource groups from the menu on the left-hand side of the dashboard.

1. Click On ScaleOut Option

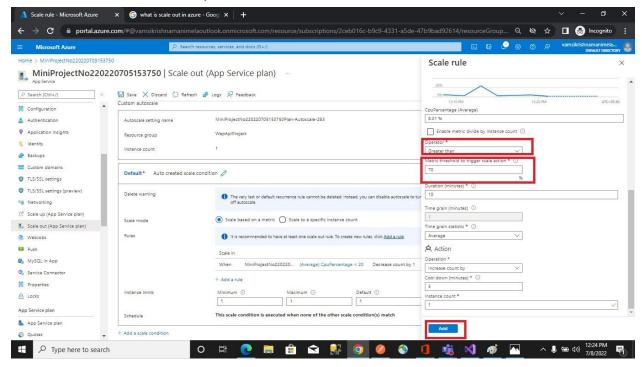
Choose **Scaling** from the menu on the left-hand side of the scale set window. Select the button to **Custom autoscale**.

2. Select the option to Add a rule.

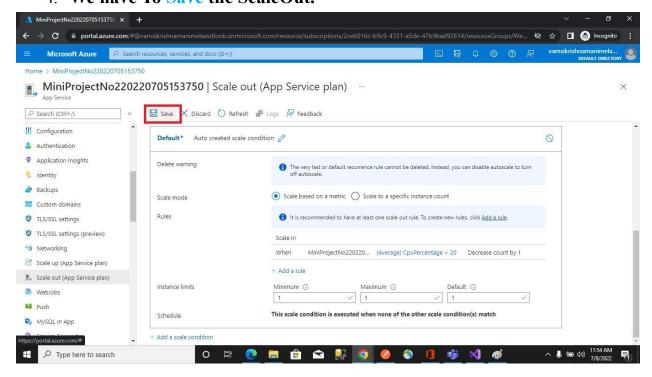


Let's create a rule that increases the number of VM instances in a scale set when the average CPU load is greater than 70% over a 10-minute period.

3. To create the rule, select Add



4. We have To Save the ScaleOut.



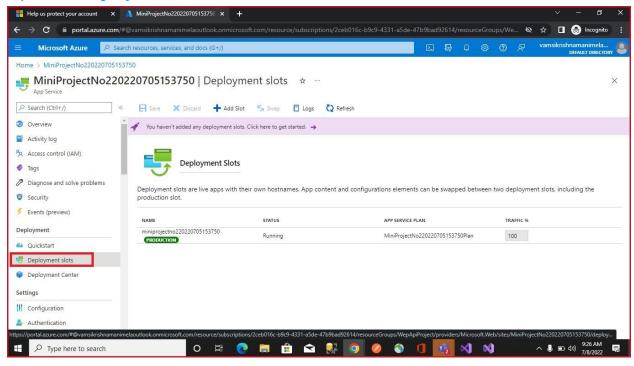
3) Configure Deployment Slots For Staging And Production?

Azure Functions deployment slots allow your function app to run different instances called "slots". Slots are different environments exposed via a publicly available endpoint. One app instance is always mapped to the production slot, and you can swap instances assigned to a slot on demand. Function apps running under the Apps Service plan may have multiple slots, while under the Consumption plan only one slot is allowed.

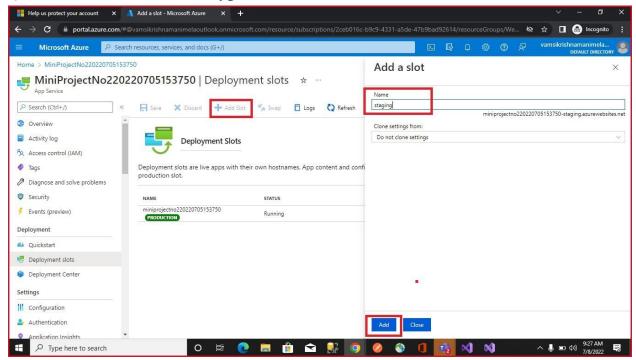
Add a slot:

You can add a slot via the CLI or through the portal. The following steps demonstrate how to create a new slot in the portal: Navigate to your function app.

1)Select Deployment slots



2)select + Add Slot. And Type the name of the slot and select Add.



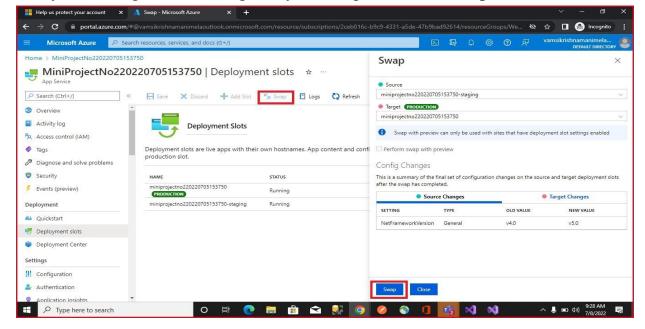
Swap slots:

You can swap slots via the CLI or through the portal. The following steps demonstrate how to swap slots in the portal:

Navigate to the function app.

3. Select Deployment slots, and then select Swap.

Verify the configuration settings for your swap and select Swap

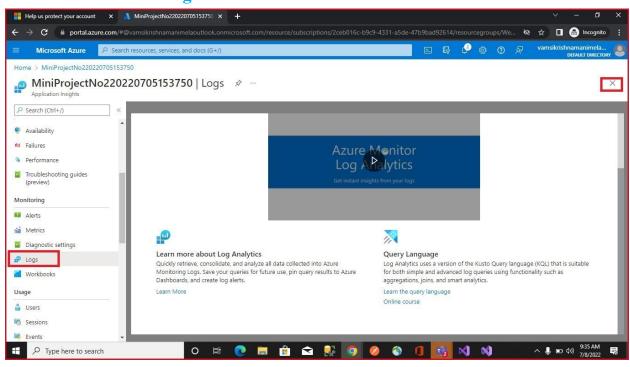


4. Work With Log Analytics With The Sample Logs Available?

Log Analytics is a tool in the Azure portal to edit and run log queries from data collected by Azure Monitor logs and interactively analyze their results. You can use Log Analytics queries to retrieve records that match particular criteria, identify trends, analyze patterns, and provide various insights into your data.

This tutorial walks you through the Log Analytics interface, gets you started with some basic queries, and shows you how you can work with the results. You'll learn how to:

- Understand the log data schema.
- Write and run simple queries, and modify the time range for queries.
- Filter, sort, and group query results.
- 1. Open Azure select Your Project Name One Overview Will Come Will Come Select Logs

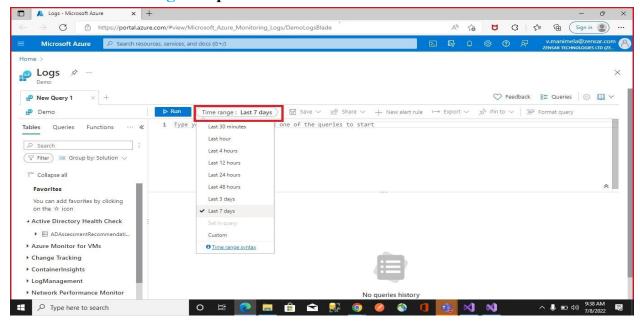


Time range:

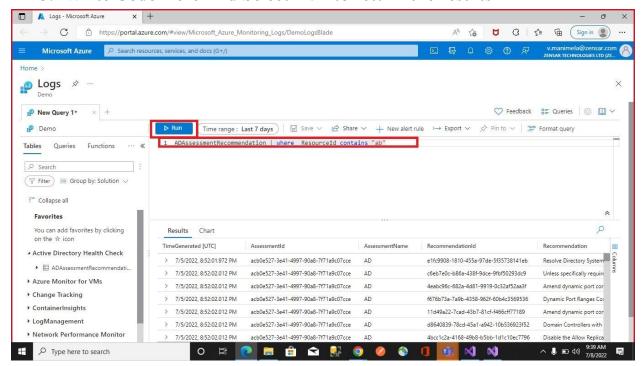
All queries return records generated within a set time range. By default, the query returns records generated in the last 24 hours.

You can set a different time range by using The Where Operator in the query. You can also use the **Time range** dropdown list at the top of the screen.

2. Let's change the time range of the query by selecting Last 7 hours from the Time range dropdown.



3. Write Code Here And Select Run to return the results

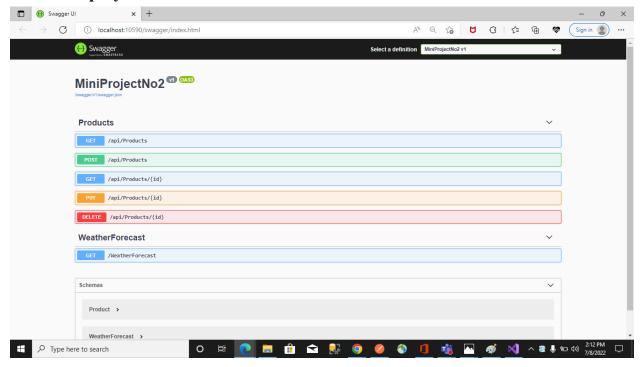


5) Configure Swagger For The Api?

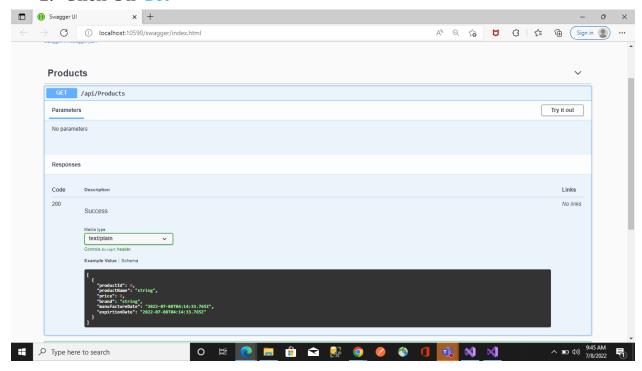
Swagger UI

Swagger Ui offers a web-based UI that provides information about the service, using the generated Open API specification. Both Swashbuckler and N Swag include an embedded version of Swagger UI, so that it can be hosted in your ASP.NET Core app using a middleware registration call. The web UI looks like this:

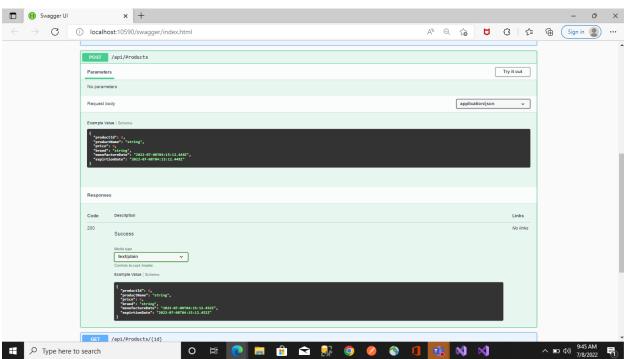
1. Swagger Home Page When Ever You Run The Project It Will Displayed



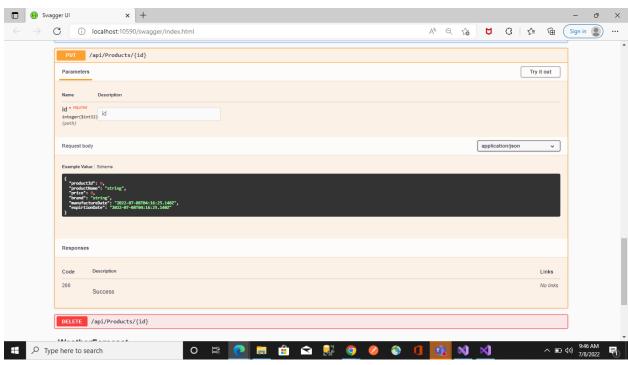
2. Click On Get



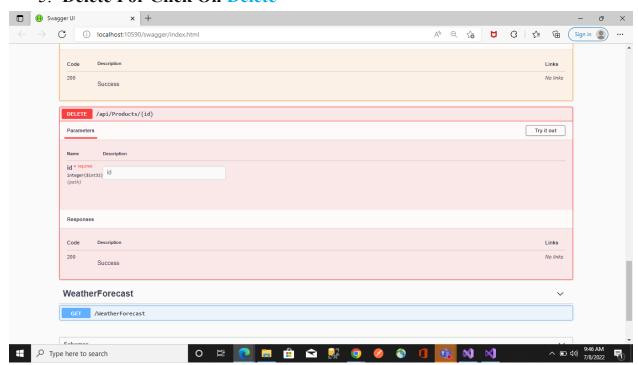
3. Click On Post



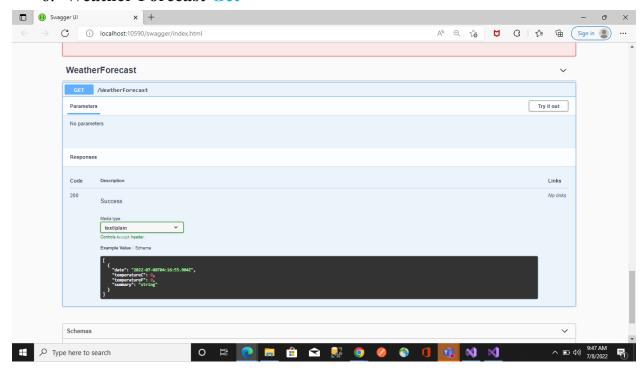
4. Click On Put



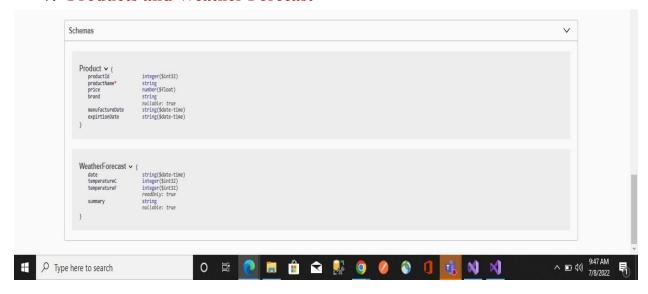
5. Delete For Click On Delete



6. Weather Forecast Get



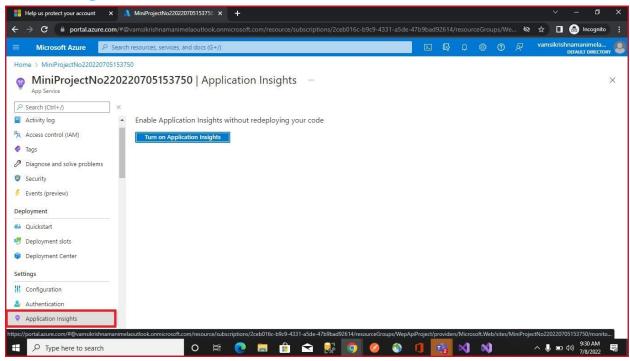
7. Products and Weather Forecast



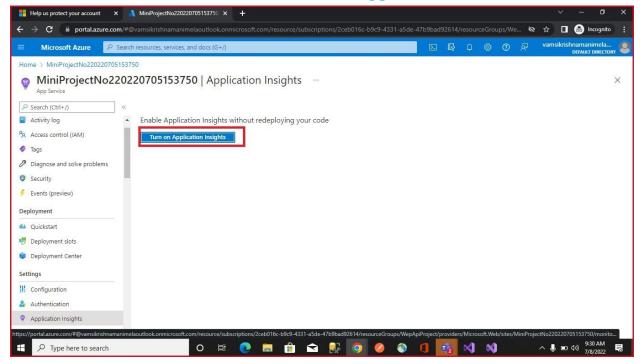
6. Configure Application Insights for the Project?

Application Insights is a feature of Azure Monitor that provides extensible application performance management (APM) and monitoring for live web apps. Developers and DevOps professionals can use Application Insights to:

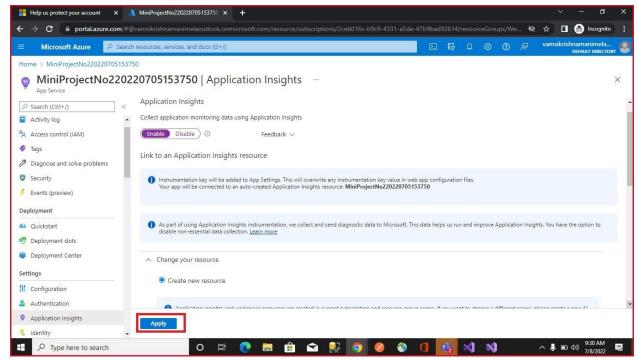
- Automatically detect performance anomalies.
- Help diagnose issues by using powerful analytics tools.
- See what users actually do with apps. Application Insights:
 - Supports a wide variety of platforms, including .NET, Node.js, Java, and Python.
 - Works for apps hosted on-premises, hybrid, or on any public cloud.
 - Integrates with DevOps processes.
 - Can monitor and analyze telemetry from mobile apps by integrating with Visual Studio App Center.
- 1. Open Azure Home Click On Your Project And Click On Application Insights



2. Then You Have To Click On Run on Application Instances



3. Enable And Apply



4. Link To The Application Instance Resource

