# Full Stack Application Development with MS Azure Cloud

## Module 6 – Application Deployment and Management with Azure

### Lab Practical Manual

## Topic: Azure with Python – Solved Question

**Lab 1: Create a function in Azure with Python using Visual Studio Code.**

*Requirements*

Before you begin make sure you have the following requirements in place:

- An **Azure account** with an active subscription. If you don't already have one, you can sign up for a free trial at https://azure.com/free.
- The Azure Functions Core Tools version 4.x.
- Visual Studio Code on one of the supported platforms.
- .NET 6 is the target framework for the steps below.
- The C# extension for Visual Studio Code.
- The Azure Functions extension for Visual Studio Code.

*Steps*

1. Choose the Azure icon in the Activity bar. Then in the **Workspace (local)** area, select the **+** button, choose **Create Function** in the dropdown. When prompted, choose **Create new project**.
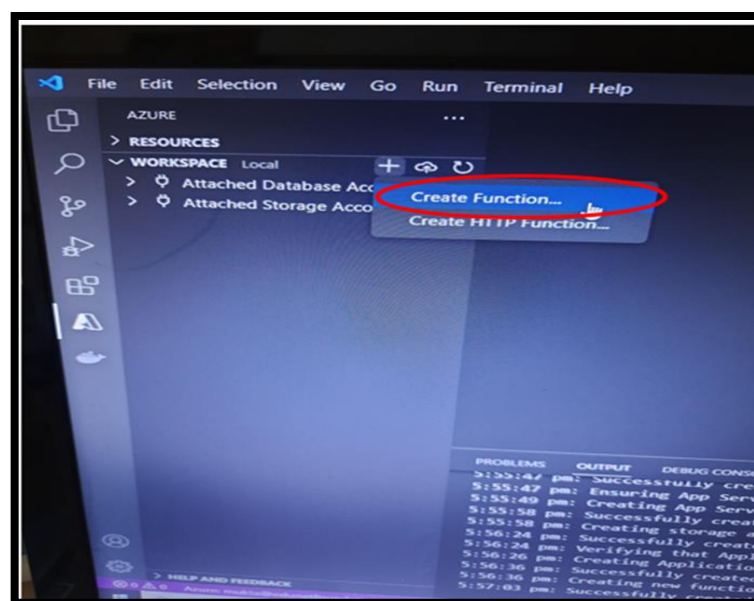


2. Enter following information when prompted

- Select a language - Choose Python.
- Select a Python interpreter to create a virtual environment - Choose your preferred Python interpreter. If an option isn't shown, type in the full path to your Python binary.
- Select a template for your project's first function - Choose HTTP trigger.
- Provide a function name - Enter name of your choice
- Authorization level - Choose Anonymous,
- Select how you would like to open your project - Choose Add to workspace.

**3.** Visual Studio Code uses the provided information and generates an Azure Functions project with an HTTP trigger. You can view the local project files in the Explorer.
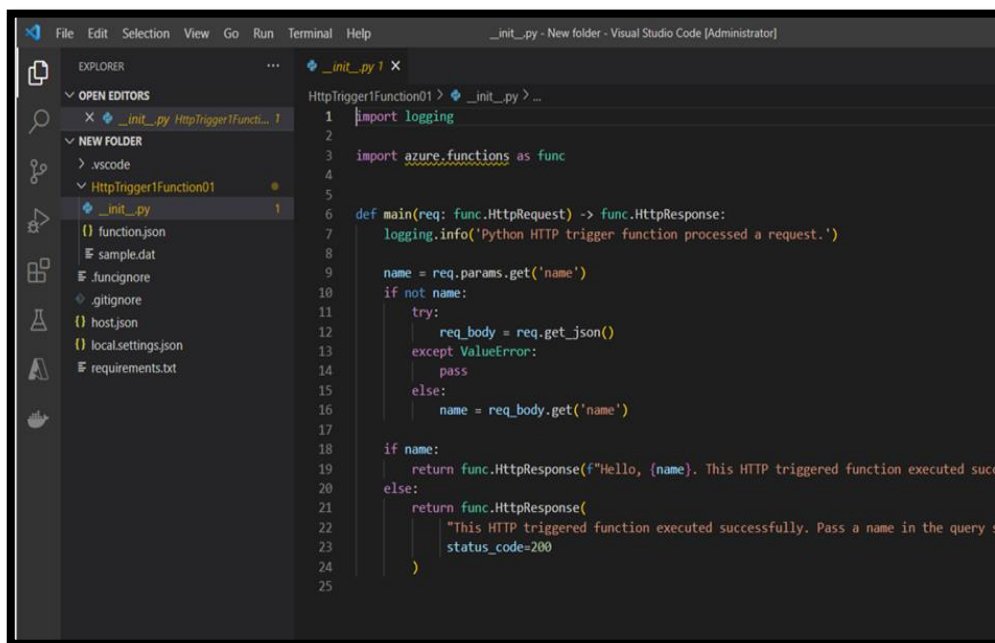


**4.** To start the function locally, press F5 or the play icon. The **Terminal** panel displays the Output from Core Tools. Your app starts in the **Terminal** panel. You can see the URL endpoint of your HTTP-triggered function running locally.
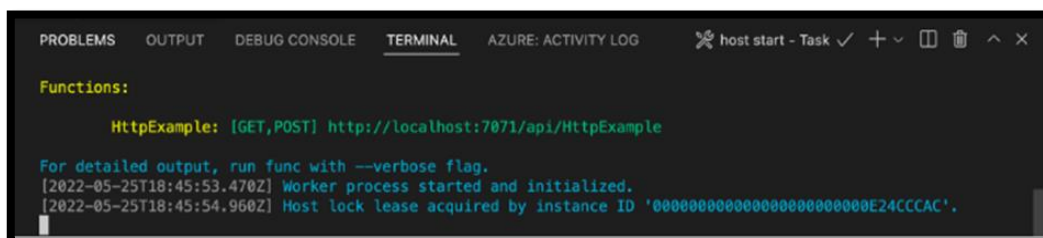


**5.** Now it's time to use Visual Studio Code to publish the project directly to Azure. Before you can publish your app, you must sign in to Azure.
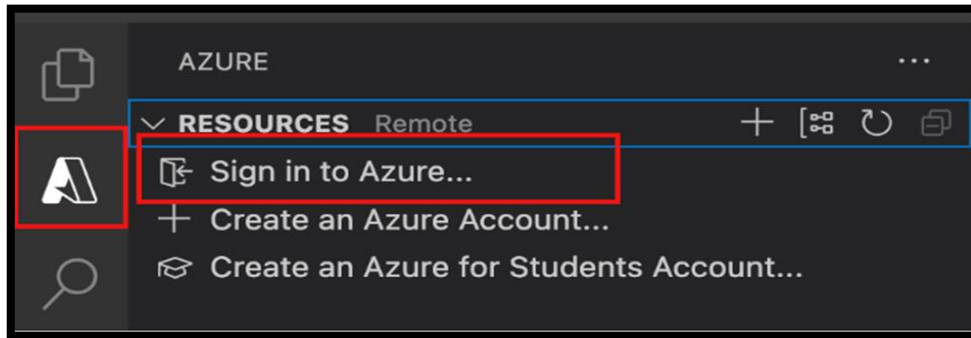
**6.** Choose the Azure icon in the Activity bar. Then in the **Resources** area, select the **+** icon and choose the **Create Function App in Azure** option.
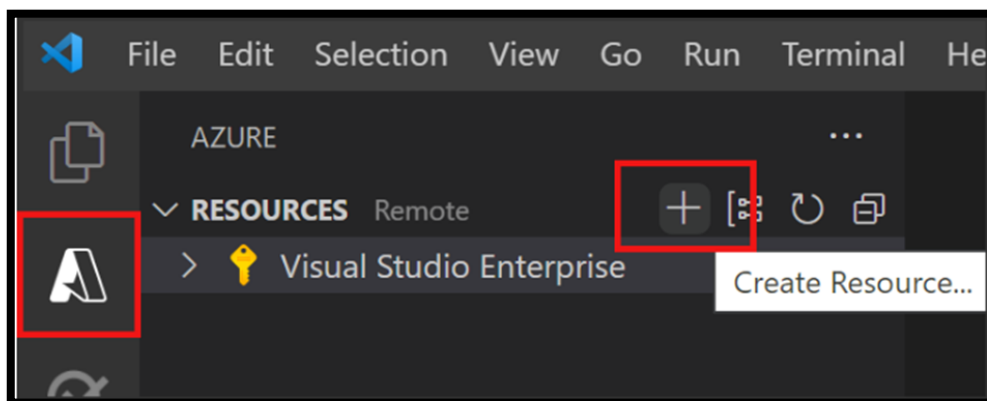


- Choose the subscription to use.
- Enter a globally unique name for the function app
- Select a runtime stack
- Choose the language version on which you've been running locally.
- Select a location for new resources
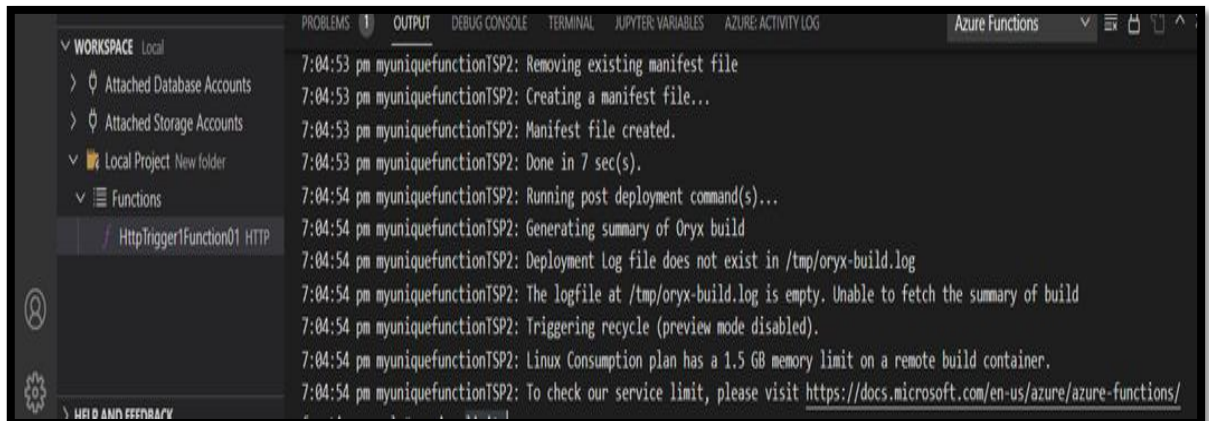- When the creation is complete, you will see the function deployed as follows
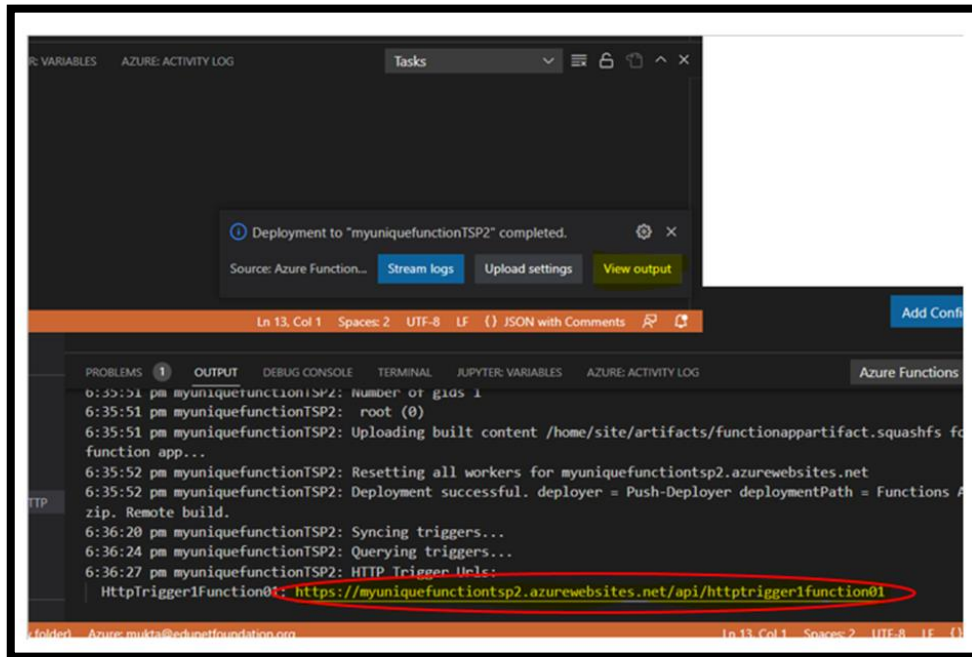
**7.** Deploy to Azure
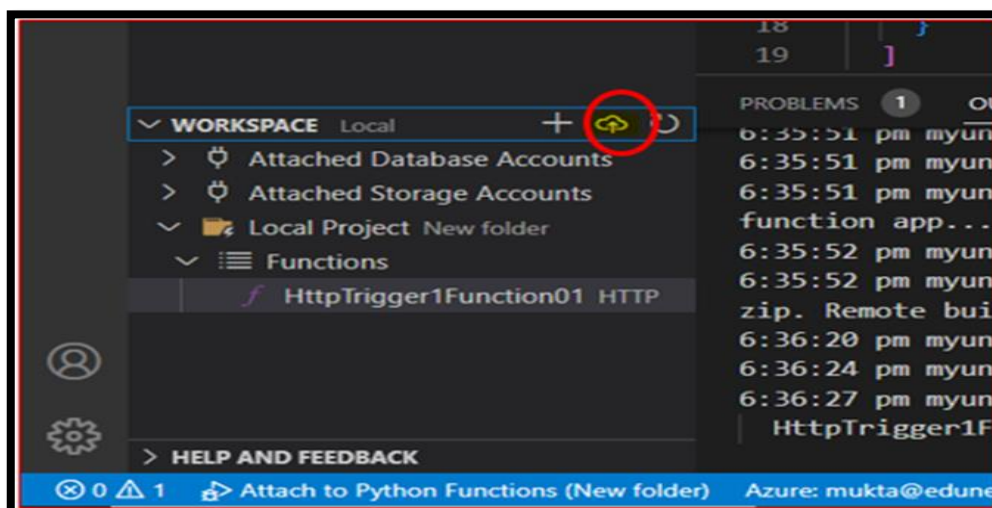


Click on the cloud icon and select deploy to Azure. Select name of the function to be deployed and press enter. You will get message as follows –
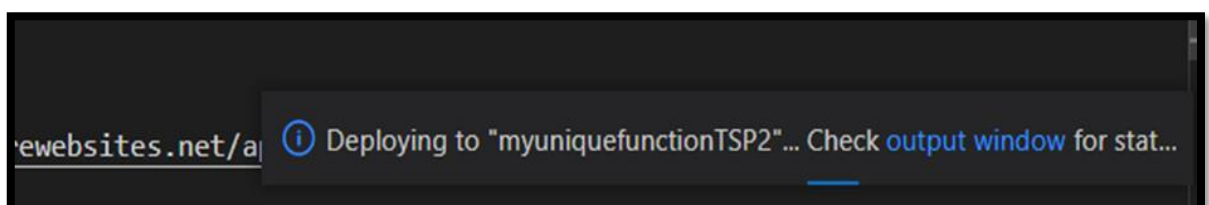


In Enter request body you see the request message body value of { "name": "Azure" }. Press Enter to send this request message to your function.

When the function executes in Azure and returns a response, a notification is raised in Visual Studio Code.