**Azure Functions Billing Information Retrieval**

**Overview**

This project showcases how to retrieve billing information from Azure using Azure Functions. As I am new to Azure, this experience has been invaluable in learning the basics of Azure and Azure Functions, especially since I have previous experience with AWS, which facilitated my understanding.

**Steps Followed to Complete the Task**

1. **Create an Azure Account**  
   I set up a free Azure subscription.
2. **Create the Azure Function**
   * Opened Visual Studio and created a new Azure Function project.
   * Deployed the Azure Function to my Azure Function App.
3. **Role Assignment**  
   Proper role assignments were configured for the Azure Function to ensure it has the necessary permissions to access Azure resources.
4. **Install Required Azure SDKs**  
   I added the following Azure SDK packages to my project:
   * Azure.Core
   * Azure.Identity
   * Azure.ResourceManager.Billing
   * Azure.ResourceManager.CostManagement
5. **Implement Authentication Logic**  
   Developed logic to authenticate with the Azure portal, utilizing the default credentials from Visual Studio.
6. **Call Azure REST API**  
   Using the obtained authentication token, I successfully called the Azure REST API to retrieve billing information.

**API Endpoints**

**Get Billing Information for Subscription ID**

**Running Locally**

1. Add your Azure account.
2. Specify the account name in GetBillingInfoBySubscriptionId.cs on line 43.
3. Run the application.
4. Access the endpoint:  
   http://localhost:7071/api/billing/periods?subscriptionId=<your\_subscription\_id>

**Testing on Azure Portal**

1. This function is deployed on my Azure account and can retrieve billing details for my subscription.
2. You can test it using the following URL:  
   https://billingfunction2024.azurewebsites.net/api/billing/periods?code=k\_yRblRy8ZUVi1hVQlqnJfmZXpqGJqd22oN8uzr8UDw5AzFuW2xgJw%3D%3D&subscriptionId=529c15e0-232e-4ca7-81de-40ef39cfedc2

**Get Billing Information for Resource ID**

1. Similar to the subscription ID endpoint, I utilized REST APIs to retrieve the data.
2. I am still clarifying the specific data types required for this endpoint.

**Get Billing Information for Multiple Resource IDs**

1. Implemented logic to handle multiple resource IDs in a single request.
2. Further refinement and validation of the data retrieved are in progress.