Lab 4: Azure API Management

Objective

1. Provision an Azure APIM resource
2. Add a sample API
3. Remove the subscription key

Note:

1. All the steps are to be done within Azure Portal.
2. There will be breakout rooms assigned and each room will have a group number [1-5]
3. Login into Azure Portal
   a. Go to https://portal.azure.com
   b. Login with the supplied credentials (username and password).
      i. Each group has a unique integer for their login [1-5] eg. usergroup[1-5]
      ii. For example, group number 5 will have
         1. Username: usergroup5@makecloudwork.com
         2. Password: will be provided during the class.
   c. You will then see the landing Azure homepage. Dismiss any popups/message boxes

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It's important that you enter all the resource names same as mentioned.

Section 1: Provision an Azure APIM resource

Steps

1. Login into Azure Portal
2. Type **"Apim"** on the search bar and select **"API Management services"** from the drop down. You will be redirected to **"API Management services"** page. Click on **"+Create"**
3. **Basics Tab**
   a. Select the resource group from the dropdown.
   b. Region: Choose **(US) East US**
   c. Give Resource name as "**apimsb**"+"**group number**" add your group number as suffix e.g. if your group number is 4, name the resource as **"apimsb4"**
   d. Organization name: Enter **"Starbucks"**
   e. Administrator email: Enter **"ashish@makecloudwork.com"**
   f. Pricing Tier: Choose **"Consumption"** from the dropdown menu
   g. Click on **"Next : Monitoring"**

4. **Monitoring Tab**
   a. Leave the defaults and click on **"Next: Scale".**
5. **Scale Tab**
   a. Leave the defaults and click on **"Next: Managed identity".**
6. **Managed identity Tab**
   a. Leave the defaults and click on **"Next: Virtual Network".**
7. **Virtual Network Tab**
   a. Don't change the other defaults and click on **"Review + create"**
8. **Review+Create Tab**
   a. Let the validation run and pass.
   b. Click on **"Create"** and wait for the deployment to complete
   c. Click on **"Go to resource"**. This will take you to the overview page of the newly created APIM resource

Section 2: Add a sample API

Steps

1. Select your API Management service
2. Within your APIM service, under APIs, click on **"+ Add API"**
3. Click on **"OpenAPI"** under **"Create from definition"**
   a. OpenAPI specification: Enter **"https://conferenceapi.azurewebsites.net?format=json"**
   b. Keep the details on Display name and Name
   c. API URL suffix: Enter **"conf"**
   d. Click on **"Create"**
4. Test the API
   a. Click on Test on the top menu
   b. Select "**GetSessions**" or "**GetSpeakers**"
   c. Click on **"Send"**
   d. Scroll below to see the various response headers and json output in the body response.

Observation:

1. Open Browser and enter the Request URL from one of the operations.
   a. https://<apim name>.azure-api.net/conf/sessions
2. You will get a 401 message. Please discuss as to what's the header name and what value it requires.

Section 3: Remove the subscription key

Steps

1. Select your API Management service
2. Within your APIM service, under APIs, click on **"Demo conference API"**

3. Click on **"Settings"** on the top menu
   a. Subscription
   b. Subscription required: **"Uncheck"**
   c. Click on **"Save"**

Observation:

1. Open Browser and enter the Request URL from one of the operations.
   a. https://<apim name>.azure-api.net/conf/sessions
2. You should be able to see the result in the body.

End of Lab.