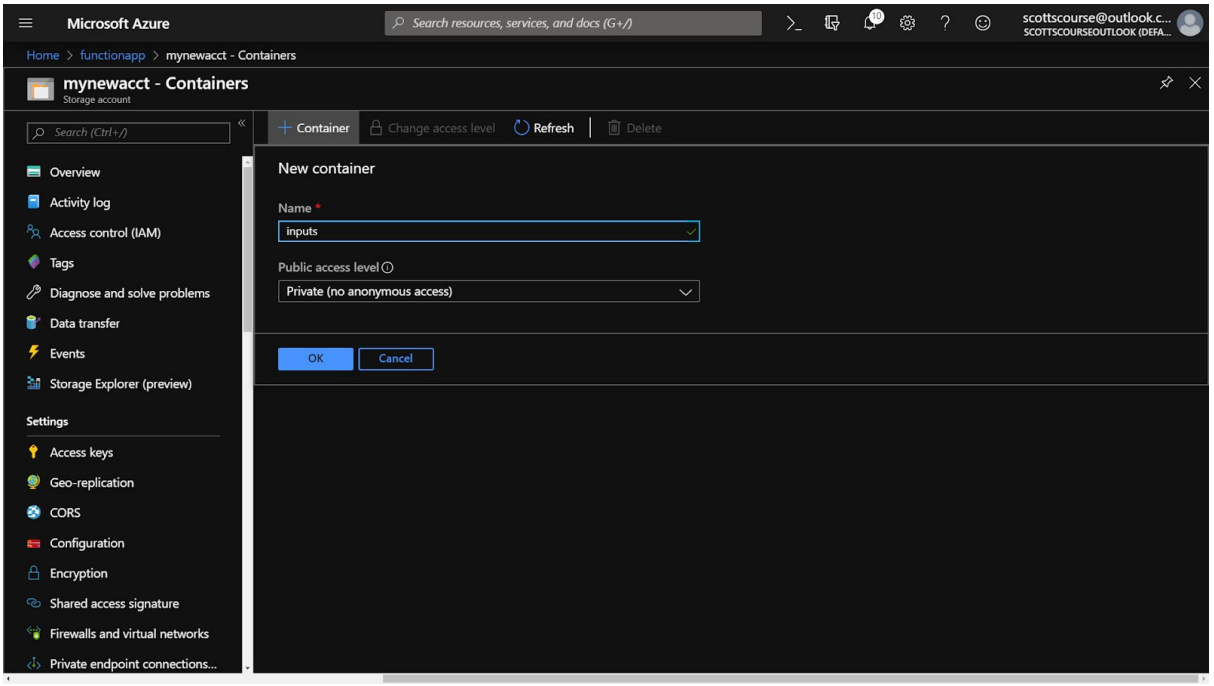
ONLINE LAB: Create a Function that Reads from a Queue

Your Challenge

- Complete the previous Online Lab that deals with writing to a queue
- Create a new container
- Add a new function to this that reads from the queue, and places the result in a blob

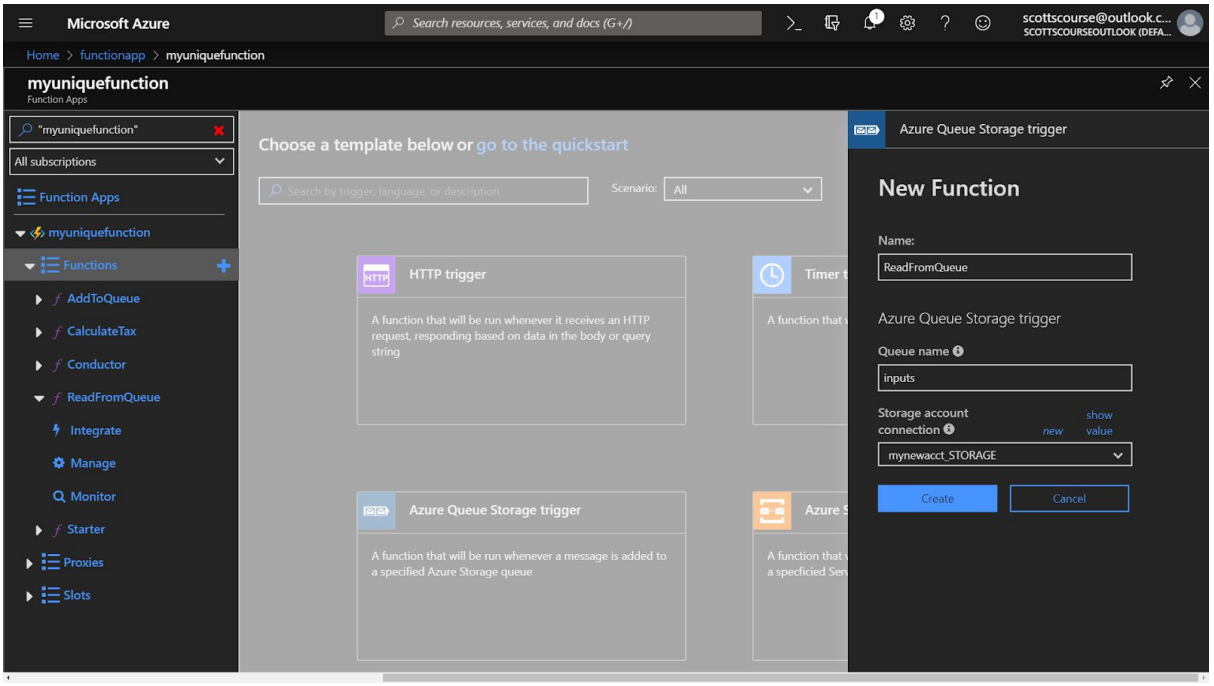
Solution

Step 1 Create a Container



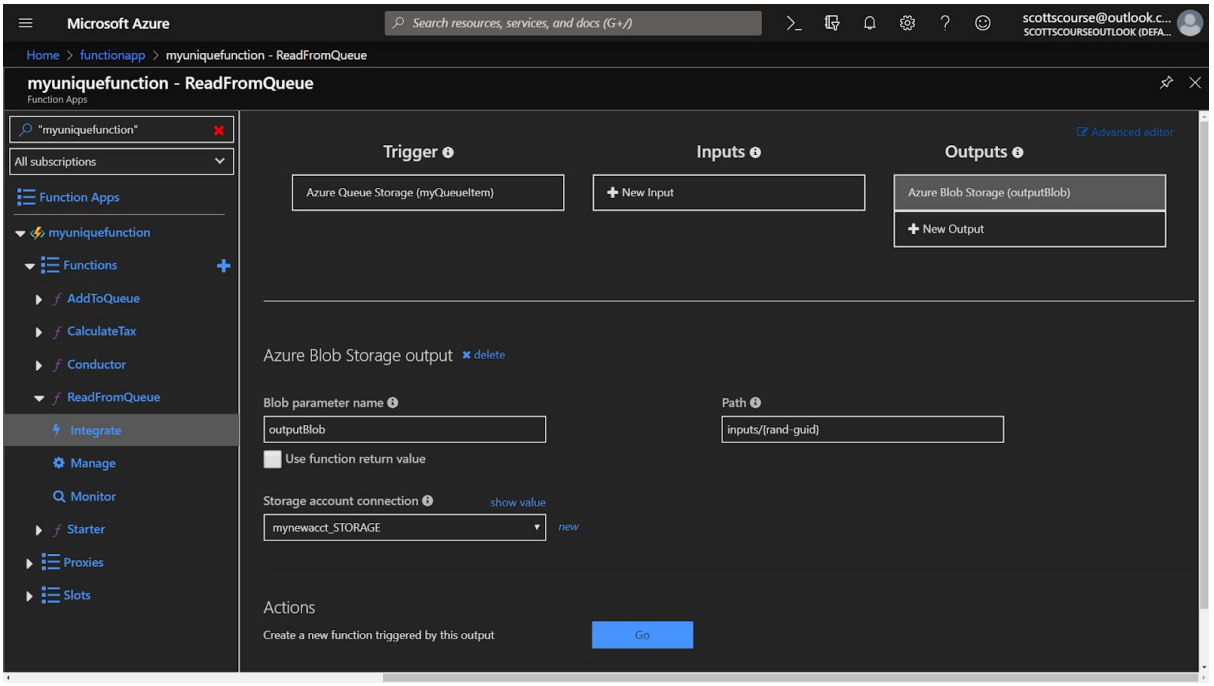
1. Navigate to the storage account created in the last lab
2. Go into the Blobs section
3. Create a new container named Inputs

Step 2 Create a New Function to Read from the Queue



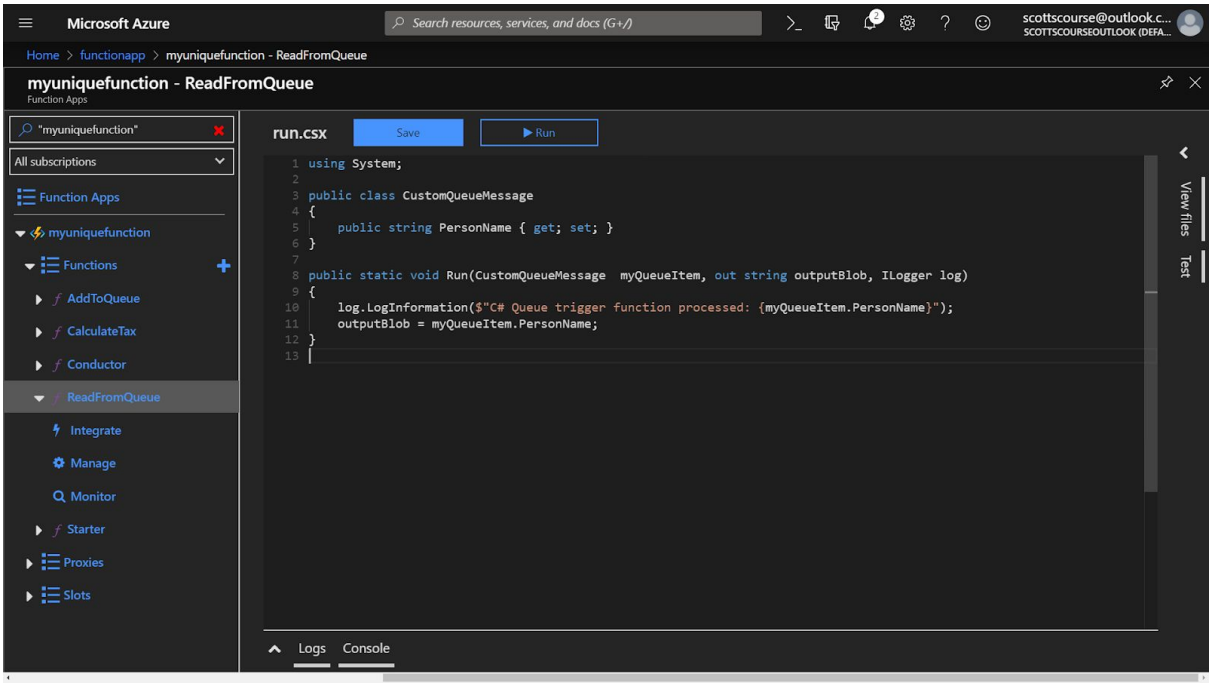
1. Navigate to the function app created in the last lab
2. On the left menu, click “**Functions**” to see the existing functions
3. Create a **new function**
4. Choose an “**Azure Queue Storage Trigger**” template
5. Name it “**ReadFromQueue**”.
6. Set the queue name to “**Inputs**”.
7. Choose the existing connection string created in the last lab.
8. Click **Create**.

Step 3 Integrate with a Blob Storage Account



1. Click the **Integrate** menu item on the left.
2. Under Outputs, select "**+ New Output**".
3. Choose **Azure Blob Storage**. Scroll down and click **Select**.
4. Choose the existing connection string created in the last lab.
5. Change the path to **inputs/{rand-guid}** because the container is named **inputs**.
6. Click **Save**.

Step 4 Modify the Code



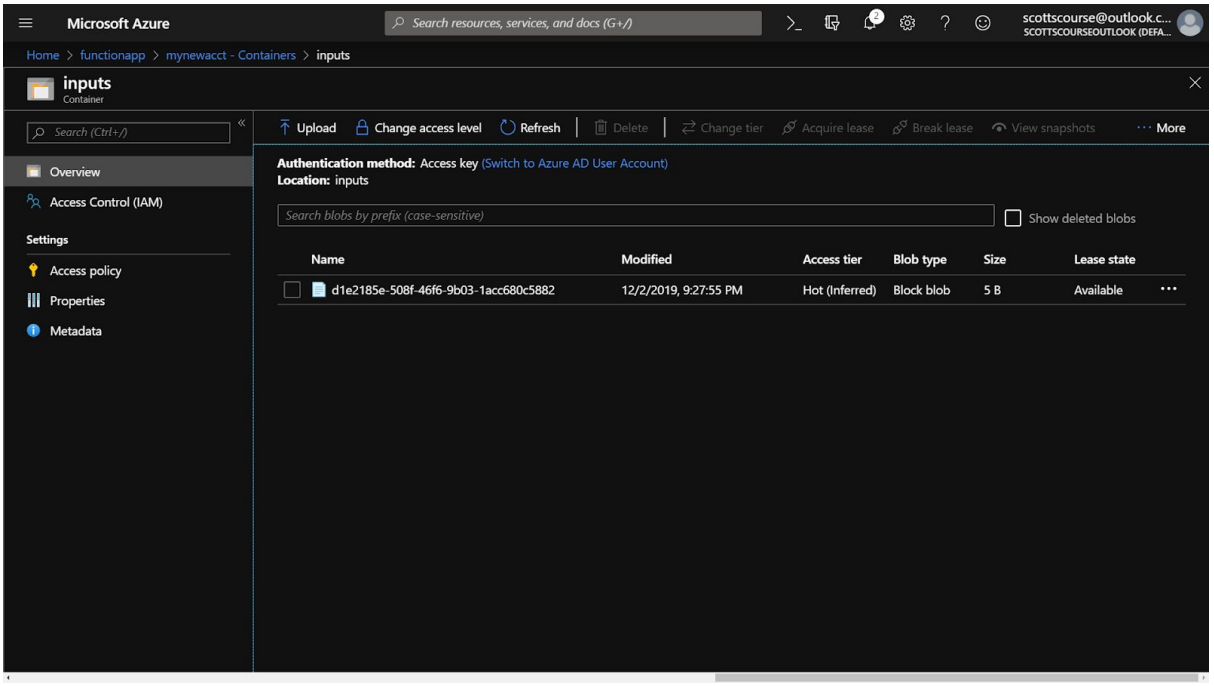
1. Click **ReadFromQueue** function name on the left.
2. Replace the body of the code with the following.

```
public class CustomQueueMessage
{
    public string PersonName { get; set; }
}

public static void Run(CustomQueueMessage  myQueueItem, out string outputBlob,
ILogger log)
{
    log.LogInformation($"C# Queue trigger function processed:
{myQueueItem.PersonName}");
    outputBlob = myQueueItem.PersonName;
}
```

3. Click **Save**.

Step 5 Test the Reading of the Queue



1. If you still have the browser tab to test the "**AddToQueue**" function open, great. Go to it. Change the name to "**Sally**" and hit enter.
2. If not, go to the **AddToQueue** function, and get the function URL. Paste the URL into a new browser tab and append "**&name=Sally**" to it. Hit enter.
3. Navigate to the **storage account** created for this project.
4. Open the **Blob/Containers** section of the storage account.
5. Go inside the **Inputs** container.
6. View the blob created with a **current date and time**.
7. Download the blob to your local and view the contents.

Step 6 Clean up

1. In the navigation list, click **Resource groups**.
2. Click **functionapp** to open the resource group.
3. Click **Delete resource group** to delete the resource group.
4. On the **Are you sure you want to delete** blade, type the resource group name: **functionapp**.
5. Click **Delete** to delete the resource group.