### KIRK DAHL

## McKesson

NAME ↑↓

sakirkweek8

# **Assignment 08**

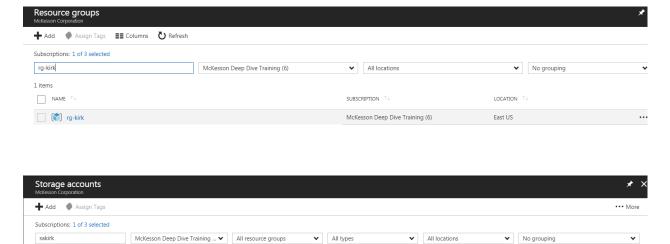
Deep Azure

Handed out: 11/29/2017 Due by 11:59 PM, midnight (CST) on Tuesday, 12/05/2017

You can do this assignment in Java, C# or Python. You do not have to do both problems in the same language. Code samples were collected from various Microsoft repositories.

Problem 01. Start with Java class file QueueBasics.java, or with C# file GettingStarted.cs or with Python program Queues.py. Those files are contained in provided archives storage-queue-java-getting-started.zip, storage-queue-cshrap-getting-started.zip and storage-queue-python-getting-started.zip, respectfully. Make any one of those programs work and perform the following operations: create a storage queue; publish a series of 5 short messages to that queue; dequeue two of those messages and print their content; peak into the content of one of remaining messages in the queue, update the content of that messages, and make that updated message invisible for 5 seconds. Try to dequeue that message right away. Report error or system message received. Then, wait 6 seconds, dequeue the message and print its content. Leave one message in the queue and do nto delete the queue right away. Convince yourself that the queue and your stored message can be seen in Azure Portal. (100\$)

Created my resource group and storage account



KIND 1

Storage account

RESOURCE GROUP 1

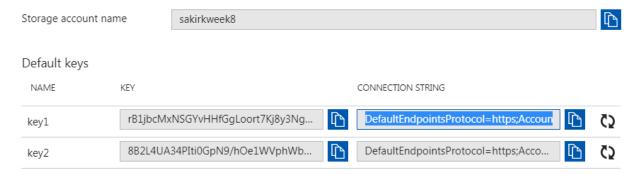
LOCATION 1

SUBSCRIPTION 1

### Gather the Connection string that I will use in the app.config

securely - for example, using Azure Key Vault - and don't share them. We recommend regenerating your access keys regularly. You are provided two access keys so that you can maintain connections using one key while regenerating the other.

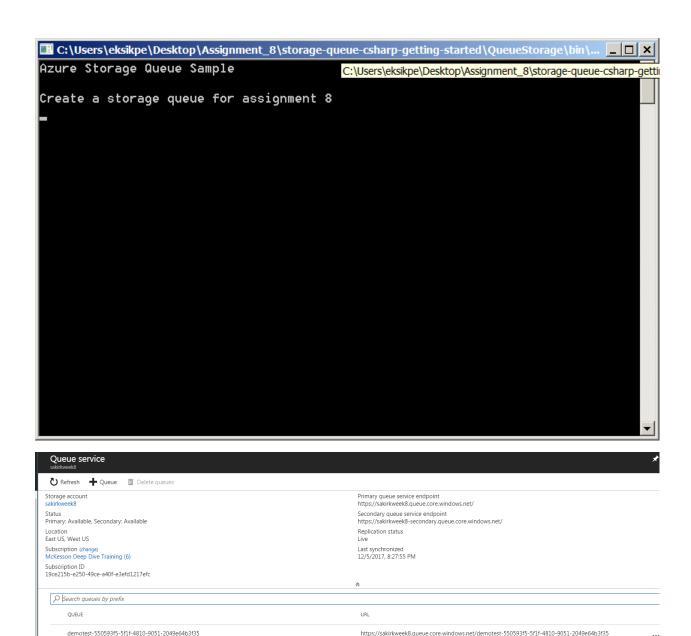
When you regenerate your access keys, you must update any Azure resources and applications that access this storage account to use the new keys. This action will not interrupt access to disks from your virtual machines. Learn more



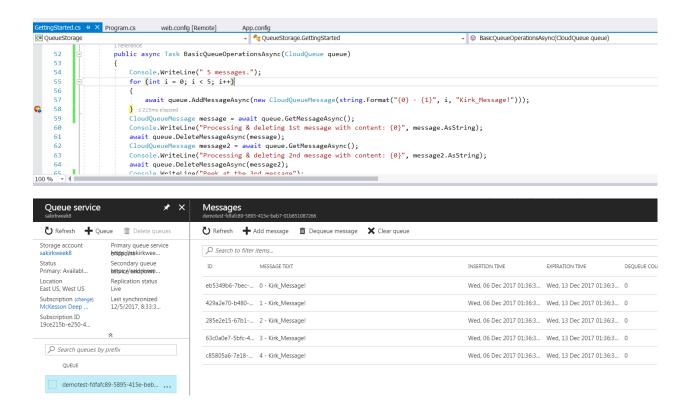
## Update the app.config for my storage account connection string

```
Program.cs
                           web.config [Remote]
    <?xml version="1.0"</pre>
                        encoding="utf-8"?>
   3 ⊨ <appSettings>
        <!-- By default we are assuming you will use the Azure SDK Storage Emulator. If you have an Azure Subscription you can
             create a Storage Account and run against the storage service by commenting out the connection string below and us:
             second connection string - in which case you must also insert your storage account name and key in the line below
         <!-- <add key="StorageConnectionString" value = "UseDevelopmentStorage=true;"/> -->
8
         <add key="StorageConnectionString" value="DefaultEndpointsProtocol=https;AccountName=sakirkweek8;AccountKey=r81jbcMxNSG</pre>
      </appSettings>
10
    </configuration>
11
```

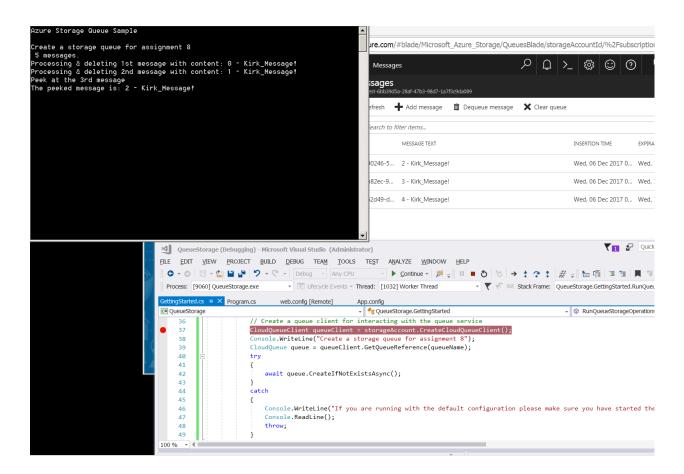
Modified the Gettingstarted.cs to add some break points to illustrate the message queue.



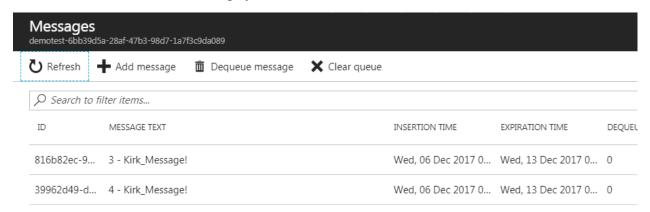
Continue through the break points until it had created my 5 messages



Continued through code and it deleted 2 messages and peeked at the 3<sup>rd</sup> message



We don't see the modified message yet as we wait.



And now we see the modified message

Messages demotest-6bb39d5a-28af-47b3-98d7-1a7f3c9da089						
<b>ひ</b> Refresh ■	Add message	Dequeue message	X Clear queue			
<i>Search to fi</i>	Iter items					
ID	MESSAGE TEXT			INSERTION TIME	EXPIRATION TIME	DEQL
816b82ec-9	3 - Kirk_Message!			Wed, 06 Dec 2017 0	Wed, 13 Dec 2017 0	0
39962d49-d	4 - Kirk_Message!			Wed, 06 Dec 2017 0	Wed, 13 Dec 2017 0	0
83b90246-5	Modified message 3			Wed, 06 Dec 2017 0	Wed, 13 Dec 2017 0	1

**Problem 02 Optional**. In this second problem write/modify code so that it performs all of operations you performed in Problem 01. If you are a Java developer, start withclass file ServiceBusQueueBasic.java which you could find in the attached archive: servicebus-java-manage-queue-with-basic-features-master.zip. This archive was downloaded from <a href="https://azure.microsoft.com/en-us/resources/samples/service-bus-java-manage-queue-with-basic-features/">https://azure.microsoft.com/en-us/resources/samples/service-bus-java-manage-queue-with-basic-features/</a>.

If you find it easier to work with C#, please examine C Sharp class file Program.cs which you could find in the attached archive: service-bus-dotnet-manage-queue-with-basic-features-master.zip. This archive was downloaded from

https://azure.microsoft.com/en-us/resources/samples/service-bus-dotnet-manage-queue-with-basic-features/

Both referenced sites have very useful practical information.

If you want to do this problem in Python, please visit: <a href="https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-python-how-to-use-queues">https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-python-how-to-use-queues</a> (100%)

# Did not perform

#### SUBMISSION INSTRUCTIONS:

Your main submission should be a MS Word or PDF document containing descriptions of your action while configuring Azure services. If your MS Word document is larger than 1 MB, save it as a MINIMIZED PDF. Please be merciful and capture small JPGs. Describe the purpose of every action and the significance of the results. Start with the text of this homework assignment as the template. Please add the entire text of your JAVA, C# or Python programs to the end of your MS Word/PDF document. Please write your solution as if you are writing a tutorial for your colleagues. Please make your text readable. Make sure that your fonts, especially in captured

images are not unreadable. Please do not provide ZIP or RAR or any other archives. Canvas cannot open those archives and they turn into a nuisance for us.