## McKesson Assignment 09 Deep Azure

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### Handed out: 12/07/2017 Due by 11:59 PM, midnight (CST) on Thursday, 12/14/2017

### Do one of two problems.

### Note: You can do the second problem for extra credit if you need extra points on a previous homework. Please leave a note in the comment grade if you are doing the second problem for extra credit to be applied to a previous homework. Note which assignment to apply the extra credit to.

**Problem 01.** Please establish a storage account, a container within that account, an event hub and build a client that will send 10 messages to your event hub. You can you’re your messages one by one or in a single batch. Capture your messages in the container. Demonstrate that you can download your messages (one is enough) and can open them in a text editor. Build another client that would read all ten messages and display their content. You can implement your clients in Java, C# or Python.

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-dotnet-standard-getstarted-send>

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-java-get-started-receive-eph>

(100%)

**Problem 02**. Create a simulated “thing” (device) and provide it with proper identity. Create an IoT hub that could communicate with your thing. Write a device client that could send a message to the IoT hub. Let your IoT hub respond to the thing with a message of its own. Have your client print the message it receives from the IoT hub. Implement your solution in any language of your choice. See the slides from lab for the .NET and Python examples.

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-csharp-csharp-getstarted>

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-java-java-c2d>

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-python-getstarted

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As your guide please use materials provided in Lab09 on IoT and Event Hubs and the material in Lecture 09. Be free to use any of the code we collected among Azure samples and provided in the attached ZIP file. Also, consult Azure on-line documentation on Event Hubs and IoT Hubs.

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 any other files that you might have used or generated. 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.