**Homework 6 Solution Template: AWS SDK and Messaging (Total Points: 100)**

Due: Sunday October 21 11:59PM

**Pre-assignment Configuration (Points: 10)**

Describe your development setup providing information on what programming language you chose, whether or not you used any IDE, which one (if yes):

Java, using Eclipse

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Briefly describe your design considerations. What are the main components of your code? Where do they run and how do you start them?

There is a producer main class and a consumer main class. The producer is run from within a project, and the consumer is run from a runnable jar file onan EC2 instance.

The source files are in src\main\java\cscie90\alex\hw6

Both rely on a profile named ‘developer’ in the default credentials file in the default locations.

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Provide the screenshot of your developer user’s Summary page with Permissions policies visible:

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**Problem 1 (AWS Console): Create your message path. (Points: 20)**

Using AWS console manually:

* Create an SNS Topic named “homework6”.

Paste the screenshot of your SNS

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* Create an SQS endpoint named “homework6sqs”.

Paste the screenshot of your SQS queue Details tab bellow:

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* Subscribe your SQS endpoint to your SNS topic

Paste the screenshot of your SNS Subscription tab:

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**Problem 2 (Programming): Create a Publisher (Points: 35)**

**AND**

**Problem 3 (Programming): Create a Consumer (Points: 35)**

*Submit all your code files packaged into a zip file together with a readme.txt file explaining which code files you are submitting, what they do, and how to run them. Name the zip file as follows: lastname\_firstname\_hw6code.zip*

***VERY IMPORTANT:***

*Before packaging your source code into the zip file, make sure your replace your credentials (which would be hardcoded in your code) with star symbols(\*). We will test your code by running it with our own credentials.* ***Points will be taken off*** *for submitting your credentials with your homework.*

*Original Code:*

String user\_name=”sk-developer”;

String aws\_id=”AKIDFG6S7R6FUUJI4EPQ”;

String aws\_key=”UYuy87hjh9yuhbhhuh78eguher7ty347ytcmurh”;

*Submitted Code:*

String user\_name=”sk-developer”;

String aws\_id=”XXX”;

String aws\_key=”\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*”;

Paste the screenshot of the output of your running Publisher:

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Paste the screenshot of the output of your running Consumer:

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**Bonus (Points: 10)**

Create an email consumer configured to your email address that will send you a notification ONLY when the number received is the number 90 (because the class is CSCI-e90, get it?).

Paste the screenshot of your received email notification:

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