

## Lab#1 – AWS Storage, AWS RDS and AWS DynamoDB

**Due Date:** Midnight of September 25 (Friday)

**Purpose:** The purpose of this assignment is to help you:

- Understand AWS S3, AWS RDS and AWS DynamoDB
- Become familiar with IAM
- Able to implement C# to access AWS service programmatically

**Instructions:** Be sure to read the following general instructions carefully:

This assignment should be completed individually by all students. You need to demonstrate your solution during lab session, and submit your solution **through the dropbox**. Your submission must be a word document or a pdf document which contains necessary screenshot, and be named following the pattern of **studentID(yourlastname)\_ASSnumber.pdf**. e.g., 300123456(smith)\_ASS#1.pdf

### **Question 1[5 marks]**

Implement a C# app to create a bucket in S3, and upload an object to this bucket.

### **Question2 [5 marks]**

Login to your AWS account by using AWS management console, then finish following two tasks:

2.1 Use AWS RDS service to create a MySQL database engine, create a table called **Student** to hold all information about student such as ID, first name, last name, email address, contact number; insert your own information into table Student [2 marks]

2.1 Create a DynamoDB table to record emails for a mail server, the table should include sending date, sender, recipient, subject, message, etc. Explain the rationale of your design [3 marks]