**AWS Lab 1. IST 615—Winter 2022**

In this lab assignment you will complete two modules in the AWS Cloud Foundations course, and complete two labs. In order to complete the assignment, you need to sign up for the AWS Cloud Foundations course—you should have received an e-mail inviting you to register.

The two modules that you need to complete are:

- Module 1 – Cloud Concepts Overview.

This module presents general material on cloud computing, similar to our course materials, as well as specific information on AWS. For this module, view all of the materials and complete the Module 1 Knowledge Check. (1 point for completing the Knowledge Check with at least 80% correct)

- Module 6 – Compute. (1 point for Knowledge Check, 6 points for EC2 lab, 2 points for Lambda activity)

This module introduces AWS computer services, including EC2, container services, Lambda and Elastic Beanstalk. For this module, view each video and console demonstration for EC2. Then complete: (1) Lab 3 – Introduction to Amazon EC2; and (2) Activity – AWS Lambda. Write lab reports for each, following the instructions below. Then complete the Module 6 Knowledge Check.

**Lab Instructions**

For the EC2 Lab and Lambda Activity, follow the instructions you’ll find in the AWS module, and take notes and capture screen shots as you go. Your lab reports should include a one-paragraph overview of the lab, stating the purpose of the lab. Then document each step as you go through the lab by providing (1) what you did, (2) the purpose of each step and (3) screenshots for each step.

For instance, for Lab 3, you would have something like this:

---------------------------------------------------------------------------------------------------------------------------------------Example--Task 1: Launch Your Amazon EC2 Instance

- What I did: I opened the AWS Management Console. On the Service Menu, I clicked EC2. This gives me options to launch an EC2 instance. Next I chose Launch Instance, and was give options to Choose an Amazon Machine Image (AMI).

- What is the purpose: The purpose of the console is to access the full range of AWS services. An EC2 is a virtual machine. Its purpose is to provide a resource that can be configured to meet my computing needs, one that can be scaled up and down as my requirements change.

- Insert screen shots here

Graphical user interface, application, email

Description automatically generated

Step 1. Choose an AMI

- What I did

- What is the purpose

- Insert screen shots here (as above)

Step 2. Choose an Instance Type

- What I did

- What is the purpose

- Insert screen shots here (as above)

Step 3. xxx

Continue through each task and step in this manner.

Do the same for the AWS Lambda activity

Lab scoring:

EC2 lab (6 points)

Task 1: 3 points

Tasks 2-6: 0.5 points each (3 points total)

Lambda activity (2 points)

Tasks 1-4: 0.5 points each