A07 - AZURE

OVERVIEW

Cloud computing is very popular. It provides virtualized platforms and services to help reduce costs while improving scalability, accessibility and security. This assignment introduces the student to Infrastructure as a Service (IaaS) – one of the common categories of cloud service models.

OBJECTIVES

- Demonstrate features of Microsoft Azure to develop and deploy applications.

ACADEMIC INTEGRITY AND LATE PENALTIES

- Please refer to the SET Policies document regarding Academic Integrity Information
- Please refer to the SET Policies document regarding Late Policy

EVALUATION

- Please see the rubric for this assignment on eConestoga.

REQUIREMENTS

Submission in groups of 2 (Same group as Assignments 5 and 6)

Implement the server (service) portion of Assignment 06 on a virtual machine in Azure.

- Since there should be no substantial changes to the code created in Assignment 6, there are NO GitHub requirements
- Preparation:
    o Create a Windows 10 or 11 virtual machine on Azure
        ▪ Be careful of resource usage – you only have $100 credit
    o Make sure your log entries include a date/time stamp.
    o Make sure the OnStart and OnStop methods write a message to the log file

(continued)

- You will be demonstrating the following in the lab period after the assignment is due:
  - Start the Windows virtual machine on Azure. Make sure you show the top part of the virtual machine overview clearly at the start of the demo. (You do not need to show how the virtual machine was created)
  - Create the Azure firewall Inbound Rule for your client to access the virtual machine
  - Connect to the Virtual Machine
  - Install the game service on the Virtual Machine
  - Create the Windows firewall Inbound Rule for your client to access the virtual machine
  - Show the configuration information for the server service
  - Start the game service
  - Use the client to play the game – make sure you show how you connect to the server
  - Stop the server service
  - Start the server service again
  - Show the contents of the log file on the server

FILE NAMING REQUIREMENTS

- There are no specific naming conventions required

SUBMISSION REQUIREMENTS

Submit the following to the eConestoga assignment folder for this course.

- The names of all members should be written in the comments for the eConestoga submission
- Both the client and the server solutions must be submitted (even if they don't change between assignment 6 and 7)