Cairo University

Faculty of Computers and Artificial Intelligence

Software Engineering Program

Cloud Computer - Assignment 1

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**Q1: Write a Report about Microsoft Azure, Google App Engine, BuleMax:**

◦ Max 3 pages Word, Times 11pt – check plagiarism.

**Google AppEngine**

It is Google's platform as a service offering that allows developers and businesses to build and run applications using Google's advanced infrastructure, It is a service for developing and hosting Web applications in Google's data centers, belonging to the platform as a service (PaaS) category of cloud computing.

Web applications hosted on GAE are sandboxed and run across multiple servers for redundancy and allowing for scaling of resources according to the traffic requirements of the moment.

App Engine automatically allocates additional resources to the servers to accommodate increased load.

These applications are required to be written in one of a few supported languages, namely: Java, PHP, Python, Go

It also requires the use of Google query language and that the database used is Google Big Table.

GAE free up to a certain amount of use for the following resources:

* Processor (CPU), Storage, API calls, concurrent requests.

**Microsoft Azure**

* It is Microsoft's public cloud computing platform. It provides a broad range of cloud services, including compute, analytics, storage and networking.
* Users can pick and choose from these services to develop and scale new applications or run existing applications in the public cloud.
* platform aims to help businesses manage challenges and meet their organizational goals.
* It offers tools that support all industries including e-commerce, finance and a variety of Fortune 500 companies, and is compatible with open-source technologies.
* Microsoft provides the following five different customer support options for Azure:

• Basic, Developer, Standard, Professional Direct, Enterprise (Premier)

* Microsoft Azure is one of several major public cloud service providers operating on a large global scale.
* Some organizations use Azure for data backup and disaster recovery.

**Blue Max**

It is a set of cloud computing services for business offered by the information technology company IBM.

IBM Bluemix is the NEW cloud platform to develop, manage and run web and mobile applications.

IBM Cloud (BlueMix) contains more than 170 services including compute, storage, networking, database, analytics, machine learning, and developer’s tools.

It is an implementation of IBM's Open Cloud Architecture, based on Cloud Foundry, that enables you to rapidly create, deploy, and manage your cloud applications.

The exact cost of IBM Cloud varies depending on resource usage, deployment model, support and other factors.

IBM offers three deployment models for its cloud platform:

* **Public:** A public cloud that provides access to virtual servers in a multi- tenant environment. An enterprise can choose to deploy its applications in one or multiple geographical regions.
* **Dedicated:** A single-tenant private cloud that IBM hosts in one of its data centers. An enterprise can connect to the environment using a direct network connection or VPN, and IBM manages the platform.
* **Private:** A version of the IBM platform that an organization deploys as a private cloud in its own data center behind a firewall.