**Cloud Computing**

**NMIMS Centre for Distance and Online Education (NCDOE)**

**Internal Assignment Applicable for April 2025 Examination**

**1. You’ve been invited by the Government of Cameroon to advise on deployment of cloud for their e-governance services. The Government is very keen to reduce the total cost of ownership and increase scalability of its e-governance infrastructure. As such, it is evaluating the use of cloud and the right choice for the deployment model. You have been asked to provide a brief report explaining pros and cons of each cloud deployment model for e-governance systems in Cameroon.**

**Answer:**

**Introduction:**

The Government of Cameroon is exploring cloud computing for its e-governance services to enhance scalability, efficiency, and cost-effectiveness. E-governance relies on digital platforms to provide public services, improve transparency, and streamline administrative functions. Traditional IT infrastructure incurs high capital and operational costs, making cloud adoption an attractive alternative.

Cloud deployment models—Public, Private, Hybrid, and Community Cloud—offer distinct benefits and challenges. The right choice depends on factors like data security, cost, control, and scalability. A well-planned cloud strategy can reduce the total cost of ownership while ensuring high availability and data sovereignty. This report evaluates the pros and cons of each cloud model to help Cameroon make an informed decision, aligning with its national priorities and digital transformation goals.

**This is partially solved sample answer**

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**2. Amigo Software is a young and rapidly growing Software Products Firm – and they’re developing products such as HRAmigo, AccountsAmigo, etc. Amigo currently operates in a bootstrapped mode – i.e., money is very tight. As the CTO, you’re trying to decide the company’s Cloud Strategy, which should provide platform flexibility to the developers in the various Product Teams who are developing Cloud-Native Apps, for a rapid Go-to- market product deployment. Specifically, you are evaluating.**

**a. What Cloud Services to opt for – i.e., IaaS, PaaS &/or SaaS?**

**Answer:**

**Introduction:**

Amigo Software, a rapidly growing software products firm, is focused on developing cloud-native applications for a fast go-to-market strategy. Operating in a bootstrapped mode, cost efficiency and flexibility are crucial for its cloud strategy. To support its development teams, Amigo must choose the right cloud services—Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). The selection will impact scalability, operational efficiency, and development speed. This evaluation will determine the most suitable cloud service model to align with Amigo’s needs.

**b. Which Cloud Service Providers would be ideal – i.e., AWS, Azure, or GAE? Prepare an Approach Document to serve as the basis of an Executive Meeting with the CEO & CFO to discuss this initiative. You may get more details by visiting the web site of these firms or you can make your own assumptions.**

**Answer:**

**Introduction:**

Amigo Software, a fast-growing but bootstrapped firm, is evaluating the best cloud service provider to support its cloud-native application development. The chosen provider must offer cost-effective solutions, scalability, and flexibility to accelerate the go-to-market strategy. The key contenders—Amazon Web Services (AWS), Microsoft Azure, and Google App Engine (GAE)—each have distinct advantages in pricing, developer tools, and integration capabilities. This approach document outlines the evaluation criteria, key considerations, and recommendations to help the CEO and CFO make an informed decision on the company’s cloud strategy.

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**3. The Top Management of Sunset Years Gericare is meeting to discuss their plan for a New Patient Records Management Solution. Both the COO, Arvind Kothari and the CFO, Daisy Chacko are of the strong opinion that the company should develop and implement a Custom On-Premise Patient Records Management Solution to be developed by a Top5 IT Firm. On the other hand, Vijay Melanathuru, the CIO is keen to move to a popular SaaS-based Patient Records Management Product. The debate is getting heated as Ms. Chacko recalled past IT system implementation failures.**

**a. What arguments can Ms. Chacko make in favor of opting for an in-house Custom On-Premise Patient Records Management Solution?**

**Answer:**

**Introduction:**

Sunset Years Gericare's top management is debating between a custom on-premise Patient Records Management Solution and a SaaS-based alternative. COO Arvind Kothari and CFO Daisy Chacko advocate for an in-house solution developed by a Top 5 IT firm, citing concerns over control, security, and past IT failures. CIO Vijay Melanathuru, however, prefers a SaaS-based product for flexibility and efficiency. Ms. Chacko can present key arguments in favor of an on-premise solution, focusing on data security, compliance, customization, and long-term cost advantages to support her stance.

**b. What arguments can Mr. Melanathuru make in favor of a SaaS-based Patient Records Management Product?**

**Answer:**

**Introduction:**

Sunset Years Gericare's leadership is divided over the choice of a new Patient Records Management Solution. While COO Arvind Kothari and CFO Daisy Chacko support a custom on-premise solution for control and security, CIO Vijay Melanathuru advocates for a SaaS-based product. Given past IT failures, the debate is intensifying. Mr. Melanathuru can present key arguments highlighting the benefits of a SaaS solution, such as lower upfront costs, faster deployment, automatic updates, scalability, and reduced IT maintenance, making it a cost-effective and efficient choice for the organization.

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