**Cloud Computing**

**NMIMS Solved Assignments for December 2024**

**1. You are invited by the Government of Wakanda 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 Botswana.**

**Answer:**

**Introduction:**

The Government of Wakanda is exploring cloud solutions to enhance its e-governance infrastructure, aiming to reduce total cost of ownership (TCO) and boost scalability. By moving to the cloud, Wakanda seeks a flexible, cost-effective approach to manage public services, streamline operations, and accommodate growing data and user demands. Cloud computing offers different deployment models—public, private, hybrid, and community clouds—each with distinct benefits and limitations. Choosing the right model is critical to meet security, compliance, and cost requirements for government services. This report will analyze the pros and cons of these models, providing insights on which would best align with Wakanda's objectives for efficient, scalable, and secure e-governance.

**This is partially solved sample answer**

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**2. You are the VP of IT at Ramgarh Cooperative Bank (RCB), which has been acquired by BiggBank, one of India’s largest banks. Historically, the Management of RCB has been very conservative regarding their IT Dept., which has been regarded as a Support Function & Cost Center. Hence, RCB’s IT Assets, including several critical Legacy Banking Apps are completely On-Premise.**

**As part of the acquisition, the CIO of BiggBank has asked you to prepare a Cloudification Strategy document. This needs to address (almost) complete migration of all On-Premise Assets to the Cloud and as well, address App Modernization / App of the Legacy Banking Apps. This Cloudification Strategy document needs to answer the following questions…**

**a. Which Cloud Services do you intend to use – i.e., IaaS, PaaS and/or SaaS?**

**b. Which Cloud Service Provider do you feel would be the best fit – i.e., AWS, Azure, or Google App Engine?**

**Prepare an Approach Document to serve as the basis of an Executive Meeting with the BiggBank CIO to discuss this initiative. You may get more details by visiting the web site of these CSPs or you can make your own assumptions.**

**Answer:**

**Introduction:**

As the VP of IT at Ramgarh Cooperative Bank (RCB), recently acquired by BiggBank, my primary task is to align RCB’s IT infrastructure with BiggBank’s digital transformation goals. Historically, RCB’s IT department has been conservative, maintaining all critical legacy banking applications on-premise. However, BiggBank’s acquisition aims to modernize and streamline operations through cloud adoption. This Cloudification Strategy will outline a phased approach for migrating RCB’s on-premise IT assets to the cloud, ensuring seamless integration, enhanced scalability, and cost-efficiency. The strategy document will focus on identifying suitable cloud service models (IaaS, PaaS, SaaS), selecting the optimal cloud provider (AWS, Azure, or Google Cloud), and addressing application modernization, particularly for RCB’s legacy banking systems.

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**3. The Top Management of Hippocrates Pharma is meeting to discuss their plan for a new Production Planning Software. The COO, Mr. Unnithan, and the CFO, Ms. Sinha, are of the strong opinion that the company should develop and implement Customized, On-Premise Production Planning Software to be developed by the Company’s long-term IT Service Provider. This is because Mr. Unnithan feels that the company’s products and processes are unique and need a customized solution.**

**On the other hand, both Ms. Naidu, Head of Sales and Mr. Sandhu, CIO are keen to move to a popular SaaS-based ERP Product and use their Production Planning Module. Mr. Sandhu also intends to use other modules in this ERP for other Departments. The debate is getting heated as Mr. Unnithan also recalled past IT system implementation failures.**

**a. What arguments can Mr. Unnithan make in favor of in-house Custom On-Premise Production Planning Software?**

**Answer:**

**Introduction:**

In a strategic meeting at Hippocrates Pharma, the top management is divided on the development of a new Production Planning Software. The COO, Mr. Unnithan, advocates for a customized, on-premise solution developed by the company’s long-term IT service provider, emphasizing the uniqueness of their products and processes. In contrast, the Head of Sales, Ms. Naidu, and CIO, Mr. Sandhu, prefer a popular SaaS-based ERP product that includes a production planning module, igniting a heated debate over the best path forward for the company.

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**b. What arguments can Mr. Sandhu make in favor of a SaaS-based Production Planning Module?**

**Answer:**

**Introduction:**

In the ongoing debate at Hippocrates Pharma regarding the selection of Production Planning Software, CIO Mr. Sandhu advocates for a SaaS-based ERP solution. He emphasizes the advantages of utilizing a popular ERP product that offers a dedicated production planning module. This approach not only aligns with the industry standards but also facilitates seamless integration with other departmental modules, enhancing overall efficiency. As the discussion heats up, Mr. Sandhu aims to highlight the flexibility, scalability, and cost-effectiveness of adopting a SaaS solution over a customized, on-premise system.

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