# EMC E20-918 Exam

Volume: 96 Questions

Question No : 1
Refer to the exhibit.

| Application | # Users | Bandwidth/User | Application Location | User Location | Storage Protocols | Annual Storage Growth | Annual User Growth | Risk | Regulatory | SLA |
|---|---|---|---|---|---|---|---|---|---|---|
| Messaging | 10000 | 1000 kb/s | Atlanta, London, Dubai | Atlanta, London, Dubai | FC | 50% | 20% | L | SOX | M |
| CRM | 2000 | 5 kb/s | London | Atlanta, London, Dubai | IP | 5% | 5% | M | | L |
| eCommerce | 100000 | 100 kb/s | Atlanta, London, Dubai | Global | IP | 25% | 25% | H | PCI | H |
| Financial | 500 | 50 kb/s | Atlanta | Atlanta | FC | 10% | 20% | H | | L |
| HR | 100 | 100 kb/s | London | London | FC | 5% | 1% | H | | L |
| SAP | 250 | 500 kb/s | Atlanta | Atlanta | FC | 30% | 2% | L | | L |

SLA index:   H=99.999%      M=99.995%        L=99.990%

You have been hired to help plan and perform a migration to an ITaaS environment. The company has offices in Atlanta, Dubai, and London, with 5000, 2000, and 3000 employees, respectively. There is a data center in each location. Ninety percent of the services have been virtualized. The messaging services are provided locally to the users.

An outside vendor has just performed an assessment of the environment. The results are shown in the exhibit.

Part of the strategy is to close one of the data centers and migrate some or all of the services to a public cloud service provider (CSP). Any services that do not get migrated to the CSP will be hosted at one or both of the other two data centers. Network latency averages 8 milliseconds between the Atlanta and London offices, and 10 milliseconds between the London and Dubai offices. Traffic between Atlanta and Dubai is routed through London.

The eCommerce application is external facing. Fifty percent of all the users are in North and South America. These users are serviced by the Atlanta data center. Forty percent of all users arein Europe and Asia. London services those users. Ten percent of all users are in Africa and Australia. The Dubai data center services those users.

You have tentatively chosen a CSP that is housed in Zurich. This CSP would provide 3 Gb/s of network bandwidth to the facility. The CSP's service levels are as follows:
. RPO: 4 hours
. RTO: 1 hour
. Availability: 99.995%
Your recommendation is to close the Dubai data center over a one-year time horizon.
To which location would you migrate the services that are currently hosted in the Dubai data center, and why?

A. Messaging to the public cloud; split eCommerce between London and Atlanta; CSP cannot support the availability for eCommerce

B. eCommerce to the public cloud; Messaging to London; CSP cannot support the bandwidth

requirements for Messaging, and latency will be less from London

C. Messaging and eCommerce to the public cloud; CSP can support availability and bandwidth requirements for both applications

D. eCommerce to the public cloud; Messaging to Atlanta; CSP cannot support the bandwidth requirements for Messaging, and latency will be less from Atlanta

Answer: A


Question No : 2
A company is deploying a major new business application to support the manufacturing line of business. The application development team has difficulty managing the software development lifecycle (SDLC). As a result, the time from generating system requirements to operational delivery is significant.
Which best addresses the company's need for shorter release cycles and better code quality?

A. Transition to a DevOps culture

B. Enhance development tools

C. Utilize configuration management methodologies

D. Use of common automation and orchestration processes

Answer: A


Question No : 3
What is a characteristic of the IT-as-a-Service phase of IT transformation?

A. Automation

B. Chargeback

C. Service level management

D. Shared resource pools

Answer: A


Question No : 4

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A company is transitioning business applications to an IT aaS model. The IT department increasingly need more capacity and better performance at the end of the month, which the current infrastructure cannot deliver. The financial application architecture is three tier (presentation, middleware, and database).

The IT security team has suggested that, with appropriate controls, the presentation layer could be deployed in a public cloud. However, the middleware and database layers cannot be deployed in that way.

What would be the best approach to enabling service elasticity in this scenario?

A. IaaS deployment in the public cloud

B. IaaS deployment in the hybrid cloud

C. IaaS deployment in the private cloud

D. IaaS deployment in the community cloud

Answer: B


Question No : 5
What is a key consideration during design phase for a service provider to ensure that they can effectively process the termination of a service instance?

A. Automate the de-provisioning process to release resources back into the pools.

B. Archive the associated service data regardless of the user requirements.

C. Create a retention period for private user data and user PCI data.

D. Incorporate a service grace period to prevent the actual deletion of the instance.

Answer: A


Question No : 6
An IT organization is currently 80% virtualized and the CIO is planning for the transition to IT aaS. The organization has already experienced significant savings due to virtualization. Senior executives are concerned that IT aaS requires additional investments such as software licenses and headcount, both at significant cost.

How can the CIO convince senior management of the savings potential with IT aaS?

A. Show how the service catalog and orchestration tools can be viewed in the context of "cost to serve" to

provide immediate business value

B. Explain to senior management that there will not be any additional skill sets or investments required for the IT aaS initiative

C. Explain that the service catalog can be a method for controlling cost by influencing consumer behavior through showback/chargeback

D. Propose that the CMDB and orchestration tool will decrease the cost of service delivery.

Answer: C

Question No : 7
A regional accounting and analytics firm headquartered in Seattle, WA has built a profitable business selling a portfolio of financial services to several large enterprises based in the United States. The firm's flagship applications process large volumes of customer financial data within IT operations.
Recently, the firm has established small remote offices in Hong Kong, Seoul, and Beijing to grow their customer base in the Far East.
The business is critically dependent on its data processing capabilities, and recognizes the need for IT aaS transformation. They are seeking guidance on a suitable IT governance model.
What type of model should you recommend, and why?

A. Hybrid by location and application, to eliminate silos and promote growth

B. Distributed by geography, to address different regional regulations

C. Federated by application, to ensure creation of customized services for each application

D. Centralized at headquarters, to maximize security and minimize compliance risk

Answer: B

Question No : 8
Which risk domain is a concern when end users independently leverage public cloud services without involving corporate IT?

A. Control

B. FIPS-140 enforcement

C. Ease of use

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D. Non-repudiation

Answer: A


Question No : 9
You have been asked to assist an aeronautical company in their journey to a hybrid cloud. Your analysis concludes that they should migrate several existing Tier 2 applications to a public cloud provider. You must work within the following constraints:
. Migration can be performed only during weekends
. Only limited downtime is acceptable
. Host and application configuration cannot be changed
. The company needs to keep the costs as low as possible
. Maintain the quality of the user experience
Which solution best addresses these needs?

A. Layer 3 connection over Internet with QoS

B. WAN optimized Layer 3 connection over Internet

C. WAN optimized Layer 2 extension with VPN connection over Internet

D. Layer 2 extension with dedicated link and WAN optimization

Answer: C


Question No : 10
Which network component are trust zones often equated to?

A. DMZ

B. VPN

C. VLAN

D. Firewall

Answer: D


Question No : 11
An enterprise wants to deploy a single sign-on (SSO) solution to utilize within their private cloud

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