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**Vendor:** EMC

**Exam Code:** E20-018

**Exam Name:** Virtualized Data Center and Cloud Infrastructure  
Design Specialist

**Version:** Demo

**QUESTION 1**

What is the first phase of the Virtual Data Center Design Process?

- A. Evaluate technology options
- B. Create plan
- C. Perform initial analysis
- D. Gather data

**Correct Answer:** D

**QUESTION 2**

What is the key business goal when consolidating by business application?

- A. Virtualize the compute environment for efficiency
- B. Identify security gaps and increase security measures
- C. Reduce footprint by decreasing energy and space requirements
- D. Implement converged network technology for performance

**Correct Answer:** A

**QUESTION 3**

A large company with multiple heterogeneous arrays would like to take advantage of the performance simplified management benefits of storage virtualization. They have a data center transformation pain that includes producing power and cooling at a high priority.

Which storage virtualization method would meet their requirements?

- A. Network-based storage tiering
- B. Vertical storage tiering
- C. Server-based storage tiering
- D. Horizontal storage tiering

**Correct Answer:** B

**QUESTION 4**

When using logging to maintain server security, which is the key element for intrusion detection and should be contained the server logs?

- A. Vulnerability scan that identifies susceptible services that are active on the server.
- B. Results of penetration testing through uncover problem probable weaknesses.
- C. An entry for each application transaction with details of the organization.
- D. Alerts to suspicious activities that require further investigation.

**Correct Answer:** D

**QUESTION 5**

What is a key VDC and cloud planning consideration for IT governance?

- A. Change management
- B. Regulations
- C. Separation of duties
- D. Creating trust zones

**Correct Answer:** C

**QUESTION 6**

A midsize company has deployed centralized storage and is currently planning to virtualize their servers. They have considered their application into Tiers, with Tier 1 application requiring the same service and performance levels of the current servers.

They have purchased new, high capacity servers for the virtualized environment and are planning to consolidate several physical servers into a single hypervisor. They are now determining the bandwidth requirements of the application in order to purchase the current number of FCME CNAs for each server.

The results of their analysis for Tier 1 application are as follows:

Average SAN Bandwidth: 3 Gb/s

Average LAN Bandwidth: 2 Gb/s

What is the minimum number of CNAs they would need to install on each server to meet the bandwidth required for the Tier 1 application while providing CAN redundancy and high availability?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer: B**

#### **QUESTION 7**

What are three attributes of a cloud services design?

- A. Web-based APIs, shared resources, minimal capital expenditures
- B. Static service, fixed priced access, improved economics
- C. Accessed via a web portal, self-service, throttled access
- D. Dedicated resources, usage-based pricing, web-based APIs

**Correct Answer: A**

#### **QUESTION 8**

What would you identify as a business application in applying IT as a Service to IT processes?

- A. Defined workflow request processes
- B. Funded as a cost center
- C. Virtual data center best practices
- D. SLA-driven management

**Correct Answer: A**

#### **QUESTION 9**

A development organization uses a PaaS service from a public cloud to develop and test an application. Once sending and verification are complete, the development team discovers that the cloud services uses proprietary software in the PaaS clustering, mailing and deployment of the application within their production data center imposition without significant application records.

What is this type of lock-in called?

- A. Geographical lock-in
- B. Technology lock-in
- C. Cloud lock-in
- D. Vendor lock-in

**Correct Answer: D**

#### **QUESTION 10**

When applying compliance principles to your company's VDC and cloud architectures, how should you

approach your information life cycle management strategy?

- A. Data of reset
- B. Archival and offsite storage
- C. Production and backup
- D. Inception to completion

**Correct Answer:** B

**QUESTION 11**

A customer has implemented a Vblock solution in their primary data centre. They are using a single management tool set to configure and provisions the computer, network, and storage resources within the Vblock.

Which management tool are they using?

- A. EMC ControlCenter
- B. EMC Unisphere
- C. EMC United Infrastructure Manager
- D. VMware vCenter

**Correct Answer:** C

**QUESTION 12**

Which two capacity management objectives often conflict with each other?

- A. Manageability and redundancy
- B. Availability and security
- C. Compliance and efficiency
- D. Efficiency and availability

**Correct Answer:** D

**QUESTION 13**

A customer has asked you to develop a framework for assuming that the cloud Part of this will resume an assessment development.

Where should you look first for assessment criteria and technologies?

- A. International standards
- B. Internal IT development
- C. Company metadata
- D. Industry best practices

**Correct Answer:** D

**QUESTION 14**

What is its approach to addressing performance issues during the Virtualize phrase of the cloud maturity mode?

- A. Selective
- B. Investigative
- C. Proactive
- D. Reactive

**Correct Answer:** D

**QUESTION 15**

Your client is considering a virtualized data center (VDC) as an investment in process improvement.

A VDC can improve the delivery of which business process?

- A. Auditing
- B. Business continuity / disaster recovery
- C. Compliance
- D. Capacity planning / management

**Correct Answer:** D

#### **QUESTION 16**

A company has distributed infrastructure model where each remote office has its own site specific and application servers. These remote offices are all connected to a central data through lines that have a limited amount of bandwidth. The hardware is aging, and the lines will be ending soon.

The company's overall objective is to reduce the number of servers at each location to one physical server.

What is the business driver to Virtualize these systems?

- A. Broad network access
- B. Consolidation
- C. Improved productivity
- D. Operational flexibility

**Correct Answer:** B

#### **QUESTION 17**

The CIO has asked you to review the status of your company's cloud deployment and validates that the implementation has entered the IT-as-a-Service phase.

Which capability must be in place to transmitting to this phase?

- A. Self-service
- B. Policy-driven automation
- C. Chargeback
- D. Zero-touch Infrastructure

**Correct Answer:** B

#### **QUESTION 18**

What is a key benefit to consumers of cloud services?

- A. Start with minimal capital expenditure
- B. Dedicated SAN access to applications
- C. Requires extensive IT skills
- D. No operational expenditure

**Correct Answer:** A

#### **QUESTION 19**

A large enterprise has virtualized heavily and is in the process of implementing configuration management in the virtual infrastructure. One thing that causes a large number of incidents is the movement of virtual guest between physical hosts while maintaining network configuration and security configuration consistency.

Which feature should they implement to ensure consistency of network configuration and security while maintaining virtual machine mobility?

- A. Virtual switches
- B. VLAN tagging
- C. Distributed virtual switches
- D. Port grouping

**Correct Answer:** C

**QUESTION 20**

What caching technique does VPLEX use to ensure that the new write operation take advantage of underlying disk array functionality?

- A. Write-back
- B. Write-through
- C. Flush-on-idle
- D. Cache mirroring

**Correct Answer:** D

**QUESTION 21**

Which consolidation approach involves consolidating by cross departmental needs or requirements?

- A. Cloud
- B. Services
- C. VDC
- D. Application

**Correct Answer:** A

**QUESTION 22**

What is the definition of "cloud services"?

- A. Shared applications, storage, and solutions accessed by a multi-tenant user base.
- B. Access consumed in real time via internet services.
- C. Business applications and real storage provided by and access through public internet services.
- D. Consumer and business products, services, and solution delivered and consumed in real time over the internet.

**Correct Answer:** A

**QUESTION 23**

In the CAP Theorem, what is Partitioning?

- A. Ability to maintain ACID properties or transactions
- B. Ability to respond to all requests successfully
- C. Ability to maintain BASE properties or transactions
- D. Ability to handle lost network connectivity gracefully

**Correct Answer:** D

**QUESTION 24**

A VDC environment is to be deployed with several virtual machines (VMs). The data stores for the VMs will be hosted on a storage array-based local replication that has been proposed as the BC/DR solution. Restore granularity is at the individual VM level. What is the optimal data layout to meet this requirement?

- A. Individual LUNs for each virtual disk
- B. All virtual disks on the boot LUN of the physical disks
- C. Individual LUNS for each VMS virtual disk

D. Single large LUN for all VM virtual disks

**Correct Answer:** C

**QUESTION 25**

A large banking customer has decided to move from a physical to virtual environment. They have been the long processes of gathering data from a storage perspective, what is something they could implement in the near term to help them transform to a virtual environment?

- A. Private cloud federation
- B. Cross-platform power and data center management
- C. Thin provisioning and data deduplication
- D. Provide client-aware services

**Correct Answer:** B

**QUESTION 26**

Which WAN connectivity solution provides the same security options utilized in a local area network (VLAN)?

- A. IP
- B. MPLS
- C. WDM
- D. Dark Fiber

**Correct Answer:** D

**QUESTION 27**

An organization is establishing a second data center and needs to have high speed, low latency LAN and SAN connectivity between the two sites. They are only able to obtain two standards of dark fiber due to the cost.

Which technology will allow them to fulfill their requirements?

- A. FCoE
- B. MPLS
- C. DWDM
- D. FCIP

**Correct Answer:** D

**QUESTION 28**

Which design consideration helps reduce risk when data is co-mingled across different business units in a VDC or between companies or between clouds?

- A. Having a formal disk assessment process
- B. Regulations that specify data that can be co-mingled
- C. Creating trust zones
- D. Creating unique login IDs

**Correct Answer:** B

**QUESTION 29**

Why proper sizing of an in-bound network is based on storage virtualization configuration import?

- A. To prevent single points of failure
- B. To prevent impact to IP network performance
- C. To prevent impact to SAN performance

D. To ensure adequate storage allocation

**Correct Answer:** C

**QUESTION 30**

Which component of a VDI implementation manages the assignments of server-hosted desktops to clients?

- A. Security server
- B. Connector
- C. Resource broker
- D. Transfer server

**Correct Answer:** C

**QUESTION 31**

Which is an example of horizontal scaling a virtual application?

- A. Database virtual server with a standby replica on the same physical server
- B. Web server farm with four virtual servers and one physical server
- C. Database virtual server with a standby replica on another physical server
- D. Web server farm with four virtual servers deployed across four physical servers

**Correct Answer:** D

**QUESTION 32**

A customer has two data centers located within 3 km of each other. They use EMC arrays at one of the data center. They would like to have a consistent view of one or more LUNs.

Which product would you suggest to them?

- A. Atoms
- B. Vblock
- C. VPLEX
- D. VNX

**Correct Answer:** C

**QUESTION 33**

Why is the need for host-based agents a disadvantage in a block storage virtualization environment with on-of band virtualization appliance?

- A. Capacity limitations
- B. Management complexity
- C. Performance concerns
- D. Functional limitations

**Correct Answer:** C

**QUESTION 34**

Which is an example of a hypervisor that does binary translation of sensitive non-virtualized requests but allows for direct execution of user requests?

- A. VMware
- B. Citrix XenServer
- C. Microsoft Hyper V
- D. VMware workstation



**Correct Answer:** C

**QUESTION 35**

A developer has asked you to recommend a Cloud Service Model to run a new home grown application currently in deployment. The application is based upon a programming language that your IT staff has no experience in supporting.

Based upon these requirements, which cloud model would you recommend?

- A. WaaS
- B. SaaS
- C. PaaS
- D. IaaS

**Correct Answer:** C

**QUESTION 36**

A customer has a mission-critical application running on a virtual server that must be continuously available.

Which service should they configure to provide automatic failover, no-disruptive failure recovery, and a secondary running copy of the virtual server?

- A. High Availability
- B. Resource Pooling
- C. Fault Tolerance
- D. Live Migration

**Correct Answer:** C

**QUESTION 37**

An administrator is configuring resources for a self service portal. They have just completed their storage infrastructures categories based on performance.

Which process did the administrator just complete?

- A. Discovery
- B. Pooling
- C. Distribution
- D. GRADING

**Correct Answer:** D

**QUESTION 38**

A hypervisor running virtual servers fails with an unrecoverable error and all virtual server are restarted on another hypervisor. When the application restarts, some data has been lost.

Which type of consistency does this situation represent?

- A. Crash consistency
- B. Full consistency
- C. Eventual consistency
- D. Application consistency

**Correct Answer:** C

**QUESTION 39**

To ensure cost and resource efficiency, your customer is concerned with the configuration management of their IT infrastructure.

Within a service management system, what would contain the most current information about each component of an IT infrastructure?

- A. CMDB
- B. Configuration CMDB
- C. Fed elated CMDB
- D. Asset management system

**Correct Answer:** A

**QUESTION 40**

What error accounts for 99% of the reasons why recovery and availability fail?

- A. Failures in automation scripts
- B. Configuration drift
- C. Failure to test for corrupted Backups
- D. Environmental issues

**Correct Answer:** B

**QUESTION 41**

A customer wants to implement a service to provide their virtual server infrastructure the ability to dynamically migrate virtual machines from on physical host to another physical host.

Which server should they implement?

- A. Distributed Switching
- B. Resource Pooling
- C. High Availability
- D. Live Migrate

**Correct Answer:** D

**QUESTION 42**

A large enterprise has introduced virtualization into a data center. During live Mitigation, several virtual hosts have recognized lost cluster heartbeats and network performance degradation.

Which solution should be implemented to immediate the solution?

- A. Implement load balance on the HBA to improve overall host performance
- B. Implement isolated VLAs to separate management control traffic from production traffic
- C. Implement load balancing on the NICs to improve overall host performance
- D. Implement a distributed virtual switch to separate the data plane from the control plane on the NIC

**Correct Answer:** D

**QUESTION 43**

What is a key business driver for automation in the virtualized data center?

- A. Service-level agreements
- B. Service metric reporting
- C. Change management policy
- D. Technology integration

**Correct Answer:** A

**QUESTION 44**

Your customer is considering upgrade their network to a converged network that would handle their network traffic, storage traffic, and voice traffic.

What are the two benefits when considering a converged network?

- A. Infrastructure cost reduction and security increase
- B. Performance increase and management reduction
- C. Security and performance increase
- D. Infrastructure and operational cost reduction

**Correct Answer:** D

#### **QUESTION 45**

A customer has to improve a test/dev environment infrastructure as quickly as possible, not within weeks or months. They also have limited resources available.

Considering their timeline, what type of infrastructure would they most likely have to choose?

- A. Cloud
- B. International virtualized environment with shared resources
- C. Internal VDC with automation
- D. VDG

**Correct Answer:** A

#### **QUESTION 46**

Which feature allows for the maximum utilization of the I/O and bandwidth available in the network infrastructure?

- A. VLAN tagging
- B. VLAN grouping
- C. Port grouping
- D. Oversubscription

**Correct Answer:** D

#### **QUESTION 47**

What are the two common factors that drive a company to institute a company-wide compliance program?

- A. Execute mandate, private breaches
- B. Regulations, security breaches
- C. Security breaches, privacy breaches
- D. Migrating data to Virtualize data center, security breaches

**Correct Answer:** B

#### **QUESTION 48**

A small law firm that does not currently have any virtualization technologies implemented has currently merged with another firm of approximately the same size. They are planning to consolidate into a single location.

They have decided to virtualize their servers. They would like to consolidate storage but they are concerned about meeting performance of the different applications on a single storage array.

Which storage array feature should be considered to meet their performance requirements?

- A. Virtual LUNs
- B. Virtual Pooling

- C. Virtual Provisioning
- D. Vertical tiering

**Correct Answer:** D

**QUESTION 49**

Which storage requirement would be met with the implementation of traditional (thick) provisioning?

- A. High availability
- B. Energy and capital savings
- C. Space efficiency
- D. Microseconds of performance

**Correct Answer:** D

**QUESTION 50**

Which contractual agreement represents the legal contract with a service provider?

- A. Service level agreement
- B. Non-binding user contract
- C. Terms of service
- D. End-user license agreement

**Correct Answer:** A

**QUESTION 51**

An administrator is managing a virtualized environment that has limited available physical NICs on the hyper host. The hypervisor hosts physical switch ports are configured for VLAN tagging. A new application is being deployed that will need to be on a new subnet.

What should the administrator implement to provide this new subnet for the application servers in the least amount of time?

- A. Add ports to an existing port group
- B. Add virtual switch to the hypervisor host
- C. Add a new port group with an individual VLAN
- D. Add network cards to the hypervisor host

**Correct Answer:** B

**QUESTION 52**

A company is planning the backup strategy for their virtual machine environment. They are considering migrating to an image based backup model.

Where image-based backup would be processed in the environment?

- A. On the virtual server
- B. On a separate host
- C. On the SAN
- D. On the storage array

**Correct Answer:** C

**QUESTION 53**

An organization with 25,000 employees has moved to a new building that contains a fully virtualized data center with a virtual desktop infrastructure (VDI) instituted for all employees. However, each morning between 9:00 am to 9:30, the help desk receives a large number of calls concerning slow performance and timeout issues.

The IT department that the storage array's Fibre Channel drives is the bottleneck. They propose sold purchasing solid state disks (SSDs) to store the entire VDI environment. Unfortunately, their proposed is rejected because of the cost of the drives.

Which array feature should the organization implement to reduce the quality of SSD that are required to service the high I/O bursts of their VCs environment?

- A. Thin Pools
- B. Deduplication
- C. Cache Tiering
- D. Cache Partitioning

**Correct Answer: C**

#### **QUESTION 54**

Consider the following statement

The active distribution of decision-making rights and accountability among different stakeholders in an organization and the rules and procedures for making and monitoring those decisions to determine and achieve delivered behavior and results. Which aspect of cloud computing is expressed by the statement?

- A. Service level management
- B. Enterprise governance
- C. Standards compliance
- D. Risk assessment

**Correct Answer: B**

#### **QUESTION 55**

Your client has a block-based storage virtualization environment. They want to avoid losing data in the event of double disk failure.

Which technology do you suggest they deploy?

- A. RAID 5
- B. Eraser coding
- C. Mirrored RAID
- D. Multipathing

**Correct Answer: B**

#### **QUESTION 56**

Which is primary dimension to consider when performing a risk management?

- A. Quality of exposures
- B. Owner of the asset
- C. Value of the asset
- D. Location of the asset

**Correct Answer: C**

#### **QUESTION 57**

What would you describe is a key characteristic of cloud platform as a Service (PaaS)?

- A. Direct control over the underlying infrastructure
- B. Cloud hosted integrated development environment
- C. Home-grown programming environment
- D. Cloud hosted, in house built tools

**Correct Answer:** B

**QUESTION 58**

What is a key attribute of cloud services?

- A. Manual provisioning
- B. Full pre-allocation
- C. Self-service
- D. Automatic content creation

**Correct Answer:** C

**QUESTION 59**

From a virtualization capacity perspective, what are the top issues?

- A. Forecasting, allocating, timing
- B. Fault tolerance, monitoring, automation
- C. Awareness, optimization, prediction
- D. Allocation, management, monitoring

**Correct Answer:** C

**QUESTION 60**

Which services are typically offered by cloud service providers?

- A. Bundled storage, applications, operating systems
- B. Operating environment, virtualization, applications
- C. Software, platform, infrastructure
- D. Compute, storage, connectivity

**Correct Answer:** C

**QUESTION 61**

Which is an example of vertically scaling a virtual application?

- A. Cluster two database virtual servers on a single physical server
- B. Migrate a database virtual server to a higher-capacity physical server
- C. Migrate a database virtual server to a less-utilized physical server
- D. Cluster two database virtual servers across two physical servers

**Correct Answer:** B

**QUESTION 62**

A company is designing a new database for employee data. The database will store employment age, medical history, education, job history, performance reports, salary, increases and bonuses, and location. The HR department wants to mine the information for patterns of different age groups, pay levels, locations, and so forth.

The architect is concerned about some of this data being collected and stored in one central database and who has access to it.

Where should the architect look for definitions on what information is controlled and what technical protections need to be employed?

- A. Scientific research papers
- B. Industry standards
- C. Best practices

D. Regulations and laws

**Correct Answer:** D

**QUESTION 63**

What is the difference between an FCoE frame and an iSCSI frame?

- A. FCoE operates on 10 Gigabit Ethernet; iSCSI does not
- B. iSCSI uses TCP/IP; FCoE does not
- C. FCoE uses TCP/ IP; iSCSI does not
- D. iSCSI encapsulates a complete FC frame; FCoE does not

**Correct Answer:** B

**QUESTION 64**

An organization is designing a virtual server environment. They have an application that requires a significant amount of communication with a database.

The application and database will be located on different physical servers and configured on the same VLAN.

For performance, both the application and database will have dedicated network adapters. Which virtualization functionality is negatively impacted by bypassing the hypervisor when configuring the dedicated network adapters for the applications?

- A. Data replication
- B. Converged networking
- C. Mobility
- D. Shared storage

**Correct Answer:** C

**QUESTION 65**

How can a hypervisor virtual switch increase the efficiency of a physical network?

- A. By consolidating ports into the physical network
- B. By reducing the amount of data transmitted to the physical network
- C. Through port aggregation to isolate VMs to another VLAN
- D. By increasing the bandwidth of the physical network

**Correct Answer:** B

**QUESTION 66**

A company has just experienced an outage in their environment as a result of a configuration change that propagated across the entire environment.

What would you recommend to prevent similar outages in the future?

- A. Standardize the environment on a single operating system to reduce risk and simplify changes
- B. Mandate that all configuration changes comply with FIPS Level 3
- C. Encrypt all configuration management servers and configure ACLs to allow access to only a subset of administrators
- D. Configure resources to a known state and use a CMDB to ensure that the initial state is maintained

**Correct Answer:** D

**QUESTION 67**

A software manufacturer is planning to convert their VDC to IaaS. As part of the transformation to IaaS the company realizes they have to make several organizational changes.

Which is the most likely starting point for their organizational transformation?

- A. Cross train IT operations and delivery personnel
- B. Create new service based roles in the lines of business
- C. Align GRC and Trust requirements
- D. Obtain executive and organizational buy-in

**Correct Answer:** D

**QUESTION 68**

A hypervisor running several virtual servers crashes, and all virtual servers are restarted on another hypervisor.

When the applications restart, they replay log files to bring data up to date.

Which type of consistency does this situation represent?

- A. Eventual consistency
- B. Offline consistency
- C. Crash consistency
- D. Application consistency

**Correct Answer:** D

**QUESTION 69**

To address security concerns when configuring a server, why should you avoid the use of non- persistent disks?

- A. Increasing the RAID level reduces the number of points that can be attacked
- B. Security limits vMotion flexibility
- C. Disk segmentation reduces the risk of security attacks
- D. A system reboot can remove traces of attacks

**Correct Answer:** D

**QUESTION 70**

Governance, risk, compliance, and security are all related and yet they differ.

Which two attributes are governance attributes?

- A. IT, business exposures
- B. Access to information, enforcement
- C. Confidentiality, integrity
- D. Organizational structures, processes

**Correct Answer:** D

**QUESTION 71**

What is typically included with an IaaS bundle featuring compute, storage, and networking?

- A. Encryption technology
- B. Management tools
- C. Integrated development environment
- D. Storage virtualization

**Correct Answer:** B



**QUESTION 72**

A customer wants to ensure that their critical application can fail over to another physical host within the cluster without disruption.

Which feature should be utilized?

- A. Storage vMotion
- B. Distributed Resource Scheduler
- C. Fault Tolerance
- D. High Availability

**Correct Answer: C**

**QUESTION 73**

An administrator has implemented a hypervisor cluster with high availability enabled. They are expecting that if any of the physical servers fail, the virtual servers will be transparently migrated to other hypervisors in the cluster.

When the first hypervisor failure occurs, all of the hosted virtual servers appear offline to users as they are moved to another host.

What feature should the administrator have implemented to achieve his goal?

- A. Load Balancing
- B. Live Migration
- C. Fault Tolerance
- D. Distributed Resource Scheduling

**Correct Answer: C**

**QUESTION 74**

A company moved to a new building that contains a fully virtualized data center. They purchased a building 10 km away and decide to build a second data center at that location. The new data center will be identical to the first, and applications and services will be mobile between the locations.

Which WAN connectivity option would provide both the best performance for virtual server mobility across sites?

- A. MPLS
- B. Dark Fiber
- C. IP
- D. WDM

**Correct Answer: B**

**QUESTION 75**

A customer is determining whether to divest resources into a third-party cloud solution. They are concerned about what will happen should they decide to migrate their data back in-house.

Which contractual agreement defines this scenario?

- A. Service-level agreement
- B. End-user license agreement
- C. Non-binding user contract
- D. Termination agreement

**Correct Answer: D**

**QUESTION 76**

Why is it beneficial to define tier criteria during the data center inventory and data gathering process?

- A. To define recovery time objectives
- B. To define service-level objectives
- C. To define service-level agreements
- D. To define recovery point objectives

**Correct Answer:** B

**QUESTION 77**

From an IT business layer perspective, what do you gain by consolidating at the application layer?

- A. Reduced transactional storage
- B. Reduced footprint
- C. Inter-array tiering
- D. Increased compute power

**Correct Answer:** B

**QUESTION 78**

Why is it important to identify business objectives prior to planning and designing a virtual infrastructure?

- A. IT objectives are the same as business objectives
- B. IT objectives drive business objectives
- C. IT objectives are linked to business objectives
- D. Business objectives are a higher priority than IT objectives

**Correct Answer:** C

**QUESTION 79**

A customer is determining whether the risk involved in migrating in-house data to a third-party cloud provider is acceptable.

Which step should be performed after the initial evaluation of the asset?

- A. Run a full risk assessment
- B. Leverage standards to mitigate risks
- C. Run a second asset evaluation
- D. Deploy the environment

**Correct Answer:** B

**QUESTION 80**

Your customer is primarily concerned with asset discovery and a reconciled view of all infrastructure components and the dependencies between them. Which type of architecture would you recommend?

- A. Change management system
- B. CMDB
- C. Asset management system
- D. Federated CMDB

**Correct Answer:** D

**QUESTION 81**

What can the consumer manage and control when subscribing to cloud Software as a Service (SaaS)?

- A. OS settings

- B. Network settings
- C. Application settings
- D. API module

**Correct Answer:** C

**QUESTION 82**

Which two governing bodies focus on developing cloud standards?

- A. ISO, CSA
- B. NIST, (ISC)2
- C. CSA, ENISA
- D. NIST, ISO

**Correct Answer:** C

**QUESTION 83**

A company is planning an image-based backup solution for their virtual server environment, and would like to continue to use their existing backup software.

Which software feature is critical to reducing the amount of data that is backed up?

- A. File-level snapshot
- B. Open file plug-in
- C. Deduplication
- D. Changed file tracking

**Correct Answer:** C

**QUESTION 84**

Which properties define a cloud environment?

- A. Self-service, dedicated leased services in-house
- B. Dedicated, but privatized, virtualized data center technologies in-house
- C. Power, connectivity, physical security
- D. Self-service, Internet served computing, shared resources, pay as you use

**Correct Answer:** D

**QUESTION 85**

What cloud characteristic provides computing resources that facilitate multiple consumers using a multi-tenant model, with different physical and virtual components that are dynamically assigned and reassigned based on demand?

- A. On-demand self-service
- B. Resource pooling
- C. Rapid elasticity
- D. Measured service

**Correct Answer:** B

**QUESTION 86**

Questions such as "How would you classify the sensitivity of your data?" and "What is the value of this application data?" are examples of which kind of sample risk score questions?

- A. Management
- B. Business
- C. Information security

D. Disaster recovery

**Correct Answer:** B

**QUESTION 87**

A customer has three VMware ESX hosts in a cluster. They need to configure the virtual guest servers to restart automatically on an alternate host if the original host becomes unavailable. Which service should be configured on the cluster?

- A. Resource Pooling
- B. Live Migration
- C. Load Balancing
- D. High Availability

**Correct Answer:** D

**QUESTION 88**

In an attempt to save money, the IT department of a midsize company is identifying opportunities for consolidation.

What are three valid approaches they could take?

- A. Cloud application services, VDC, VMware
- B. Commoditized hardware and software, outsource backups, isolate client groups
- C. VDC, cloud, services
- D. Services, servers, modular hardware

**Correct Answer:** C

**QUESTION 89**

The corporate data center has role segregation between network, security, and OS/systems administrators.

The OS/system administrators also are responsible for the OSs running on hypervisors, and the hypervisors themselves. The company wants to keep the roles segregated.

Which virtualized switch should they use so that the network administrators can manage the switches without logging in to the virtualized environments?

- A. Brocade ED-10000
- B. Third-party virtual switch
- C. VMware vDistributed switch
- D. Basic VMware vSwitch

**Correct Answer:** B

**QUESTION 90**

Your customer is a law firm of about 500 people. They have decided to purchase a storage array. The IT staff wants to implement a converged network instead of the traditional LAN and SAN model.

What benefit of FCoE/converged networking can they present to the CTO to obtain approval for implementing this technology?

- A. Increased bandwidth
- B. Improved fault tolerance
- C. Increased distance capabilities
- D. Reduced operational expenses

**Correct Answer:** D

**QUESTION 91**

After virtualizing an x86 server workload, users report that a custom application is performing poorly. You investigate the issue and find that the resources on the host do not appear to be constrained. However, you discover that the application on the guest operating system has an abnormally high number of context switches.

What should you do to resolve the issue?

- A. Deploy additional hosts
- B. Move to a Type 2 hypervisor
- C. Use software-assisted virtualization
- D. Turn on hardware virtualization in the BIOS

**Correct Answer:** D

**QUESTION 92**

Infinite scalability, no boundaries, operational efficiency, self-management, and self-healing are key infrastructure requirements of which type of storage?

- A. Virtualized
- B. Enterprise
- C. Cloud
- D. Commodity

**Correct Answer:** C

**QUESTION 93**

Which EMC product can automatically promote data into a caching tier of Enterprise Flash Drive (EFD) storage to enable rapid access of data that may see infrequent bursts of activity?

- A. VPLEX
- B. Atmos
- C. VNX
- D. FMA

**Correct Answer:** C

**QUESTION 94**

Which statement is true of Atmos?

- A. REST is the only method for storing content
- B. File system access requires FMA
- C. Provides universal access regardless of location
- D. Data is securely isolated via single tenancy

**Correct Answer:** C

**QUESTION 95**

Which type of switch can provide management functions for virtual machine ports?

- A. Distributed virtual switch
- B. Standard virtual switch
- C. Physical switch
- D. Third-party virtual switch

**Correct Answer:** D

**QUESTION 96**

Which method of storage virtualization provides the added benefit of wide striping?

- A. Virtual LUN Migration
- B. Virtual Provisioning
- C. Server-based storage virtualization
- D. Storage tiering

**Correct Answer:** B

**QUESTION 97**

Questions such as "Where is this application hosted?" and "How are support and escalation processes performed for this application?" are examples of which kind of sample score questions when considering utilizing a service provider?

- A. Disaster recovery
- B. Information security
- C. Management
- D. Business

**Correct Answer:** B

**QUESTION 98**

A large enterprise has virtualized heavily in their data center. All virtual machines in the enterprise are built from standardized baseline templates. Based on these image templates, they have set configuration best practices and implementation workflows.

Recently, the company has started to see performance issues on several production-critical virtual guests. In responding to the performance issues, the cause was found to be incorrectly configured vNIC parameters in the virtual guests.

Which service should be implemented to identify deviations in the deployed servers from the baseline templates, and to remediate any such deviations?

- A. Change management reporting
- B. CMDB automation
- C. Policy-driven configuration management
- D. Incident management runbook automation

**Correct Answer:** C

**QUESTION 99**

You are an EMC UIM administrator. You are in discussions with a business unit manager about how they want to create service offerings for their organization.

What might you recommend?

- A. Configure zone sets
- B. Use a LAN or SAN boot
- C. Grade the types of network access
- D. Do not grade the types of storage

**Correct Answer:** D

**QUESTION 100**

An administrator is configuring resources for a self-service portal. They have just completed grouping their storage resources into three categories, based on the organization's corporate structure.

Which process did the administrator just complete?

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