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QUESTION 1

A systems administrator audits a cloud application and discovers one of the key regulatory requirements has not been addressed. The requirement states that if a physical breach occurs and hard drives are stolen, the contents of the drives should not be readable. Which of the following should be used to address the requirement?

A. Obfuscation

B. Encryption

C. EDR

D. HIPS

Correct Answer: B

Explanation: Encryption is the process of transforming data into an unreadable format using a secret key or algorithm. Encryption can be used to protect data at rest or in transit from unauthorized access or theft. If a physical breach occurs

and hard drives are stolen, encryption can prevent the contents of the drives from being readable by anyone who does not have the decryption key or algorithm.

References: [CompTIA Cloud+ Study Guide], page 236.

QUESTION 2

A systems administrator would like to reduce the network delay between two servers.

Which of the following will reduce the network delay without taxing other system resources?

A. Decrease the MTU size on both servers

B. Adjust the CPU resources on both servers

C. Enable compression between the servers

D. Configure a VPN tunnel between the servers

Correct Answer: A

The maximum transmission unit (MTU) is the largest size of a packet or frame that can be sent over a network. Decreasing the MTU size on both servers can reduce the network delay between them, as it can reduce the fragmentation and reassembly of packets, improve the transmission efficiency, and avoid packet loss or errors. Decreasing the MTU size can also avoid taxing other system resources, as it does not require additional CPU, memory, or disk resources. References: CompTIA Cloud+ Certification Exam Objectives, page 16, section 3.2

Reference: https://cseweb.ucsd.edu/~calder/papers/HPDC-01-DynComp.pdf

QUESTION 3

A systems administrator is analyzing a report of slow performance in a cloud application. This application is working behind a network load balancer with two VMs, and each VM has its own digital certificate configured. Currently, each VM is consuming 85% CPU on average. Due to cost restrictions, the administrator cannot scale vertically or horizontally in the environment.

Which of the following actions should the administrator take to decrease the CPU utilization? (Choose two.)

A. Configure the communication between the load balancer and the VMs to use a VPN.

B. Move the digital certificate to the load balancer.

C. Configure the communication between the load balancer and the VMs to use HTTP.

D. Reissue digital certificates on the VMs.

E. Configure the communication between the load balancer and the VMs to use HTTPS.

F. Keep the digital certificates on the VMs.

Correct Answer: BE

By moving the digital certificate to the load balancer, the system administrator is offloading the processing of the SSL/TLS encryption to the load balancer and not the VMs. This can help to decrease the CPU utilization on the VMs. Additionally, configuring the communication between the load balancer and the VMs to use HTTPS also eliminates the need to process encryption on the VMs, this will also decrease the CPU utilization on the VMs.

QUESTION 4

Which of the following should be considered for capacity planning?

A. Requirements, licensing, and trend analysis

B. Laws and regulations

C. Regions, clusters, and containers

D. Hypervisors and scalability

Correct Answer: A

These are the factors that should be considered for capacity planning in a cloud environment. Capacity planning is a process of estimating and allocating the necessary resources and performance to meet the current and future demands of

cloud applications or services. Capacity planning can help to optimize costs, efficiency, and reliability of cloud resources or services. The factors that should be considered for capacity planning are:

Requirements: These are the specifications or expectations of the cloud applications or services, such as functionality, availability, scalability, security, etc. Requirements can help to determine the type, amount, and quality of resources or

services needed to meet the objectives and goals of the cloud applications or services.

Licensing: This is the agreement or contract that grants customers the right to use or access certain cloud resources or services for a specific period or fee. Licensing can affect the cost, availability, and compliance of cloud resources or

services. Licensing can help to determine the budget, duration, and scope of using or accessing cloud resources or services.

Trend analysis: This is the technique of analyzing historical and current data to identify patterns, changes, or fluctuations in demand or usage of cloud resources or services. Trend analysis can help to predict and anticipate future demand or

usage of cloud resources or services, as well as identify any opportunities or challenges that may arise.

QUESTION 5

A user reports a poor-quality remote VDI session. Which of the following should the help desk technician do FIRST to troubleshoot the issue?

A. Check the FAQ section of the vendor\\'s documentation.

B. Ask the user if the client device or access location has changed.

C. Reboot the user\\'s virtual desktop.

D. Request permission to log in to the device remotely.

Correct Answer: B

Asking the user if the client device or access location has changed is what the help desk technician should do first to troubleshoot poor-quality remote VDI (Virtual Desktop Infrastructure) session. VDI is a technology that allows users to access virtual desktops hosted on remote servers over a network or internet connection. VDI can provide users with flexibility, mobility, and security, but it may also introduce quality issues depending on various factors, such as: The client device: This is the device that users use to access their virtual desktops, such as a laptop, tablet, smartphone, etc. The client device can affect VDI quality by determining how well it can support and display virtual desktop applications and services, as well as how fast it can process and send data over a network or internet connection. The access location: This is where users access their virtual desktops from, such as home, office, public place, etc. The access location can affect VDI quality by determining how stable and secure their network or internet connection is, as well as how much latency or interference they may experience. Asking the user if these factors have changed can help to troubleshoot poor-quality remote VDI session by identifying any potential causes or sources of quality issues, as well as suggesting any possible solutions or alternatives.

QUESTION 6

A company is migrating workloads from on premises to the cloud and would like to establish a connection between the entire data center and the cloud environment. Which of the following VPN configurations would accomplish this task?

A. Site-to-site

B. Client-to-site

C. Point-to-site

D. Point-to-point

Correct Answer: A

QUESTION 7

A systems administrator is securing a new email system for a large corporation. The administrator wants to ensure private corporate information is not emailed to external users. Which of the following would be MOST useful to accomplish this task?

A. DLP

B. EDR

C. DNSSEC

D. SPF

Correct Answer: A

The most useful tool to prevent private corporate information from being emailed to external users is data loss prevention (DLP). DLP is a type of security solution that monitors and controls the flow of data in and out of a system or network. It can detect and prevent unauthorized access, transmission, or leakage of sensitive data, such as personal information, financial records, or intellectual property. DLP can also enforce encryption, masking, or deletion of sensitive data to protect its confidentiality. Reference: CompTIA Cloud+ Certification Exam Objectives, Domain 2.0 Security, Objective 2.5 Given a scenario, apply data security techniques in the cloud.

QUESTION 8

A company recently subscribed to a SaaS collaboration service for its business users. The company also has an on-premises collaboration solution and would like users to have a seamless experience regardless of the collaboration solution being used.

Which of the following should the administrator implement?

A. LDAP

B. WAF

C. VDI

D. SSO

Correct Answer: D

Single sign-on (SSO) is a type of authentication mechanism that allows users to access multiple systems or applications with a single login credential. SSO can help users have a seamless experience regardless of the collaboration solution being used, as it can eliminate the need for multiple logins and passwords for different systems or applications. SSO can also improve user convenience, productivity, and security, as it can simplify the login process, reduce login errors, and enhance password management. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

QUESTION 9

A cloud administrator is provisioning five VMs, each with a minimum of 8GB of RAM and a varying load throughout the

day. The hypervisor has only 32GB of RAM. Which of the following features should the administrator use?

A. Memory overcommitment

B. Thin-provisioned model

C. Process scheduling

D. Hyperthreading

Correct Answer: C

QUESTION 10

An engineer is responsible for configuring a new firewall solution that will be deployed in a new public cloud environment. All traffic must pass through the firewall. The SLA for the firewall is 99.999%. Which of the following should be deployed?

A. Two load balancers behind a single firewall

B. Firewalls in a blue-green configuration

C. Two firewalls in a HA configuration

D. A web application firewall

Correct Answer: C

Deploying two firewalls in a HA (High Availability) configuration is the best option to ensure all traffic passes through the firewall and meets the SLA (Service Level Agreement) of 99.999%. HA is a design principle that aims to minimize downtime and ensure continuous operation of a system or service. HA can be achieved by using redundancy, failover, load balancing, clustering, etc. Two firewalls in a HA configuration can provide redundancy and failover in case one firewall fails or becomes overloaded.

QUESTION 11

A cloud administrator would like to deploy a cloud solution to its provider using automation techniques. Which of the following must be used? (Choose two.)

A. Auto-scaling

B. Tagging

C. Playbook

D. Templates

E. Containers

F. Serverless

Correct Answer: CD

Playbook and templates are two things that must be used to deploy a cloud solution to its provider using automation techniques. A playbook is a file or script that defines a set of tasks or actions to be executed on one or more cloud resources or systems. A playbook can automate and standardize the deployment and configuration of cloud solutions using tools such as Ansible, Chef, Puppet, etc. A template is a preconfigured image or blueprint of a cloud resource or system that contains an OS, applications, settings, etc., that can be used to create new resources or systems quickly and consistently. A template can simplify and speed up the deployment of cloud solutions using tools such as AWS CloudFormation, Azure Resource Manager, Google Cloud Deployment Manager, etc.

QUESTION 12

A systems administrator is troubleshooting a VDI deployment that is used to run high- frame-rate rendering. Users are reporting frequent application crashes. After running a benchmark, the administrator discovers the following:

GPU utilization	30%
Video RAM utilization	99%
GPU mode	Mixed

Which of the following should the administrator do to resolve this issue?

A. Configure the GPU to run in compute mode.

B. Allocate more RAM in the VM template.

C. Select a higher vGPU profile.

D. Configure the GPU to run in graphics mode.

Correct Answer: C

Explanation: The benchmark results show that the video RAM utilization is at 99%, which is likely causing the application crashes. Video RAM is used to store graphics data and textures that are processed by the GPU. Selecting a higher vGPU profile can help allocate more video RAM to the virtual machines, which can help resolve this issue. A vGPU profile is a predefined configuration that specifies the amount of video RAM, the number of display heads, and the maximum resolution that a virtual machine can use. By selecting a higher vGPU profile, the administrator can increase the performance and stability of the high- frame-rate rendering application. References: [CompTIA Cloud+ CV0-003 Study Guide], Chapter 4, Objective 4.2: Given a scenario, troubleshoot common virtualization issues.

QUESTION 13

A cloud administrator is reviewing the authentication and authorization mechanism implemented within the cloud environment. Upon review, the administrator discovers the sales group is part of the finance group, and the sales team members can access the financial application. Single sign-on is also implemented, which makes access much easier.

Which of the following access control rules should be changed?

A. Discretionary-based

B. Attribute-based

C. Mandatory-based

D. Role-based

Correct Answer: D

Role-based access control (RBAC) is a type of access control model that assigns permissions and privileges to users based on their roles or functions within an organization or system. RBAC can help simplify and streamline the management and enforcement of access policies, as it can reduce the complexity and redundancy of assigning permissions to individual users or groups. RBAC can also help improve security and compliance, as it can limit or grant access based on the principle of least privilege and the separation of duties. RBAC is the best access control rule to change when the sales group is part of the finance group and the sales team members can access the financial application due to a single sign-on mechanism being implem

Reference: https://www.ekransystem.com/en/blog/rbac-vs-abac

QUESTION 14

A systems administrator needs to implement a way for users to verify software integrity. Which of the following tools would BEST meet the administrator\\'s needs?

A. TLS 1.3

B. CRC32

C. AES-256

D. SHA-512

Correct Answer: D

Reference: https://en.wikipedia.org/wiki/SHA-2

QUESTION 15

A company that performs passive vulnerability scanning at its transit VPC has detected a vulnerability related to outdated web-server software on one of its public subnets. Which of the following can the company use to verify if this is a true positive with the least effort and cost? (Select two).

A. A network-based scan

B. An agent-based scan

C. A port scan

D. A red-team exercise

E. A credentialed scan

F. A blue-team exercise

G. Unknown environment penetration testing

Correct Answer: AE