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QUESTION 1

A cloud administrator wants to provision a host with two VMs. The VMs require the following: After configuring the servers, the administrator notices that during certain hours of the day, the performance heavily degrades. Which of the following is the best explanation?

	Host	VM1	VM2
NIC	1Gbps	1Gbps	1Gbps
CPU	4	1	1
RAM	8	2	2
Storage (thin provisioned)	2TB	1.5TB	1.2TB
Storage utilization		22.5%	50%
Daily network traffic		1.2TB	200GB

- A. The host requires additional physical CPUs.
- B. A higher number of processes occur at those times.
- C. The RAM on each VM is insufficient.
- D. The storage is overutilized.

Correct Answer: C

Given the provided table, the VMs have been allocated 2GB of RAM each, which may be insufficient for their workload, especially during peak hours which could lead to performance degradation. Insufficient RAM can cause the VMs to use swap space on disk, which is significantly slower and can lead to poor performance.

References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg.

QUESTION 2

Which of the following is used to detect signals and measure physical properties, such as the temperature of the human body?

- A. Beacon
- B. Transmission protocols
- C. Sensors



D. Gateways

Correct Answer: C

Sensors are used to detect signals and measure physical properties, such as temperature. They are devices that respond to a physical stimulus (like heat, light, sound, pressure, magnetism, or a particular motion) and transmit a resulting

impulse for detection and measurement.

References: The use of sensors in cloud environments, particularly in IoT (Internet of Things) applications, is included in the technical domains of the CompTIA Cloud+ material.

QUESTION 3

A company has decided to adopt a microservices architecture for its applications that are deployed to the cloud. Which of the following is a major advantage of this type of architecture?

- A. Increased security
- B. Simplified communication
- C. Reduced server cost
- D. Rapid feature deployment

Correct Answer: D

A major advantage of adopting a microservices architecture is rapid feature deployment. Microservices allow for independent development, deployment, and scaling of individual service components, enabling teams to bring new features to market more quickly and efficiently compared to monolithic architectures. References: The CompTIA Cloud+ certification covers cloud design aspects, including architectural models like microservices, emphasizing their role in facilitating agile development practices and rapid feature release cycles in cloud environments.

QUESTION 4

A systems administrator is configuring backups on a VM and needs the process to run as quickly as possible, reducing the bandwidth on the network during all times from Monday through Saturday. In the event of data corruption, the management team expects the mean time to recovery to be as low as possible.

Which of the following backup methods can the administrator use to accomplish these goals?

- A. Incremental backup daily to the cloud
- B. Full backup on Sunday and incremental backups on all other days of the week
- C. Differential backup daily to the cloud
- D. Incremental backups during off-hours on Monday, Wednesday, and Friday

Correct Answer: B

To achieve a quick backup process and reduce bandwidth use, the administrator should perform a Full backup on



Sunday and incremental backups on all other days of the week. This method ensures that only the changes made since the last full backup are copied, reducing the amount of data that needs to be transferred each time, and thus the time and bandwidth required. References: CompTIA Cloud+ Study Guide (V0-004) by Todd Montgomery and Stephen Olson

QUESTION 5

A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

- A. Cryptojacking
- B. Human error
- C. DDoS
- D. Phishing

Correct Answer: C

Elevated response times without reported issues or changes internally could indicate a Distributed Denial of Service (DDoS) attack, where multiple systems flood the bandwidth or resources of a targeted system, usually one or more web servers. References: CompTIA Security+ Guide to Network Security Fundamentals by Mark Ciampa.

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