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QUESTION 1

Two CVEs are discovered on servers in the company\\'s public cloud virtual network. The CVEs are listed as having an attack vector value of network and CVSS score of 9.0. Which of the following actions would be the best way to mitigate the vulnerabilities?

A. Patching the operating systems

B. Upgrading the operating systems to the latest beta

C. Encrypting the operating system disks

D. Disabling unnecessary open ports

Correct Answer: A

For vulnerabilities with a high CVSS score and a network attack vector, the most effective and direct mitigation action is to patch the operating systems. Patching addresses the specific vulnerabilities that have been identified and helps to

secure the servers against the known exploits that could take advantage of these CVEs.

References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

QUESTION 2

A security engineer Identifies a vulnerability m a containerized application. The vulnerability can be exploited by a privileged process to read tie content of the host\\'s memory. The security engineer reviews the following Dockerfile to determine a solution to mitigate similar exploits:

FROM alpine:3.17 RUN apk update andand apk upgrade COPY ./myapp ENTRYPOINT ["/myapp/app"]

Which of the following is the best solution to prevent similar exploits by privileged processes?

A. Adding the USER myappuserinstruction

B. Patching the host running the Docker daemon

C. Changing FROM alpiner3.17 to FROM alpine:latest

D. Running the container with the ready-only filesystem configuration

Correct Answer: A

Adding the "USER myappuser" instruction to the Dockerfile is the best solution to prevent similar exploits by privileged processes. This instruction ensures that the container runs as a non-privileged user instead of the root user, significantly reducing the risk of privileged exploits. Running containers with least privilege principles minimizes the potential impact of vulnerabilities, enhancing the overall security posture of the containerized environment.References: The CompTIA Cloud+ framework includes security concerns, measures, and concepts for cloud operations, highlighting the importance of container security practices, such as running containers as non-root users to prevent unauthorized access and exploitation.

QUESTION 3

HOTSPOT

A highly regulated business is required to work remotely and the risk tolerance is very low. You are tasked with providing an identity solution to the company cloud that includes the following:
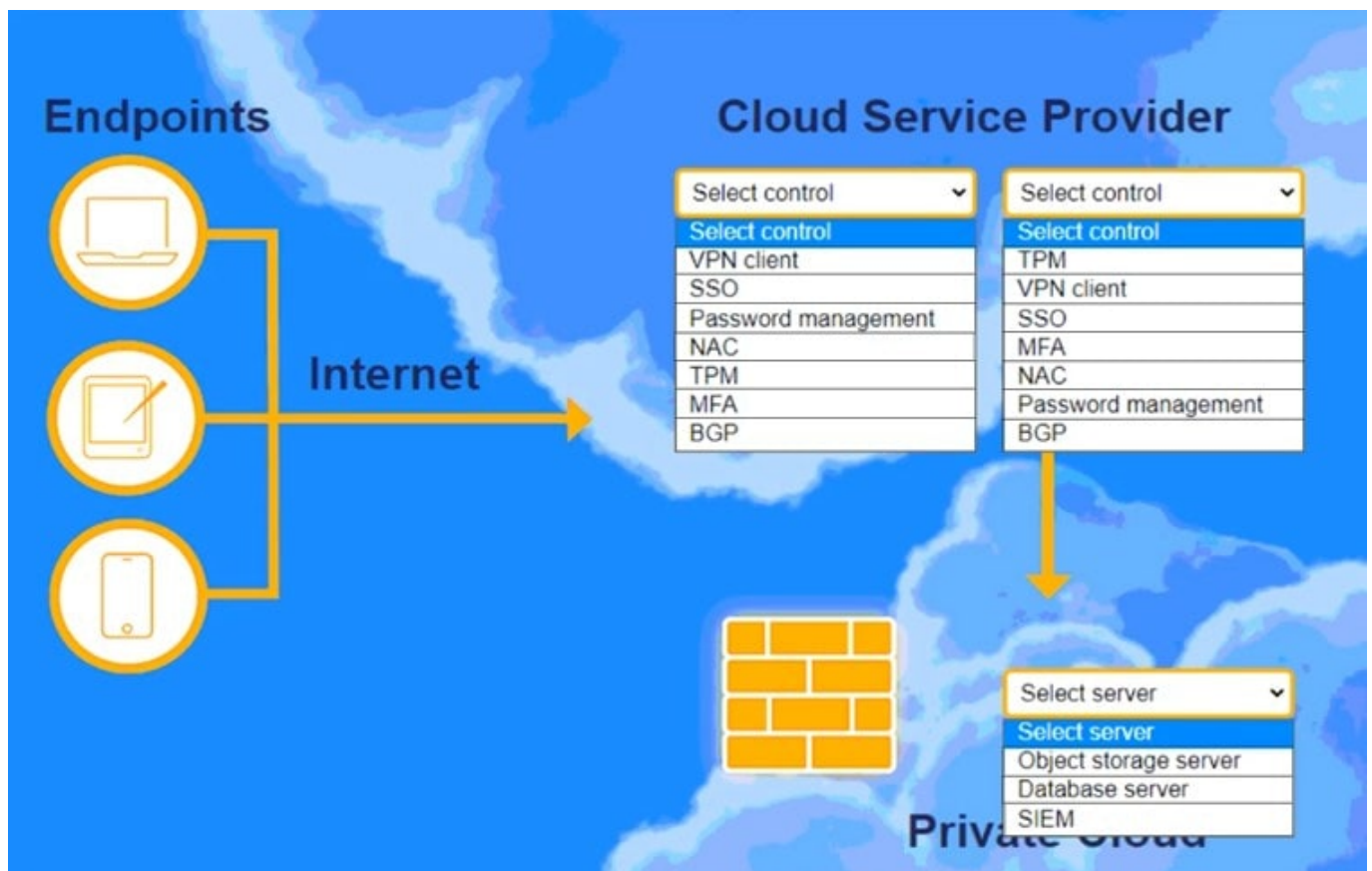
1.

secure connectivity that minimizes user login

2.

tracks user activity and monitors for anomalous activity

3.

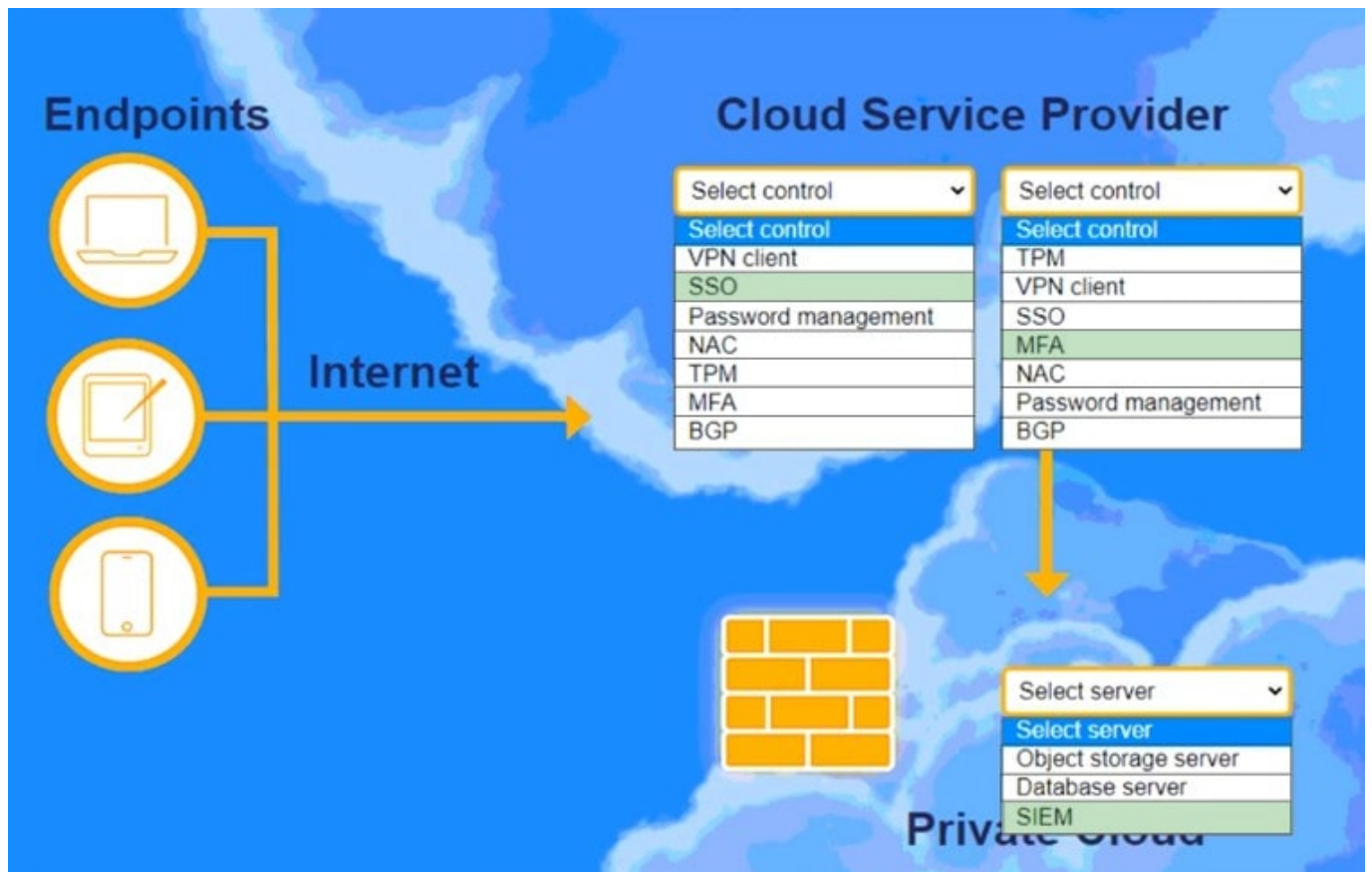requires secondary authentication

INSTRUCTIONS

Select controls and servers for me proper control points.

It at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Hot Area:

Correct Answer:

QUESTION 4

A company is required to save historical data for seven years. A cloud administrator implements a script that automatically deletes data older than seven years.

Which of the following concepts best describes why the historical data is being deleted?

A. End of life

B. Data loss prevention

C. Cost implications

D. Tiered storage for archiving

Correct Answer: A

Deleting historical data older than seven years as described is an example of data end of life (EOL) policies in action. These policies dictate when data is no longer needed or relevant and should be securely disposed of, often for compliance,

legal, or cost- saving reasons.

References: CompTIA Cloud+ resources and data management strategies

QUESTION 5

A company is concerned it will run out of VLANs on its private cloud platform in the next couple months, and the product currently offered to customers requires the company to allocate three dedicated, segmented tiers.

Which of the following can the company implement to continue adding new customers and to maintain the required level of isolation from other tenants?

A. GRE

B. SR-IOV

C. VXLAN

D. IPSec

Correct Answer: C

One possible solution for the company to continue adding new customers and to maintain the required level of isolation from other tenants is to implement VXLAN. VXLAN is a network virtualization technology that can extend VLAN by adding a 24-bit segment ID, which allows up to 16 million unique virtual segments. VXLAN can encapsulate layer 2 Ethernet frames within layer 3 IP packets, and tunnel them across the underlying network. VXLAN can provide logical isolation and security for different tenants, as well as scalability and flexibility for large cloud computing environments1.

QUESTION 6

A systems administrator notices a surge of network traffic is coming from the monitoring server. The administrator discovers that large amounts of data are being downloaded to an external source. While investigating, the administrator reviews the following logs:

Protocol	Local address	Foreign address	State
TCP	10.181.12.5:20	172.17.250.12	ESTABLISHED
TCP	10.181.12.5:22	172.32.58.39	ESTABLISHED
TCP	10.181.12.5:443	172.30.252.204	ESTABLISHED
TCP	10.181.12.5:4443	10.11.15.82	ESTABLISHED
TCP	10.181.12.5:8048	172.24.255.192	TIME_WAIT

Which of the following ports has been compromised?

A. Port 20

B. Port 22

C. Port 443

D. Port 4443

E. Port 8048

Correct Answer: E

Based on the logs provided, the port that has been compromised is Port 8048. The state "TIME_WAIT" indicates that this port was recently used to establish a connection that has now ended. This could be indicative of the recent activity where large amounts of data were downloaded to an external source, suggesting a potential security breach.
References: CompTIA Cloud+ Study Guide (V0-004) by Todd Montgomery and Stephen Olson

QUESTION 7

An organization is hosting a seminar with eight individuals who need to connect to their own dedicated VM. The technician used the following VM configurations:

IP address: DHCP NIC: 1Gbps Network: 10.1.10.0/29

Several users are unable to access their VMs. Which of the following best describes the reason?

A. Not enough addresses are available.

B. The routes are misconfigured.

C. Too much traffic is on the network.

D. DHCP is not working correctly on the VM.

Correct Answer: A

The network is configured with a subnet of /29, which provides only 6 usable IP addresses after accounting for the network and broadcast addresses. With eight individuals needing to connect to their own dedicated VMs, there are not enough IP addresses available to assign to each VM, leading to several users being unable to access their VMs. This issue is not related to misconfigured routes, network traffic, or DHCP functionality, but rather the limited number of IP addresses available in the given subnet.

QUESTION 8

A cloud administrator recently created three servers in the cloud. The goal was to create ACLs so the servers could not communicate with each other. The servers were configured with the following IP addresses:

	Server 1	Server 2	Server 3
IP address	172.16.12.7	172.16.12.14	172.16.13.4
Subnet mask	255.255.255.240	255.255.255.240	255.255.255.240
Default gateway	172.16.12.1	172.16.12.17	172.16.13.15

After implementing the ACLs, the administrator confirmed that some servers are still able to reach the other servers. Which of the following should the administrator change to prevent the servers from being on the same network?

A. The IP address of Server 1 to 172.16.12.36

B. The IP address of Server 1 to 172.16.12.2

C. The IP address of Server 2 to 172.16.12.18

D. The IP address of Server 2 to 172.16.14.14

Correct Answer: B

To prevent the servers from being on the same network and communicating with each other, the administrator should change the IP address of Server 1 to 172.16.12.2. This IP address is outside the subnet defined by the subnet mask 255.255.255.240, which would place Server 1 on a different subnet, preventing direct communication without routing. References: CompTIA Cloud+ Study Guide (V0-004) by Todd Montgomery and Stephen Olson

QUESTION 9

A cloud engineer is deploying a server in a cloud platform. The engineer reviews a security scan report. Which of the following recommended services should be disabled? (Select two).

A. Telnet

B. FTP

C. Remote log-in

D. DNS

E. DHCP

F. LDAP

Correct Answer: AB

Telnet and FTP are recommended services to be disabled when deploying a server in a cloud platform, as they are insecure protocols that transmit data in plain text and expose credentials and sensitive information to potential attackers12.

Remote log-in, DNS, DHCP, and LDAP are not necessarily recommended to be disabled, as they may provide useful functionality for the server and the cloud environment. However, they should be configured properly and secured with

encryption, authentication, and authorization mechanisms34.

References: CompTIA Cloud+ CV0-003 Exam Objectives, Objective 4.2: Given a scenario, apply security configurations and compliance controls ; CompTIA Quick Start Guide to Tackling Cloud Security Concerns3

QUESTION 10

A company needs to rehost its ERP system to complete a datacenter migration to the public cloud. The company has already migrated other systems and configured VPN connections.

Which of the following MOST likely needs to be analyzed before rehosting the ERP?

A. Software

B. Licensing

C. Right-sizing

D. The network

Correct Answer: B

QUESTION 11

A company experienced a data leak through its website. A security engineer, who is investigating the issue, runs a vulnerability scan against the website and receives the following output:

```
Nmap scan report for www.example.com (93.184.216.34)
Host is up (0.020s latency).

PORT STATE SERVICE
21/tcp open ftp
443/tcp open ssl/https
1119/tcp closed bnetgame
1935/tcp closed rtmp
```

Which of the following is the most likely cause of this leak?

A. RTMP port open

B. SQL injection

C. Privilege escalation

D. Insecure protocol

Correct Answer: D

The data leak is most likely caused by the use of an insecure protocol. The vulnerability scan output shows that port 21/tcp for FTP (File Transfer Protocol) is open. FTP is known for transmitting data unencrypted, which could allow sensitive data to be intercepted during transfer.References: The security risks associated with the use of insecure or unencrypted protocols are covered under cloud security best practices in the CompTIA Cloud+ curriculum.

QUESTION 12

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 13

An administrator is setting up a cloud backup solution that requires the following features:

4.

Cost effective

5.

Granular recovery

6.

Multilocation

Which of the following backup types best meets these requirements?

A. Off-site, full, incremental, and differential

B. Cloud site, full, and differential

C. On-site. full, and incremental

D. On-site. full, and differential

Correct Answer: A

An off-site cloud backup solution that offers full, incremental, and differential backups would best meet the requirements of being cost-effective, allowing granular recovery, and supporting multi-location storage. This combination allows for

comprehensive backup strategies that can be tailored to the company\\'s needs while optimizing storage costs.

References: Backup strategies, including full, incremental, and differential backups, are an integral part of data management and protection strategies discussed in the CompTIA Cloud+ objectives.

QUESTION 14

An IT manager is migrating the production environment to the cloud but needs to keep control of the operating systems, patches, and settings of all resources. Which of the following deployment models will best meet the requirements?

A. FaaS

B. PaaS

C. laaS

D. SaaS

Correct Answer: C

Infrastructure as a Service (IaaS) is the deployment model that will best meet the requirements of retaining control over the operating systems, patches, and settings of all resources. IaaS provides the cloud infrastructure but leaves the management of the operating system and applications to the user.References: The cloud service models and the level of control they offer are fundamental topics in the CompTIA Cloud+ certification material.

QUESTION 15

Which of the following is the most cost-effective and efficient strategy when migrating to the cloud?

A. Retire

B. Replatform

C. Retain

D. Refactor

Correct Answer: A

The most cost-effective and efficient strategy when migrating to the cloud can often be to \\'retire\\' or turn off legacy systems that are no longer useful or necessary. This avoids spending resources on migrating and maintaining systems that do not provide value in a cloud environment.References: Cloud migration strategies, including retiring outdated

systems, are part of the decision-making process for cloud adoption in the CompTIA Cloud+ certification material.

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