

CV0-004^{Q&As}

CompTIA Cloud+ (2024)

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QUESTION 1

Which of the following will best reduce the cost of running workloads while maintaining the same performance? (Select two).

- A. Instance size
- B. Tagging
- C. Reserved resources model
- D. Spot instance model
- E. Pay-as-you-go model
- F. Dedicated host model

Correct Answer: CD

The Reserved resources model offers cost savings for committed use over a long term, which can reduce costs while maintaining performance for predictable workloads. The Spot instance model allows users to take advantage of unused capacity at lower prices, offering significant cost savings, though with the possibility of instances being terminated when demand rises. Both models can be strategically used to optimize costs without compromising performance.

QUESTION 2

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 3

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 4

A cloud administrator is choosing a backup schedule for a new application platform that creates many small files. The backup process impacts the performance of the application, and backup times should be minimized during weekdays.

Which of the following backup types best meets the weekday requirements?

- A. Database dump
- B. Differential
- C. Incremental
- D. Full

Correct Answer: C

QUESTION 5

A company's website suddenly crashed. A cloud engineer investigates the following logs:

```
webbapp_access.log
...
2023-04-03 16:45:00 GET /home?x=213
2023-04-03 16:45:01 GET /home?x=6544
2023-04-03 16:45:02 GET /home?x=52455
2023-04-03 16:45:03 GET /home?x=56
2023-04-03 16:45:04 GET /home?x=7895
...
2023-04-03 16:47:00 GET /home?x=3986 502
2023-04-03 16:47:01 GET /home?x=2461 502
```

Which of the following is the most likely cause of the issue?

- A. SQL injection
- B. Cross-site scripting
- C. Leaked credentials
- D. DDoS

Correct Answer: D

The logs indicate a sudden surge in access requests to the website's homepage, followed by 502 errors, which are indicative of server overload or failure to handle incoming requests. This pattern is typical of a Distributed Denial of Service (DDoS) attack, where multiple compromised systems flood the target with traffic, exceeding its capacity to handle requests, leading to service disruption.

QUESTION 6

Department supervisors have requested a report that will help them understand the utilization of cloud resources, make decisions about budgeting for the following year, and reduce costs.

Which of the following are the most important requisite steps to create the report? (Select two).

- A. Set the desired retention of resource logs.
- B. Configure application tracing.
- C. Integrate email alerts with ticketing software.
- D. Enable resource tagging.
- E. Configure the collection of performance/utilization logs.
- F. Configure metric threshold alerts.

Correct Answer: DE

To create a report that helps understand the utilization of cloud resources, make budget decisions, and reduce costs, the most important steps are to enable resource tagging and configure the collection of performance/utilization logs. Resource tagging helps in categorizing and tracking costs by associating tags with resources, while performance/utilization logs are essential for analyzing resource usage over time. References: CompTIA Cloud+ Study

Guide (V0004) - Chapter on Cloud Management

QUESTION 7

After accidentally uploading a password for an IAM user in plain text, which of the following should a cloud administrator do FIRST? (Choose two.)

- A. Identify the resources that are accessible to the affected IAM user
- B. Remove the published plain-text password
- C. Notify users that a data breach has occurred
- D. Change the affected IAM user's password
- E. Delete the affected IAM user

Correct Answer: BD

The first step a cloud administrator should take after accidentally uploading a password for an IAM user in plain text is to remove the published plain-text password. This should be done immediately to prevent unauthorized access to the affected user's resources. The administrator should then change the password for the affected IAM user to a new, strong password. This will ensure that the user's resources are secure and that there is no unauthorized access.

A. Identifying the resources that are accessible to the affected IAM user is important, but it should not be done before removing the plain-text password and changing the password for the affected user. This step can be taken after the immediate security concerns have been addressed.

C. While it is important to notify users of a data breach, this step is not necessary in this situation as the password was accidentally uploaded and there is no evidence that any unauthorized access has occurred. However, the cloud administrator should review their security protocols to ensure that similar incidents do not occur in the future.

E. Deleting the affected IAM user is not necessary in this situation, as the user's resources can be secured by changing the password. Deleting the user may cause unnecessary disruption to the user's workflow and could result in the loss of important data.

In summary, the first step a cloud administrator should take after accidentally uploading a password for an IAM user in plain text is to remove the published plain-text password, followed by changing the password for the affected user.

QUESTION 8

A company wants to use a solution that will allow for quick recovery from ransomware attacks, as well as intentional and unintentional attacks on data integrity and availability.

Which of the following should the company implement that will minimize administrative overhead?

- A. Object versioning
- B. Data replication
- C. Off-site backups
- D. Volume snapshots

Correct Answer: D

Implementing volume snapshots is an effective solution for quick recovery from ransomware attacks and protecting data integrity and availability. Snapshots capture the state of a storage volume at a point in time and can be used to restore data quickly with minimal administrative overhead. References: Data protection strategies like volume snapshots are discussed under cloud data management and protection in the CompTIA Cloud+ objectives.

QUESTION 9

Which of the following cloud deployment models is the best way to replicate a workload non-disruptively between on-premises servers and a public cloud?

- A. Public
- B. Community
- C. Private
- D. Hybrid

Correct Answer: D

A hybrid cloud deployment model is the best way to replicate workloads non-disruptively between on-premises servers and a public cloud. This model integrates on-premises infrastructure, or private clouds with public clouds, allowing data and applications to be shared between them. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Deployment Models

QUESTION 10

A company that requires full administrative control at the OS level is considering the use of public cloud services. Which of the following service models would BEST fit the company's requirements?

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

Correct Answer: D

IaaS (Infrastructure as a Service) is a public cloud service model that provides access to fundamental compute, network, and storage resources on demand over the public Internet or through dedicated connections. Customers can provision and configure these resources according to their needs, and they have full administrative control at the OS level. This means that customers can install, update, and manage any software or applications they want on the cloud servers, as well as apply their own security and compliance policies. IaaS is suitable for companies that require high flexibility and customization of their cloud infrastructure, as well as scalability and cost-efficiency.

QUESTION 11

A systems administrator is writing a script for provisioning nodes in the environment. Which of the following would be BEST for the administrator to use to provision the authentication credentials to the script?

- A. `password=\\curl https://10.2.3.4/api/sytemops?op=provision\\`
- B. `password=$env_password`
- C. `password=$(cat /opt/app/credentials)`
- D. `password="MyS3cretP4sswordlsVeryL0ng"`

Correct Answer: B

QUESTION 12

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:

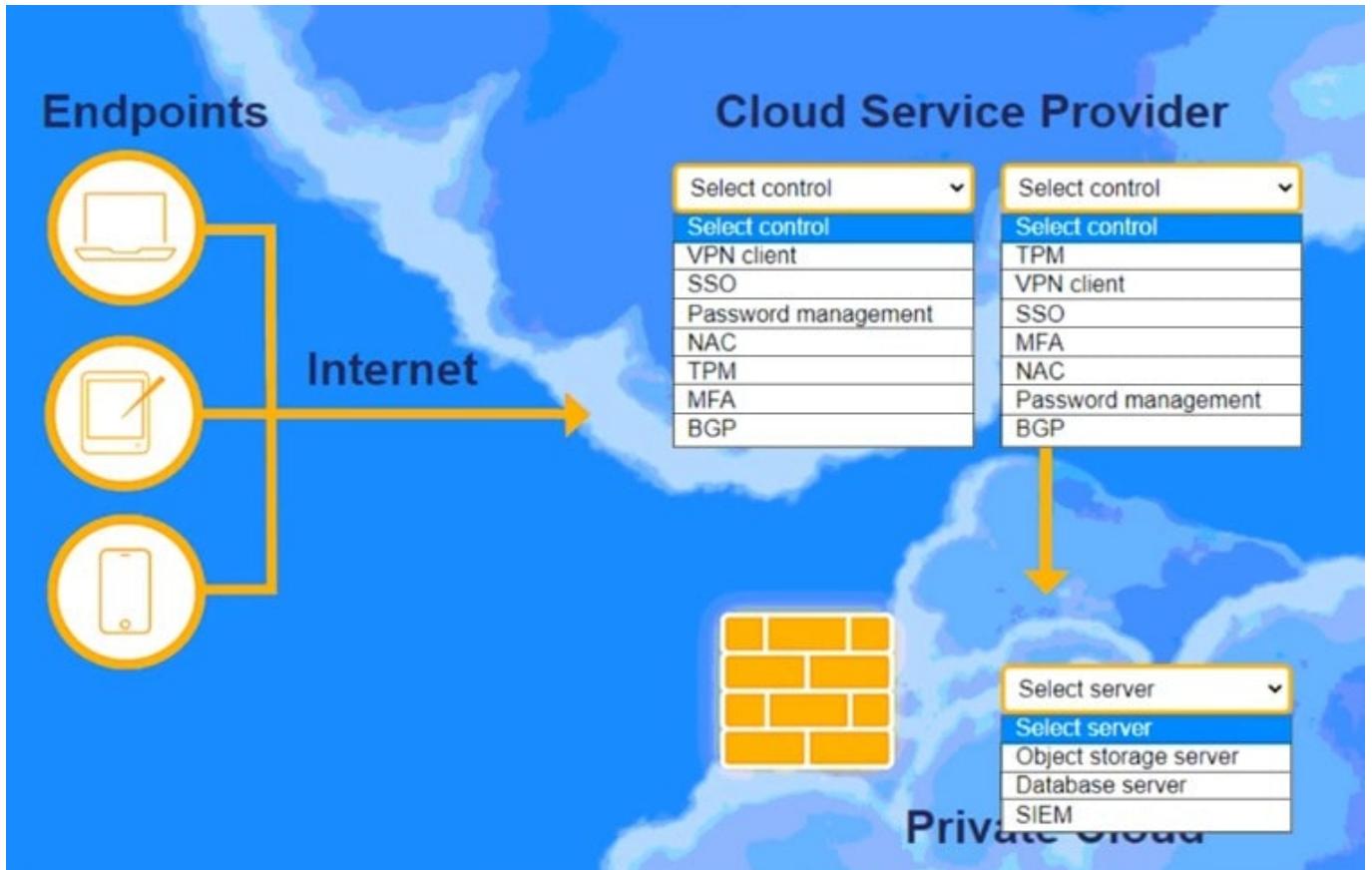
1.
secure connectivity that minimizes user login
2.
tracks user activity and monitors for anomalous activity
3.
requires secondary authentication

INSTRUCTIONS

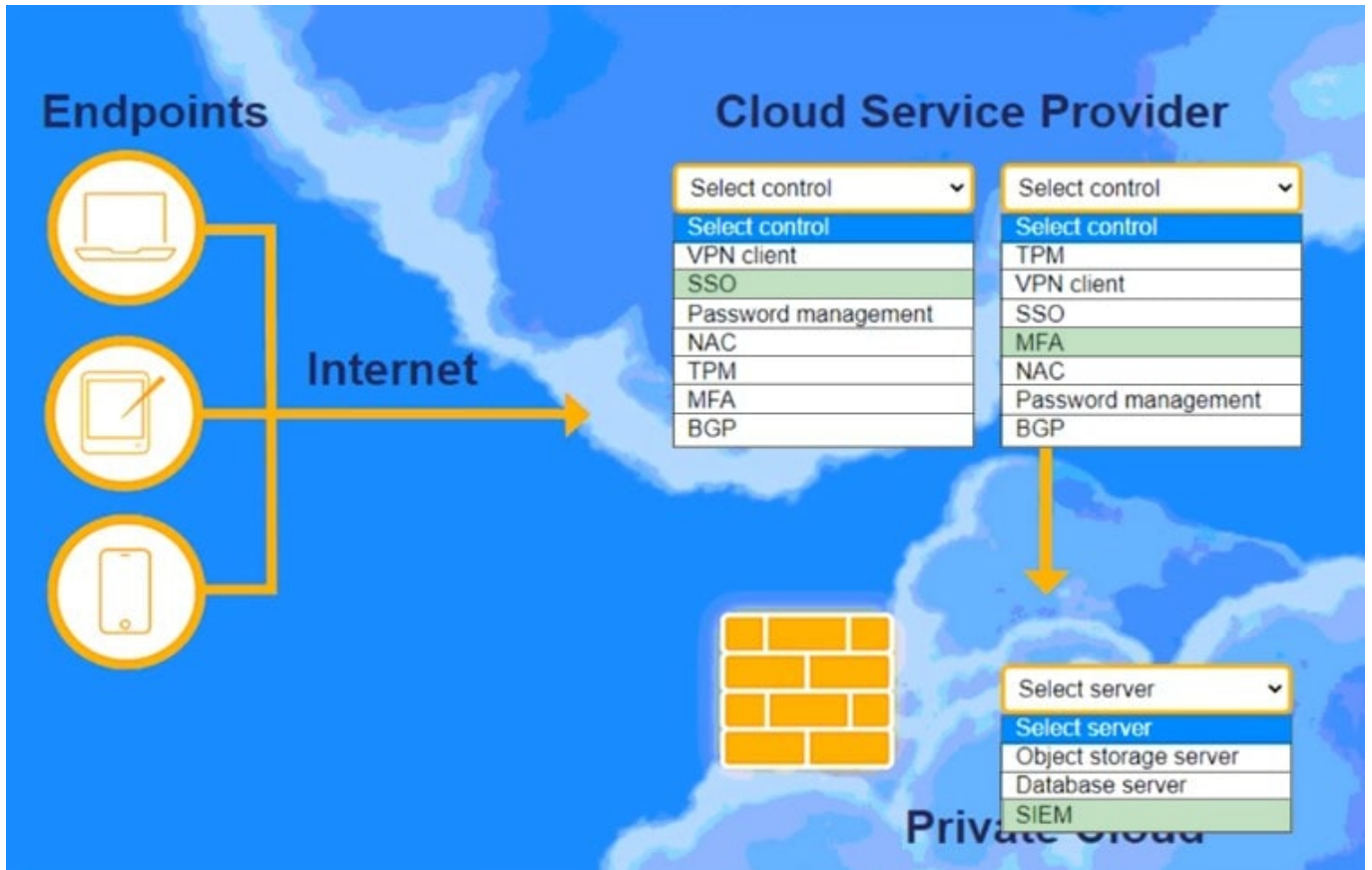
Select controls and servers for me proper control points.

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 13

A company's engineering department is conducting a month-long test on the scalability of an in-house-developed software that requires a cluster of 100 or more servers. Which of the following models is the best to use?

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

Correct Answer: D

For testing the scalability of an in-house-developed software that requires a cluster of 100 or more servers, Infrastructure as a Service (IaaS) is the best model. IaaS provides the necessary computer resources and allows the engineering department to configure the environment as needed for their specific test without the constraints that might be present in PaaS or SaaS offerings. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Service Models

QUESTION 14

A cloud networking engineer is troubleshooting the corporate office's network configuration. Employees in the IT and

operations departments are unable to resolve IP addresses on all devices, and the IT department cannot establish a connection to other departments' subnets. The engineer identifies the following configuration currently in place to support the office network: Each employee needs to connect to the network with a maximum of three hosts. Each subnet must be segregated, but the IT department must have the ability to communicate with all subnets.

Subnet	Department	Employees
10.1.20.1/24	Finance	50
10.1.30.1/24	IT	90
10.1.40.1/24	Legal	30
10.1.50.1/24	Operations	100

Which of the following meet the IP addressing and routing requirements? (Select two).

- A. Modifying the subnet mask to 255.255.254.0 for IT and operations departments
- B. Configuring static routing to allow access from each subnet to 10.1.40.1
- C. Modifying the BYOD policy to reduce the volume of devices that are allowed to connect to the corporate network
- D. Configuring static routing to allow access from 10.1.30.1 to each subnet
- E. Combining the subnets and increasing the allocation of IP addresses available to support three hosts for each employee
- F. Modifying the subnet mask to 255.255.255.128 for the IT and operations departments

Correct Answer: DF

To meet the requirements of allowing the IT department to communicate with all subnets while keeping each department segregated and ensuring a maximum of three hosts per employee, two actions are required. First, configuring static

routing from the IT subnet (10.1.30.1) to each of the other subnets would establish the necessary connectivity. Second, modifying the subnet mask to 255.255.255.128 for the IT and operations departments would provide the needed

number of host addresses while maintaining subnet segregation.

References: This solution is based on networking and subnetting principles, which are part of the foundational knowledge for cloud networking within the CompTIA Cloud+ framework.

QUESTION 15

A cloud engineer is exploring options to reduce the management overhead of the servers and network. Which of the following cloud service models should the engineer implement?

- A. SaaS
- B. XaaS
- C. PaaS

D. IaaS

Correct Answer: C

Platform as a Service (PaaS) provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app.

Adopting PaaS can significantly reduce the management overhead of servers and networks.

References: CompTIA Cloud Essentials+ Certification Study Guide (LO-002) by Scott Wilson.

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