

## CV0-003<sup>Q&As</sup>

CompTIA Cloud+ Certification

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**QUESTION 1**

Which of the following cloud services is fully managed?

- A. IaaS
- B. GPU in the cloud
- C. IoT
- D. Serverless compute
- E. SaaS

Correct Answer: E

SaaS (Software as a Service) is a cloud service model that provides fully managed applications to the end users. The users do not have to worry about installing, updating, or maintaining the software, as the cloud provider handles all these tasks. Examples of SaaS are Gmail, Office 365, Salesforce, etc.

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**QUESTION 2**

A systems administrator is troubleshooting performance issues with a VDI environment. The administrator determines the issue is GPU related and then increases the frame buffer on the virtual machines. Testing confirms the issue is solved, and everything is now working correctly. Which of the following should the administrator do NEXT?

- A. Consult corporate policies to ensure the fix is allowed
- B. Conduct internal and external research based on the symptoms
- C. Document the solution and place it in a shared knowledge base
- D. Establish a plan of action to resolve the issue

Correct Answer: C

Documenting the solution and placing it in a shared knowledge base is what the administrator should do next after troubleshooting performance issues with a VDI (Virtual Desktop Infrastructure) environment, determining that the issue is GPU (Graphics Processing Unit) related, increasing the frame buffer on the virtual machines, and testing that confirms that the issue is solved and everything is now working correctly. Documenting the solution is a process of recording and describing what was done to fix or resolve an issue, such as actions, steps, methods, etc., as well as why and how it worked. Placing it in a shared knowledge base is a process of storing and organizing documented solutions in a central location or repository that can be accessed and used by others. Documenting the solution and placing it in a shared knowledge base can provide benefits such as: Learning: Documenting the solution and placing it in a shared knowledge base can help to learn from past experiences and improve skills and knowledge. Sharing: Documenting the solution and placing it in a shared knowledge base can help to share information and insights with others who may face similar issues or situations. Reusing: Documenting the solution and placing it in a shared knowledge base can help to reuse existing solutions for future issues or situations.

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**QUESTION 3**

A technician is working with an American company that is using cloud services to provide video-based training for its customers. Recently, due to a surge in demand, customers in Europe are experiencing latency.

Which of the following services should the technician deploy to eliminate the latency issue?

- A. Auto-scaling
- B. Cloud bursting
- C. A content delivery network
- D. A new cloud provider

Correct Answer: C

<https://www.cloudflare.com/learning/cdn/what-is-a-cdn/> "A content delivery network (CDN) refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content."

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#### QUESTION 4

A cloud administrator is designing a multiregion network within an IaaS provider. The business requirements for configuring the network are as follows:

1.  
Use private networking in and between the multisites for data replication.
2.  
Use low latency to avoid performance issues.

Which of the following solutions should the network administrator use within the IaaS provider to connect multiregions?

- A. Peering
- B. Gateways
- C. VPN
- D. Hub and spoke

Correct Answer: A

Peering is a type of network connection that allows two or more networks to exchange traffic directly without using an intermediary or a third-party service. Peering can help connect multiregions within an IaaS provider, as it can enable private networking in and between the multisites for data replication. Peering can also provide low latency, as it can reduce the number of hops and distance between the networks. Peering is the best solution for designing a multiregion network within an IaaS provider to support business requirements. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8

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#### QUESTION 5

A systems administrator is troubleshooting issues with network slowness. Traffic analysis shows that uplink bandwidth

on the core switch is often sustained at 125Mbps due to a combination of production traffic from other sources. Which of the following would BEST resolve the issue?

- A. Turn off the servers that use the most bandwidth.
- B. Enable QoS to prioritize production traffic.
- C. Increase the buffer size on the core switch.
- D. Reboot the core switch.

Correct Answer: B

The best solution to resolve the issue of network slowness caused by high uplink bandwidth utilization on the core switch is to enable quality of service (QoS) to prioritize production traffic over other types of traffic. QoS is a mechanism that allows network administrators to classify and manage network traffic according to its importance, latency, bandwidth, and reliability requirements. By enabling QoS, the core switch can allocate more resources and guarantee better performance for production traffic, while limiting or dropping less critical traffic. Reference: CompTIA Cloud+ Certification Exam Objectives, Domain 4.0 Troubleshooting, Objective 4.1 Given a scenario, troubleshoot connectivity issues related to cloud implementations.

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#### QUESTION 6

A cloud solutions architect needs to determine the best strategy to deploy an application environment in production, given the following requirements:

1.

No downtime

2.

Instant switch to a new version using traffic control for all users

Which of the following deployment strategies would be the BEST solution?

- A. Hot site
- B. Blue-green
- C. Canary
- D. Rolling

Correct Answer: B

Blue-green is the best deployment strategy to deploy an application environment in production, given the requirements of no downtime and instant switch to a new version using traffic control for all users. Blue-green is a deployment strategy that involves having two identical environments, one running the current version of the application (blue) and one running the new version of the application (green). The traffic is directed to the blue environment by default, while the green environment is tested and verified. When the new version is ready to go live, the traffic is switched to the green environment using a router or load balancer, without any downtime or interruption. The blue environment can be kept as a backup or updated with the new version for future deployments.

Reference: <https://thenewstack.io/deployment-strategies/>

**QUESTION 7**

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: D

The network is the set of devices, connections, protocols, and configurations that enable communication and data transfer between different systems and applications. The network can affect the rehosting of an ERP system to complete a datacenter migration to the public cloud, as it can influence factors such as bandwidth, latency, availability, security, and compatibility. The network needs to be analyzed before rehosting the ERP system to ensure that the network requirements and specifications are met, the network performance and reliability are maintained or improved, and the network security and integrity are preserved or enhanced. References: CompTIA Cloud+ Certification Exam Objectives, page 18, section 3.5

**QUESTION 8**

A company is utilizing a private cloud solution that is hosted within its datacenter. The company wants to launch a new business application, which requires the resources below:

Maximum concurrent sessions	Number of nodes required	Required per-node vCPU	Required per-node RAM
1,000	2	4	32
5,000	4	6	64
10,000	6	8	64
25,000	8	8	128

The current private cloud has 30 vCPUs and 512GB RAM available. The company is looking for a quick solution to launch this application, with expected maximum sessions to be close to 24,000 at launch and an average of approximately

5,000 sessions.

Which of the following solutions would help the company accommodate the new workload in the SHORTEST amount of time and with the maximum financial benefits?

- A. Configure auto-scaling within the private cloud
- B. Set up cloud bursting for the additional resources
- C. Migrate all workloads to a public cloud provider

D. Add more capacity to the private cloud

Correct Answer: B

Cloud Bursting can be used for both compute and storage. This question is about compute capability. "Compute Bursting" unleashes the high-performance compute capabilities of the cloud for processing locally created datasets. (reference:

<https://www.ctera.com/it-initiatives/cloud-bursting/>)

<https://azure.microsoft.com/en-us/overview/what-is-cloud-bursting/>

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### QUESTION 9

A systems administrator needs to configure monitoring for a private cloud environment. The administrator has decided to use SNMP for this task.

Which of the following ports should the administrator open on the monitoring server's firewall?

A. 53

B. 123

C. 139

D. 161

Correct Answer: D

Port 161 is the default port used by Simple Network Management Protocol (SNMP) to communicate with network devices and collect information about their status, performance, configuration, and events. Opening port 161 on the monitoring server's firewall will allow SNMP traffic to pass through and enable monitoring for a private cloud environment. If port 161 is closed or blocked, SNMP traffic will be denied or dropped, resulting in a failure to monitor the network devices. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8

Reference: <https://thwack.solarwinds.com/t5/NPM-Discussions/SNMP-open-ports-on-the-firewall/m-p/168826>

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### QUESTION 10

A cloud administrator is supporting an application that has several reliability issues. The administrator needs visibility into the performance characteristics of the application. Which of the following will MOST likely be used in a reporting dashboard?

A. Data from files containing error messages from the application

B. Results from the last performance and workload testing

C. Detail log data from syslog files of the application

D. Metrics and time-series data measuring key performance indicators

Correct Answer: D

Reference: <https://mode.com/blog/kpi-metrics-tracking-and-reporting/>

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### QUESTION 11

A systems administrator is troubleshooting an application that is configured to auto-scale with a minimum of two nodes and a maximum of four. The application will scale out if the CPU utilization of one of the nodes exceeds 80% for more than five minutes and will scale in if the CPU utilization of one of the nodes drops under 20% for more than ten minutes. There is a reverse proxy in front of the application. The systems administrator notices two of the nodes are often running over 80% for a long period of time, which is triggering the creation of the other two nodes; however, they are being created and terminated while the load in the first two remains over 50% all the time. Which of the following should the administrator configure to fix this issue?

- A. Disable DNS caching in the reverse proxy.
- B. Reduce the minimum node count to one.
- C. Disable TLS tickets.
- D. Reduce the scale-out rule to 50%.
- E. Increase the scale-in rule to 50%.

Correct Answer: A

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### QUESTION 12

Company A has acquired Company B and is in the process of integrating their cloud resources. Company B needs access to Company A's cloud resources while retaining its IAM solution. Which of the following should be implemented?

- A. Multifactor authentication
- B. Single sign-on
- C. Identity federation
- D. Directory service

Correct Answer: C

Identity federation is a type of authentication mechanism that allows users to access multiple systems or applications across different domains or organizations with a single login credential. Identity federation can help integrate the cloud resources of Company A and Company B after Company A has acquired Company B, as it can enable seamless and secure access to both companies' cloud resources using the same IAM solution. Identity federation 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

Reference: <https://medium.com/@dinika.15/identity-federation-a-brief-introduction-f2f823f8795a>

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**QUESTION 13**

Which of the following is a hardening technique that an administrator would perform when creating a standard VM template that would be used for deploying servers in a production environment?

- A. Create a standard user account
- B. Disable unneeded services
- C. Establish a performance baseline
- D. Follow change management process

Correct Answer: D

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**QUESTION 14**

A company has decided to get multiple compliance and security certifications for its public cloud environment. However, the company has few staff members to handle the extra workload, and it has limited knowledge of the current infrastructure.

Which of the following will help the company meet the compliance requirements as quickly as possible?

- A. DLP
- B. CASB
- C. FIM
- D. NAC

Correct Answer: B

A cloud access security broker (CASB) is a type of security solution that acts as a gateway between cloud service users and cloud service providers. A CASB can help a company get multiple compliance and security certifications for its public cloud environment, as it can provide visibility, control, and protection for cloud data and applications. A CASB can also help the company handle the extra workload and overcome the limited knowledge of the current infrastructure, as it can automate and simplify the enforcement of security policies and compliance requirements across multiple cloud services. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

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**QUESTION 15**

A cloud engineer recently used a deployment script template to implement changes on a cloud-hosted web application. The web application communicates with a managed database on the back end. The engineer later notices the web application is no longer receiving data from the managed database. Which of the following is the MOST likely cause of the issue?

- A. Misconfiguration in the user permissions
- B. Misconfiguration in the routing traffic
- C. Misconfiguration in the network ACL



D. Misconfiguration in the firewall

Correct Answer: D

Reference: <https://www.sunnyvalley.io/docs/network-security-tutorials/most-common-cause-of-firewall-failure>

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