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CV0-002

CompTIA Cloud+

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Exam A

QUESTION 1

A company purchased a SaaS CRM application. The signed SLA meets year-round performance requirements. Three months after deployment, customers start reporting a slow application response time. System availability, connectivity, and proper functionality still meet the SLA. Which of the following is MOST likely the reason for the poor response time?



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- A. Incorrect business requirements are invalidating the testing results.
- B. Bandwidth restrictions are causing poor performance.
- C. The application version is causing compatibility issues.
- D. Inadequate documentation is affecting the user interface.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

A cloud architect created a new delivery controller for a large VM farm to scale up according to organizational needs. The old and new delivery controllers now form a cluster. However, the new delivery controller returns an error when entering the license code. Which of the following is the MOST likely cause?

- A. A firewall is blocking the port on the license server.
- B. The existing license is for a lower version.
- C. The existing license is not supported for clusters.
- D. The existing license has expired.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A multinational corporation needs to migrate servers, which are supporting a national defense project, to a new datacenter. The data in question is approximately 20GB in size. The engineer on the project is considering datacenters in several countries as possible destinations. All sites in consideration are on a high-speed MPLS network (10Gb+ connections). Which of the following environmental constraints is MOST likely to rule out a possible site as an option?

- A. Downtime impact
- B. Legal restrictions
- C. Peak time frames
- D. Bandwidth

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

Several SaaS providers support identity federation for authentication. Which of the following would BEST assist in enabling federation?

- A. SAML

- B. NTLM
- C. MFA
- D. PKI

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://aws.amazon.com/blogs/apn/identity-federation-and-sso-for-saas-on-aws/>

QUESTION 6

A company is interested in a DRP. The purpose of the plan is to recover business as soon as possible. The MOST effective technique is:

- A. archiving.
- B. network clustering.
- C. site mirroring.
- D. active/active.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A new SaaS timecard application that is being tested will be used by all employees at a large corporation. The following process was used to test the application:

1. Three users from each site used the application for three weeks.
2. The new application was used side by side with the existing application.
3. The outputs of the old and new applications were compared side by side.

Which of the following requirements did the testing plan confirm? (Select two.)

- A. High availability
- B. Performance
- C. Connectivity
- D. Data integrity



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- E. Sizing
- F. Security

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

A cloud engineer is using a hosted service for aggregating the logs for all the servers in a public cloud environment. Each server is configured via syslog to send its logs to a central location. A new version of the application was recently deployed, and the SaaS server now stops processing logs at noon each day. In reviewing the system logs, the engineer notices the size of the logs has increased by 50% each day. Which of the following is the MOST likely reason the logs are not being published after noon?

- A. The logging directory does not have sufficient storage space.
- B. The syslog service is not running on the servers.
- C. The data limit has been exceeded at the SaaS provider.
- D. There is a cloud service provider outage.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

A cloud engineer deployed an email server in a public cloud. Users can access the email server, but the emails they send cannot reach their destinations. Which of the following should the cloud engineer do FIRST?

- A. Confirm the email server configuration and reinstall the email server software.
- B. Validate the security certificate for the email domain.
- C. Confirm email encryption service.
- D. Consult the cloud vendor's anti-spam policy.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A file server is being migrated from physical hardware into a private cloud. Baselineing of the server shows the disks average 90% full at all times. The contents of the file server consist mostly of compressed audio files. Multiple copies of the same files are often saved in different locations on the same disk. Which of the following storage technologies is MOST likely to help minimize storage utilization when moving this server to the private cloud?

- A. Compression
- B. Thin provisioning
- C. Deduplication
- D. Tokenization

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A cloud administrator is looking at business requirements that specify the data available at the disaster recovery site must not be more than 24 hours old. Which of the following metrics correctly relates to these requirements?

- A. RTO
- B. MTBF
- C. MTTR
- D. RPO

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A cloud implementation engineer successfully created a new VM. However, the engineer notices the new VM is not accessible from another network. A ping test works from another VM on the same subnet. Which of the following is the MOST likely problem?

- A. Incorrect subnet
- B. Incorrect host IP address
- C. Incorrect VLAN
- D. Incorrect gateway

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A customer wants a cloud systems administrator to adjust the backup schedule after month-end to ensure the data can be restored as fast as possible while minimizing the time needed to perform the backup. Which of the following backup types should be scheduled?

- A. Synthetic full
- B. Incremental
- C. Differential
- D. Full

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

A cloud administrator uses a script to automatically restart all the servers running in the public cloud provider environment, which hosts e-commerce applications. The administrator decides to implement the same script for a similar environment that hosts the finance applications. After verifying the script is deployed to the public cloud environment for finance, the administrator schedules a job to run at 9:00 a.m. After 9:00 a.m., the administrator receives a report from the e-commerce team that the application is experiencing outages. Which of the following should the administrator do to resolve the issue?

- A. Update the version of the CLI tool for the public cloud provider.
- B. Copy the script up to a bastion host in the environment and run it from there.
- C. Validate the access credentials for the cloud provider are correct.
- D. Debug the script and modify it to remove the flawed logic.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A critical new security update has been released to fix an identified zero-day vulnerability with the SSH server process. Due to its severity, all development and staging servers must have this update applied immediately. Which of the following is the FASTEST way for the administrator to apply the patch and ensure all systems are configured consistently?

- A. Shut down all servers and use the server provisioning tools to deploy new ones that have the latest patch applied.
- B. Create a master inventory list of servers that must be patched. Log in to each server and deploy the patch, making sure to check off each server on the list.
- C. Use the existing tooling to clone the existing servers. Update each clone with the latest patch and shut down the original system.
- D. Update the set of configuration management scripts to include the latest patch. Execute these scripts against a master inventory of servers.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

A company wants to take advantage of cloud benefits while retaining control of and maintaining compliance with all its security policy obligations. Based on the non-functional requirements, which of the following should the company use?

- A. Hybrid cloud, as use is restricted to trusted customers

- B. IaaS, as the cloud provider has a minimal level of security responsibility
- C. PaaS, as the cloud customer has the most security responsibility
- D. SaaS, as the cloud provider has less security responsibility

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

An administrator is deploying a new application platform with the following resource utilization:

Resource	Total Capacity	Current Usage
DISK	1.5TB	1300GB
IOPS	5000	3000
CPU	12GHz	8.5GHz
Network	10Gbps	3Gbps
RAM	256GB	90GB

Company policy requires that no resource utilization surpasses 80%. Which of the following resources will need to be upgraded prior to deployment?



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- A. Disk
- B. IOPS
- C. CPU
- D. Network
- E. RAM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Several suspicious emails are being reported from end users. Organizational email is hosted by a SaaS provider. Upon investigation, the URL in the email links to a phishing site where users are prompted to enter their domain credentials to reset their passwords. Which of the following should the cloud administrator do to protect potential account compromise?

- A. Forward the email to the systems team distribution list and provide the compromised user list.
- B. Click on the URL link to verify the website and enter false domain credentials.
- C. Change the encryption key for the entire organization and lock out all users from using email until the issue is remediated.
- D. Notify users who received the email to reset their passwords regardless of whether they click on the URL.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Which of the following is the BEST way to ensure accounts in a cloud environment are disabled as soon as they no longer need to be active?

- A. Have the user contact the cloud systems administrator to disable the account when it is no longer needed.
- B. When users leave the company, ensure an account disablement request is initiated and will be fulfilled in less than four hours.
- C. Have accounts checked by the cloud systems administrator once per day to ensure active accounts are still valid.
- D. Reboot directory services servers once a day to ensure all account disablement requests are committed.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A cloud administrator has deployed a new all-flash storage array with deduplication and compression enabled, and moved some of the VMs into it. The goal was to achieve 4:1 storage efficiency while maintaining sub-millisecond latency. Which of the following results would BEST suit the requirements?

- A. Compression 1:1
Deduplication 4:1
Overall savings 4:1
Average latency 1.0ms
- B. Compression 1.5:1
Deduplication 1.8:1
Overall savings 2.2:1
Average latency 600us
- C. Compression 1.3:1
Deduplication 3.1:1
Overall savings 4.3:1
Average latency 900us
- D. Compression 1.8:1
Deduplication 2.7:1
Overall savings 4.2:1
Average latency 1.2ms

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A newly established CSP allows for drive shipping to upload new data into the environment. Sensitive data on 40TB of storage needs to be transferred within one week. Which of the following is the MOST efficient and secure method for shipment of the data to the CSP with minimal downtime?

- A. Create a VPN between the sites and schedule data transfer during non-business hours.
- B. Copy the data to encrypted drives and use the CSP-certified shipping provider.
- C. Compress and SFTP the data to the CSP.
- D. Move the data to encrypted drives and use the CSP-certified shipping provider.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A manufacturing company's current security policy mandates PII is not stored in the SaaS solution. Which of the following configuration controls should be used to block sensitive information from being stored in the SaaS solution?

- A. Implement file-level encryption.
- B. Implement a network ACL.
- C. Implement an IPS.
- D. Implement content filtering.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A new application with availability SLA requirements of 99.99% has been deployed in a cloud. For a test spanning a month, which of the following unavailability times would mean the test was successful? (Select TWO).

- A. 1 minute
- B. 4 minutes
- C. 10 minutes
- D. 30 minutes
- E. 60 minutes

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

The CSA needs to install a patch on 58 virtual server instances during the Friday evening maintenance window. Which of the following is the MOST efficient way to get the patches installed?

- A. Use the patch management tool to automate and orchestrate the patch installation.
- B. Use a security vulnerability scanning tool to apply the patch automatically.

- C. Schedule the patch to install from a remote file server upon server reboot.
- D. Connect the server instances to the Internet to download the patch automatically.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

A recent advertisement campaign has increased traffic to an e-commerce application that is hosted within a public cloud environment. Customers are reporting that it takes too long to load their pages and submit orders. A cloud administrator looks at the metrics from the environment and sees high utilization of the CPU and memory resources. The cloud provider offers several preconfigured sizes for server template: x-small, small, medium, large, x-large, and 2x-large.

Server Name	Role	Server Template Size	Peak CPU Usage	Peak Memory Usage
Inxw001	web	medium	40%	45%
Inxpc002	application	2x-large	85%	90%
Inxpc003	application	x-large	95%	95%
Inxpc004	application	2x-large	85%	85%

Given an expected increase in workload, which of the following is the BEST solution to improve application performance?

- A. Change the server template size for Inxpc003 to 2x-large.
- B. Provision additional Inxpc servers using the 2x-large template.
- C. Add memory to Inxpc002, Inxpc003, and Inxpc003.
- D. Change the role of Inxw001 from web to application.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

A company wants to leverage a SaaS provider for its back-office services, and security is paramount. Which of the following solutions should a cloud engineer deploy to BEST meet the security requirements?

- A. Firewall
- B. IPS/IDS
- C. Proxy gateway
- D. CASB

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

A company upgraded a hosted vulnerability scanner to the latest version, and now tickets are not being created to assign critical vulnerabilities. After confirming the ticketing issue, all the scanning services are confirmed to be running on the VM. Which of the following is the MOST likely cause and best method to fix the issue?



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- A. There was an IP change to the VM. Make changes to the server properties.
- B. The upgrade has a bug Reboot the server and attempt the upgrade again.
- C. The vulnerability scanner is on a different subnet. Open the ports, and it will reconnect.
- D. There is an application compatibility issue. Roll back to the previous working backup.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A system's application servers need to be patched. The requirements for maintenance work are as follows:

- System downtime is not allowed.

- The application server in use must be in the sane patch status.
- System performance must be maintained during patching work.
- Testing after patching must be done before the application server is in use.
- If any trouble occurs, recover the previous version in ten minutes.

Which of the following methodologies should be selected?

- A. Rolling update
- B. Patching directly
- C. Blue-green deployment
- D. Three staging environments

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

A software development company is building cloud-ready applications and needs to determine the best approach for releasing software. Which of the following approaches should be used?

- A. Perform QA, develop, test, and release to production
- B. Test, perform QA, develop, and release to production
- C. Develop, perform QA, test, and release to production
- D. Develop, test, perform QA, and release to production

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

A customer recently provisioned a new server on the IaaS. The IP address assigned from the pool resolves to another hostname. Some user traffic is being dumped or is causing slowness because of this issue. Which of the following maintenance activities does the provider need to perform to prevent this issue?

- A. Use cloud provider tools to remove orphaned resources.
- B. Initiate resource reclamation.
- C. Run a script to remove stale DNS entries.
- D. Update outdated security firewall configurations.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

A development team released a new version of an application and wants to deploy it to the cloud environment with a faster rollback and minimal downtime. Which of the following should the cloud administrator do to achieve this goal?

- A. Use a rolling deployment to update all the servers in the PROD cloud environment with the new application. To switch to the previous version, repeat the process.
- B. Deploy the application to the PROD cloud environment and the previous version to QA. To switch to the previous version, promote the QA environment to PROD.
- C. Deploy the application to a subset of servers in the environment and route traffic to these servers. To switch to the previous version, change the route to the non-updated servers.
- D. Deploy the application to a staging environment and force a failover to this environment. To restore the previous version, create a backup and restore from the previous night's backup.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

A university is running a DNA decoding project that will take seven years if it runs on its current internal mainframe. The university negotiated a deal with a large cloud provider, which will donate its cloud resource to process the DNA decoding during the low peak time throughout the world. Which of the following is the MOST important resource the university should ask the cloud provider to donate?

- A. A large storage for the DNA decoding results
- B. A larger pipe to transfer the results

- C. A closer datacenter to the university
- D. Any available compute resource

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

A business is demanding faster IT services turnaround from its IT groups. The current lead time between request and delivery is three weeks for a task that would take a competitor two days. An architect is asked to develop a solution to reduce the lead time of the request while ensuring adherence to the company policies. Which of the following is the BEST approach to achieve the stated objective?

- A. Document the desired state, complete a root cause analysis, and execute the flow.
- B. Revise the schedule, implement a waterfall methodology, and flatten the network.
- C. Identify deficiencies, optimize change management, and automate the workflow.
- D. Follow the company policies, execute the flow, and document results.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

A storage administrator must choose the best replication methodology for storage.

- The datacenters are on opposite sides of the country.
- The RPO is 24 hours.
- Replication and customer access use the same connections.
- Replication should not impact customer access during the day.

Which of the following solutions would BEST meet these requirements?

- A. Asynchronous
- B. Regional

- C. Multiregional
- D. Synchronous

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

The InfoSec team has directed compliance database activity monitoring without agents on a hosted database server in the public IaaS. Which of the following configurations is needed to ensure this requirement is achieved?

- A. Configure the agent configuration file to log to the syslog server.
- B. Configure sniffing mode on database traffic.
- C. Implement built-in database tracking functionality.
- D. Implement database encryption and secure copy to the NAS.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Ann, a user, has tried to connect to a VM hosted in a private cloud using her directory services credentials. After three attempts, she realizes the keyboard was set to German instead of English, and she was typing "z" instead of "y". After fixing this issue, Ann is still unable to log in; however, other users can access the VM. Which of the following is the MOST likely cause?

- A. The default language on Ann's computer is German.
- B. The account was locked.
- C. Directory services are offline.
- D. There is an account mismatch.
- E. The account localization settings are incorrect.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A cloud administrator is integrating account logins with Facebook, LinkedIn, and Twitter for marketing and to increase market presence using social media platforms. Given this scenario, which of the following components are needed to match these requirements? (Select TWO).

A. SOAP



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B. SAML assertion

C. Security token

D. Identity provider

E. Session state

Correct Answer: ABE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A company uses its own private cloud, which has few available resources. Mission-critical systems and other information systems are running on it. A new system will be deployed on the private cloud. The following tests are included in the test plan:

- Load test (2h)
- Backup/restore test (6h)
- Functional test (8h)
- Failover test (1h)

The work schedule of the existing system is shown below.

	System open	System close	Batch job
ERP (mission critical)	9:00	22:00	22:00-00:00
Groupware	24h active		no batch
Internal web	24h active		06:00-08:00
Official website	24h active		00:00-00:30

To minimize the effect to the existing system, which of the following schedules is MOST suitable for the load test?

- A. 02:00-04:00
- B. 09:00-12:00
- C. 18:00-20:00
- D. 22:00-00:00

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

A public cloud provider recently updated one of its services to provide a new type of application load balancer. The cloud administrator is tasked with building out a proof-of-concept using this new service type. The administrator sets out to update the scripts and notices the cloud provider does not list the load balancer as an available option type for deploying this service. Which of the following is the MOST likely reason?

- A. The administrator can deploy the new load balancer via the cloud provider's web console.
- B. The administrator needs to update the version of the CLI tool.
- C. The administrator needs to write a new script function to call this service.
- D. The administrator is not using the correct cloud provider account.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

A cloud service provider wants to offer hardened virtual server images for provisioning purposes. This will enable users to use only the operating system services that are allowed by the provider. Which of the following tasks are MOST appropriate for the hardening process? (Select TWO).

- A. Disable automatic updates.
- B. Disable the command prompt.
- C. Disable unneeded ports and services.
- D. Disable the local administrator account.
- E. Disable the remote desktop connection.
- F. Disable complex passwords.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

A customer wants to schedule a backup job that compares and saves changes from the last full backup. Which of the following backup types should be used?

- A. Differential
- B. Full
- C. Clone
- D. Incremental

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference <http://www.backup4all.com/kb/backup-types-115.html>

QUESTION 42

A company security policy mandates education and training for new employees. The policy must outline acceptable use policies for SaaS applications. Given these requirements, which of the following security controls is BEST suited?

- A. Preventive
- B. Detective

- C. Corrective
- D. Physical

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

A private cloud customer is considering using the public cloud to accommodate the peak utilization workload. Which of the following would be considered the ideal scaling solution?

- A. Cloud bursting
- B. Load balancing
- C. Horizontal scaling
- D. Vertical scaling

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://searchcloudcomputing.techtarget.com/definition/cloud-bursting>

QUESTION 44

A small clinic is moving its health and accounting systems to a SaaS solution. The clinic holds patient- and business-sensitive information. Which of the following is the company expected to do to protect its data?

- A. Document, configure, and enforce strong account management policies.
- B. Disable and document unneeded ports and protocols on the SaaS servers.
- C. Install antivirus and disable unneeded services on all SaaS servers.
- D. Harden the underlying infrastructure: servers, firewalls, and load balancers.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A consultant is helping a large company migrate its development environment to a public cloud provider. The developers are working on a VDI solution. The development tools that employees utilize require greater control of the OS environment. Which of the following cloud types should the consultant implement?

- A. SaaS
- B. PaaS
- C. Bare metal service
- D. IaaS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

A company changed its policy to have seven-year data retention in the public cloud. Which of the following would be the MOST cost-effective way to meet retention requirements?

- A. Site mirroring
- B. Automated archiving
- C. Replication
- D. Third-party sites

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

During peak times, users are unable to access their online wealth management applications in a timely fashion. The online banking application resides in a community cloud environment. Which of the following explains how the cloud systems administrator should start to resolve this issue?

- A. Access the cloud services portal and ensure memory ballooning is enabled.
- B. Access the cloud services portal and ensure there is adequate disk space available.
- C. Access the cloud services portal and ensure all users are accessing it through the same web service.
- D. Access the cloud services portal and ensure the ACLs are set correctly for the user community.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

