

## CV0-002

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CV0-002



## Exam A

### QUESTION 1

A new browser version has been deployed to all users at a company. After the deployment, users report that they can no longer access the company's secure time-card system, which is hosted by a SaaS provider. A technician investigates and discovers a security error is received upon opening the site. If the browser is rolled back to the older version, the site is accessible again. Which of the following is the MOST likely cause of the security error users are seeing?



- A. SSL certificate expiration on the SaaS load balancers
- B. Federation issues between the SaaS provider and the company
- C. Obsolete security technologies implemented on the SaaS servers
- D. Unencrypted communications between the users and the application

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Due to a competitor's unlimited data plan, a service provider is struggling and wants to transform its business services to be more hosting oriented. A cloud architect is tasked to review current cloud resource capacity and provide recommendations and a plan for better resource utilization. Given the following report:

Name	Type	Utilization
Server1	Media	25%
Server2	Media	15%
Server3	Media	12%
Server4	Host	72%

Which of the following is the BEST option for the architect to suggest?

- A. Downsize by migrating all media services to one server and decommission two servers.

- B. Downsize by decommissioning servers 2 and 3 and reallocate media servers to hosts.
- C. Downsize by migrating all media services to one server, add one host server, and decommission one server.
- D. Upsize the hosting services by turning server 1 into a host server.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

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?

- 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 4**

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 5**

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 6**

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 7**

When designing a new private cloud platform, a cloud engineer wants to make sure the new hypervisor can be configured as fast as possible by cloning the OS from the other hypervisor. The engineer does not want to use local drives for the hypervisors. Which of the following storage types would BEST suit the engineer's

needs?

- A. CAS
- B. NAS
- C. DAS
- D. SAN

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

A file server is being migrated from physical hardware into a private cloud. Baselining 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 9**

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:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

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 11**

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 12**

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 13**

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:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 14**

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 15**

A cloud architect is tasked with isolating traffic between subnets in an IaaS platform. The networks should be able to statefully communicate with each other. Given this scenario, which of the following should the architect implement?

- A. Configure security groups.
- B. Configure HIPS policies.
- C. Configure IDS policies.
- D. Configure a network ACL.

**Correct Answer: A**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 16**

A cloud administrator is provisioning several user accounts that have administrator rights to assets using JSON within an IaaS cloud platform. The administrator is required to configure "alternate" settings using the API. Given this scenario, which of the following elements would allow the administrator to meet these



requirements in the JSON file?

- A. Statement
- B. Effect
- C. Resource
- D. Condition

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

Before doing a change on a VM, a systems administrator wants to ensure there is an easy and fast way to rollback if needed. The change and testing should take approximately two hours. Which of the following is the EASIEST way to meet this requirement?

- A. Create a snapshot on the hypervisor.
- B. Make an on-demand, incremental backup to a VTL.
- C. Make an on-demand, full backup to a secondary location.
- D. Create a snapshot on a remote storage array.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 18**

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 19**

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?

- 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 20**

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 same 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 21**

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 22**

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 23**

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: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

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 25

A cloud administrator is required to implement a solution to handle data-at-rest encryption requirements for a database. Which of the following would BEST satisfy the requirements?

- A. Install an SSL certificate and only allow secure connections to the server.
- B. Enable two-factor authentication on connections to the database server and log activities.
- C. Activate memory encryption on the virtual server and store the certificates remotely.
- D. Create a virtual encrypted disk, add it to the virtual server, and have the database write to it.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

The question talks about data at rest. The only option given that offers a solution for data at rest is to encrypt the disk that the database writes to.

#### QUESTION 26

A cloud administrator has finished building a virtual server template in a public cloud environment. The administrator is now cloning six servers from that template.

Each server is configured with one private IP address and one public IP address. After starting the server instances, the cloud administrator notices that two of the servers do not have a public IP address. Which of the following is the MOST likely cause?

- A. The maximum number of public IP addresses has already been reached.
- B. The two servers are not attached to the correct public subnet.
- C. There is no Internet gateway configured in the cloud environment.
- D. The two servers do not have enough virtual network adapters attached.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

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 28**

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 29**

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 30**

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 31**

A cloud administrator reports a problem with the maximum number of users reached in one of the pools. There are ten VMs in the pool, each with a software capacity to handle ten users. Based on the dashboard metrics, 15% of the incoming new service requests are failing. Which of the following is the BEST approach to resolve the issue?

- A. Check compute, storage, and networking utilization in the dashboard and increase capacity by adding more resources.
- B. Check current licensed capacity and purchase additional licenses to add more users.
- C. Check the DHCP scope and increase the number of available IP addresses by extending the pool.
- D. Check the rate-of-load increase to determine if the cloud capacity boundary has been exceeded and enable bursting to the public cloud.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

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 33**

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 34**

A business is planning to migrate from a private cloud to a public cloud. To document business continuity, which of the following should be done FIRST?

- A. Develop a disaster recovery plan with partners/third parties.
- B. Define the set of application-based SLAs.
- C. Identify HA technology to provide failover.
- D. Define the scope of requirements.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 35**

A large finance firm processes three times as many transactions in December of each year. The transactions are processed in a private cloud. Management wants to avoid adding permanent resources to accommodate the single month increase. Which of the following is the BEST way to meet the need?

- A. Migrate all transaction processing to a public cloud and size capacity for the largest seasonal needs.
- B. Keep current capacity for processing, but implement cloud bursting to auto scale the resources without having to invest in infrastructure.
- C. Determine usage patterns over time and virtualize the processing traffic to give room for seasonal changes in resource demand.
- D. Determine usage patterns for the seasonal capacity needs and add physical resources to allow additional processing.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

A cloud administrator is adding several accounts for new development team interns. These interns will need access to some, but not all, of the resources and will only be working over the summer. Which of the following user provisioning techniques should be used?

- A. Create a single account for the interns to share. Set the expiration date for the account to six months.
- B. Create a role labeled "interns" with the appropriate permissions. Create a separate account with an expiration date for each intern and add each intern to that role.
- C. Create one template user account with the appropriate permissions and use it to clone the other accounts. Set an expiration date for each account individually.
- D. Create individual accounts for each intern, set the permissions and expiration date for each account, and link them to a temporary guests user group.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

After deploying new VMs, the systems administrator notices it is not possible to connect to them using network credentials; however, local accounts work. After logging in, the administrator notices the NTP servers are not set. Which of the following is MOST likely causing this issue?

- A. Directory services requires the use of NTP servers.
- B. The VMs are insufficiently licensed.
- C. There is a directory services outage.
- D. There is a time synchronization issue.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

A cloud engineer notices on a dashboard that the host is close to reaching maximum capacity for the CPU and memory in the cloud environment, which could cause performance issues. The cloud environment has 100 servers, with 25% of the servers consuming their compute only during peak business hours, 25% consuming

half of the allocated resources, and the remaining 50% using the compute during off hours. Which of the following should the engineer perform to optimize the efficiency of the compute usage in the cloud?

- A. Add additional CPUs and RAM to the host that is serving the cloud.
- B. Adjust the cloud workload by migrating resource-intensive applications to different hosts.
- C. Add additional hosts to the environment using the cloud management tool.
- D. Enable automatic scaling in the cloud management tool.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

A cloud administrator is managing two private cloud environments. In cloud A, the disaster recovery solution has an SLA for RPO of five minutes and RTO of one hour. In cloud B, the disaster recovery solution has an SLA for RPO of one hour and RTO of 24 hours. A new customer's application requires that, in case of a disaster, no more than 15 minutes of data can be lost, and it should be fully recovered within one day. Which of the following would be the BEST approach to this application?

- A. Tell the customer cloud A is the best solution
- B. Put it in cloud B and ask the customer to create snapshots every 15 minutes
- C. Both cloud A and cloud B would suit the customer's needs
- D. Change the cloud B disaster recovery solution so RPO will be 15 minutes

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

Email users report that it takes more than one minute to open emails, including those without attachments. There are three email instances in three different regions hosted by the same CSP. Other applications hosted by the same CSP have no reported issues. Which of the following solutions BEST resolves the issue?

- A. Confirm that the email instances have sufficient bandwidth.
- B. Install monitoring software on the email instances.

- C. Check the antivirus software settings and disable real-time message scanning.
- D. Ensure the requested IOPS are being provided to the email instances.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 41**

A technician is configuring a new web application to be highly available. The technician has configured multiple web servers in different availability zones at a public cloud provider. The application requires users to be directed to the same server each time they visit. Which of the following network components is MOST likely to accomplish this?

- A. Network firewall
- B. Intrusion prevention system
- C. Global load balancer
- D. Virtual private network

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

Which of the following would be appropriate when considering inbound access security for a web-based SaaS solution?

- A. Antivirus/anti-malware
- B. IPSec
- C. Firewall
- D. Obfuscation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

A VM was deleted by mistake today at 11:05 a.m. Below are the backups currently available for the VM:

Backup Type	Date Time
Incremental	Today 00:00
Incremental	Yesterday 00:00
Synthetic-full	Yesterday 12:00
Full	Three days ago 00:00
Snapshot	Today 11:00
Snapshot	Today 07:00
Snapshot	Today 03:00

Crash-consistent restore is acceptable. Which of the following backups should be chosen?

- A. Snapshot from today at 11:00
- B. Full from three days ago at 00:00
- C. Incremental from today at 00:00
- D. Synthetic-full from yesterday at 12:00

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

A cloud administrator is configuring a bastion host. The bastion host will be used to administer systems in the cloud remotely from the administrator's on-premises desktop. The administrator is given the following requirements:

- Ensure port 22 is open on the host and only allow the public IP of the on-premises router/firewall.
- Ensure port 3389 is open on the host and only allow the public IP of the on-premises router/firewall.
- Harden these services with PKI (where applicable).

Given this scenario, which of the following should the administrator utilize to BEST address these requirements? (Select THREE).

- A. RDP protocol from the desktop to the bastion host

- B. Telnet protocol from the desktop to the bastion host
- C. SSH protocol from the desktop to the bastion host
- D. MD5 and RC4 with a signed certificate
- E. RSA and AES with a signed certificate
- F. Blowfish and SHA-1 with a signed certificate
- G. VNC protocol from the desktop to the bastion host

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

After scheduled network maintenance, users report that an externally hosted web application is particularly slow to load. Small items on the page load such as text documents and markup, but larger multimedia files do not load. Which of the following is the MOST likely cause of the reported issues?

- A. Incorrect MTU in the network segment
- B. Misconfiguration of QoS settings
- C. Incorrect VLAN for the affected PCs
- D. Excessive latency on the local LAN segment

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

A cloud administrator for a state government agency is tasked with giving access to the voter registration application to a government agency in another state. Only authorized officials from each state should access the application. These agencies have a common environment where applications have been deployed in the past. Which of the following should the cloud administrator do to give access to the application?

- A. Deploy part of the application into a public cloud and establish secure connections to a private cloud environment.
- B. Deploy the application to a community cloud that is shared with multiple state government agencies only.
- C. Deploy the application to a public cloud and implement ACLs and security access policies to limit access.
- D. Deploy the application to the state's private cloud and give authentication credentials to the other state's authorized officials.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

Worldwide users from an organization are experiencing intermittent access to a global cloud application. The cloud provider availability dashboard shows all resource availability has been 100% in the last two weeks. No network outages have been reported. Which of the following should the organization's administrator do BEFORE calling the cloud provider?

- A. Check the firewall rules on the headquarters site.
- B. Restart the application and applicable services.
- C. Allow all traffic at the cloud provider side from any private IP address.
- D. Evaluate the DNS to ensure all configurations are correct.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 48**

A cloud deployment engineer is modifying versions of the existing template image to instantiate new VMs. The engineer accomplishes this through the cloud self-service portal. After the version is changed and a new VM is successfully started, it does not have any connectivity, and all ping tests to other VMs fail. Which of the following would be the BEST approach to solve the problem?

- A. Start the console session to the VM; check network static routes; test the ping to default gateway and next hop; and reconfigure the gateway IP.
- B. Delete the VM; create a new flavor; turn on network service; add the new image to the template manager; and reinstantiate the VM using this new image.
- C. Delete the VM; check the IP assignment and planning; modify configuration in the deployment template; and instantiate the VM again using the new template.
- D. Assign new IPs to the newly created VMs by changing and running the deployment template; and check the connectivity on the cloud self-service portal afterward.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

A company is implementing a launchpad within an existing application that will point to an existing SaaS provider. One of the requirements is the user should not have to log on multiple times. SSO is in place. When the launchpad is used, the user is redirected to SaaS providers as designed, but is asked for login credentials. Which of the following is the MOST likely cause of this issue?

- A. Users do not exist within the SaaS provider.
- B. Group permissions are incorrect.
- C. Users do not exist in directory services.
- D. The federation is failing.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

A cloud service administrator is consuming PaaS services and is performing baseline configuration tests. Which of the following is part of the PaaS consumer's responsibility with respect to the baseline confirmation tests?

- A. Application versions
- B. CPU utilization
- C. RAM utilization
- D. Operating system versions

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

A user has submitted a ticket to request additional VMs due to long wait times for online ordering. Given the snapshot of the resources in the table below:



Component	Resource	Utilization
Web Server	vCPU	35%
	Memory	85%
	Disk	30%
	Network	75%
Database Server	vCPU	40%
	Memory	60%
	Disk	65%
	Network	14%

Which of the following is the BEST option for the administrator to resolve the ticket?

- A. Add vCPU to the database server to increase capacity.
- B. Add disks to the database server to increase capacity.
- C. Add virtual network ports to the web server to increase capacity.
- D. Add memory to the web server to increase capacity.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 52

A company is implementing a SaaS solution with a large user base. SaaS solution licensing is user based, and user management is critical to keep the cost in check. Which of the following is the MOST efficient way to meet this requirement?

- A. Have the administrator of the SaaS solution keep track of user activities.
- B. Have a nightly upload to the SaaS provider of the current user base based on API call.
- C. Have users remove their SaaS accounts when they no longer need the service.
- D. Have a weekly user management script maintain the SaaS user base.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

A cloud administrator updates the syslog forwarder configuration on a local server in production to use a different port. The development team is no longer receiving the audit logs from that server. However, the security team can retrieve and search the logs for the same server. Which of the following is MOST likely the issue?

- A. The development team is not looking at the correct server when querying for the logs.
- B. The security team has greater permissions than the development team.
- C. The audit logging service has been disabled on the server.
- D. The development team's syslog server is configured to listen on the wrong port.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

A company has been migrating a significant number of its on-premises applications to various SaaS providers. The IT department has noticed the following:

1. User account management has become challenging.
2. User account compromises have increased.
3. Accessing various SaaS applications is challenging.

Which of the following should the IT security department implement to BEST resolve the issue? (Select THREE).

- A. Single sign-on
- B. Multifactor authentication
- C. Network intrusion prevention system
- D. Password synchronization
- E. Federation
- F. IPSec tunnel to the SaaS providers
- G. VPN to SaaS providers

**Correct Answer:** BDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

A security and risk team requires a weekly report to detect VM file system changes and validate the integrity of the OS. Which of the following is the BEST solution for this requirement?

- A. Configure a FIM agent on the VM and forward syslogs to a central location.
- B. Configure debugging on the VM and forward syslogs to a central location.
- C. Configure an antivirus agent on the VM and create the report through the web GUI.
- D. Configure a FIM agent on the VM and create the report through the web GUI.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

IaaS users are reporting longer than expected wait times when accessing the virtual file repository. There are more than 2TB of free disk space, and vCPU and vRAM do not reach more than 75% utilization. In which of the following ways should the cloud systems administrator analyze this issue?

- A. Access the cloud services portal and increase the amount of available disk space by 25%.
- B. Access the cloud services portal and check the amount of CPU and RAM on the host machine.
- C. Access the cloud services portal and look at the historical performance numbers.
- D. Access the cloud services portal and check the security log for access denied requests.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

A cloud administrator works for an online gaming company that is hosting its multiplayer servers in a public IaaS cloud. The following metrics are reported during a controlled beta test:

RAM usage	80%
Bandwidth usage	50%
Average ping	800ms

The beta test shows poor performance for gamers. Which of the following should the cloud administrator implement FIRST to improve the gamers' experience?

- A. Scale the deployment of multiplayer servers by doubling the number of VMs.
- B. Increase network bandwidth on the multiplayer servers.
- C. Increase the RAM on the multiplayer servers.
- D. Deploy multiplayer servers in public cloud locations closer to the user base.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 58**

An administrator defines a backup as follows:

- One weekly full backup
- Daily incremental backup

Which of the following BEST describes where the administrator would define this?

- A. Backup SLA document
- B. Backup orchestration workflow
- C. Backup schedule
- D. Provisioning schedule

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

In a private cloud environment, which of the following is the BEST way to update 20 VMs with the same patch that has been regression tested and approved for rollout?

- A. Automate the distribution of the patch and use an orchestration tool to roll it out.

- B. Roll out the patch manually to the 20 VMs and reboot the system.
- C. Deploy the patch to ten VMs for testing and then install it on the remaining VMs.
- D. Install the patch on as many VMs as possible during the next maintenance window.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 60

A cloud administrator has configured a connection between two virtual private cloud environments at a public cloud provider that are each in different accounts. The administrator has configured the accounts correctly so they can connect to each other's resources. Both cloud environments have policies that allow anyone from 0.0.0.0/0 on TCP port 22. The following table shows the network configuration information:

Virtual Private Cloud	IP Range	Server IP Address
Finance	10.250.40.0/24	10.250.40.100
Sales	10.250.48.0/24	10.250.48.214

However, the administrator is unable to establish an SSH connection from a server in 10.250.40.100 to 10.250.48.214. Which of the following is the MOST likely issue?

- A. The network ACL is not configured to allow SSH access.
- B. The IP configuration on one of the servers is incorrect.
- C. The administrator does not have sufficient credentials.
- D. The routing tables have not been updated correctly.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 61

A company is looking for a hardware feature with the least amount of downtime in terms of firmware upgrades. Which of the following features BEST meet this requirement?

- A. In-service upgrades

- B. Rolling upgrades
- C. Failover upgrades
- D. User-mode upgrades

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

A company uses SaaS and IaaS solutions from multiple cloud providers. Users report that this requires them to manage and remember multiple user accounts and passwords. Which of the following solutions should be implemented to fix this issue?

- A. SSO
- B. Federation
- C. Password synchronization
- D. Lowered password complexity
- E. Multifactor authentication

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

Company A just acquired Company B and needs to migrate critical applications to Company A's private cloud infrastructure. Company B's applications are running on legacy servers and cannot be removed from the current datacenter where they reside. Which of the following migration strategies should the cloud administrator use?

- A. V2V
- B. P2V
- C. V2P
- D. P2P

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

An e-commerce business recently experienced a two-hour outage from its hosted web service provider. According to the SLA, the business needs to determine how much data can be restored. On which of the following service-level components should the business focus?

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

Ann, the lead product developer for a company, just hired three new developers. Ann asked the cloud administrator to give these developers access to the fileshares in the public cloud environment. Which of the following is the BEST approach for the cloud administrator to take?

- A. Clone Ann's account to create three new developer accounts.
- B. Distribute the credentials of Ann's shared account to the three new developers.
- C. Copy the fileshares to each new developer's laptop.
- D. Create a new role to access the fileshares and assign the three new developers.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

A hospital is leveraging a third-party-hosted, SaaS-based EMRS for all its regional locations. The EMRS will consolidate all existent stand-alone regional systems.

All regional systems managers are concerned about the new system availability. Which of the following should the new EMRS architect do to address the manager's concerns?

- A. Analyze business requirements and design the new EMRS to run the most popular IaaS provider that meets the health industry's needs.
- B. Analyze and communicate to regional managers that dual service providers will be used at all regional locations.
- C. Analyze business requirements, and design and deploy client-to-site VPN for all regional hospital staff with two-factor authentication or a client certificate.
- D. Analyze business requirements and deploy the SaaS EMRS within the hospital's headquarters and create a client-to-site VPN from each region.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 67

A physical server with SSD drives that hosts an IO-intensive database has been migrated into a private cloud to ensure further growth possibilities and accommodate quarterly load spikes (up to 10,000 IOPs). The requirement is to have log partition latency below 5ms and data partition latency below 10ms, irrespective of the load spikes. A cloud administrator has conducted extensive tests after the migration. Which of the following test results would ensure the migration is successful?

- A.
- |                              | 5000 IOPs | 10,000 IOPs |
|------------------------------|-----------|-------------|
| Log partition read latency   | 4ms       | 5ms         |
| Log partition write latency  | 1ms       | 1ms         |
| Data partition read latency  | 6ms       | 8ms         |
| Data partition write latency | 1ms       | 1ms         |
- B.
- |                              | 5000 IOPs | 10,000 IOPs |
|------------------------------|-----------|-------------|
| Log partition read latency   | 4ms       | 5ms         |
| Log partition write latency  | 1ms       | 1ms         |
| Data partition read latency  | 6ms       | 11ms        |
| Data partition write latency | 800us     | 900us       |
- C.
- |                              | 5000 IOPs | 10,000 IOPs |
|------------------------------|-----------|-------------|
| Log partition read latency   | 4ms       | 5ms         |
| Log partition write latency  | 800us     | 900us       |
| Data partition read latency  | 10ms      | 12ms        |
| Data partition write latency | 800us     | 900us       |



D.

	5000 IOPs	10,000 IOPs
Log partition read latency	4ms	5ms
Log partition write latency	10ms	10ms
Data partition read latency	10ms	10ms
Data partition write latency	10ms	10ms

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 68

A new startup company is growing and wants to deploy a human resources management system on a private cloud that is only accessible to the human resources department. Which of the following is the BEST method of access control?

- A. Discretionary access control
- B. Mandatory access control
- C. Non-discretionary access control
- D. Comprehensive access control

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 69

A Type 1 hypervisor has the following specifications:

RAM 128GB  
 CPU 4 socket quad-core  
 Storage 16TB

Each VM must have 8GB RAM, 1 vCPU, and 512GB storage. Which of the following is the MAXIMUM number of VMs that can be hosted on this hypervisor?

- A. 14
- B. 15

- C. 31
- D. 32

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 70**

Company A has just implemented a SaaS-based cloud storage solution. The SaaS solution provides services for both commercial and personal use. The IT department has been tasked to migrate all the on-premises file shares to the SaaS solution with the username being the corporate email address. The IT department is currently using an IAM solution to provision the accounts in the SaaS solution. Upon execution of the account creation process, the IT department is receiving multiple “unable to create account” alerts. Which of the following is the MOST likely cause?

- A. The automation task is misconfigured
- B. There is a false positive due to lack of testing
- C. There are compatibility issues between SaaS and IAM
- D. The user accounts already exist

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

A company has moved all on-premises workloads into a public cloud. After some time, the cloud engineer starts noticing time drifts on the VMs and suspects an NTP issue. Time drifts were not an issue when all the workloads were on-premises. Which of the following describes how the cloud engineer should resolve the issue?

- A. Implement Coordinated Universal Time on all workloads
- B. Point all workloads back to an on-premises NTP server
- C. Point all workloads to a stratum 2 within the public cloud provider
- D. Configure all of the VMs as NTP servers within the public cloud provider

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 72**

A consultant is helping a gaming-as-a-service company set up a new cloud. The company recently bought several graphic card that need to be added to the servers. Which of the following should the consultant suggest as the MOST cost effective?

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

**Correct Answer: A**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 73**

A company wants to implement a public IaaS solution but also wants to address site resiliency challenges. When selecting an IaaS provider, which of the following should a cloud technician look for within the provider's capabilities to meet the requirements?

- A. Bare metal service
- B. Failure zones
- C. Backup services
- D. Dedicated connectivity

**Correct Answer: D**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 74**

A security administrator wants to automate the implementation of network-based ACLs for services deployed within the company VPC. The security administrator is mostly concerned with intra-VPN separation to prevent unauthorized communication between cloud deployed services within the VPC.

Which of the following should the security administrator implement?

- A. Include a list of the firewall rules in the orchestration script
- B. Use the cloud API to deploy and configure anti-malware services
- C. Configure the appropriate IDS rules using the cloud portal
- D. Write custom scripts to deploy a network ACL between the VPC and the company's network

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 75**

A CASB provides the application proxy and web application firewall to a large retailer. All access to the retailer cloud application must originate from the CASB-designated IP addresses. The CASB has known geolocations with known IP addresses. Suddenly, all customers are not able to access the retailer cloud applications. Which of the following is MOST likely the reason for the issue?

- A. Additional CASB IP addresses were added to the authorized pool
- B. All of the CASB's European datacenters are down
- C. There was federation and SSO misconfiguration
- D. The CASB's SSL/TLS certificate expired

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 76**

An upgrade to a web application, which supports 400 users at four sites, is being tested. The application runs on four servers behind a load balancer. The following test plan is proposed:

- Have 50 users from site A connect to server 1
- Have 50 users from site B connect to server 2
- Have 50 users from site C connect to server 3
- Have 50 users from site D connect to server 4

Which of the following parameters is being properly tested by this plan?

- A. Sizing
- B. Connectivity
- C. High availability
- D. Performance

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

A cloud provider wants to automate the installation of standard applications and services as part of the PaaS environment. The provider generates scripts for installation and configuration, taking into account the values provided by the users as input. The scripts need to be run automatically as part of the provisioning process and reused later for other purposes.

Which of the following would help the provider do this?

- A. Provisioning
- B. Orchestration
- C. Self-service portal
- D. Baselines

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure/automation/automation-intro>

#### **QUESTION 78**

A company recently decided to move some of its servers to a public cloud. The engineer has been invited to attend requirement sessions for moving servers to the cloud. The engineer is tasked with ensuring the servers that are being moved to the cloud are still in compliance, as they were on-premises.

Which of the following should the engineer request during the requirement sessions?

- A. Syslog server
- B. Administrator access to the cloud service

- C. Configuration management tool
- D. Orchestration tool

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 79

Following is a sample result from a recently completed load test.

Type	Capacity	Utilization
CPU	2	25%
Memory	4GB	20%
Storage	2TB	65%

Based on the information provided, which of the following would be the BEST recommendation?

- A. Use the test result as a benchmark and document it.
- B. Downsize the CPU and memory assignment.
- C. Decrease assigned storage capacity.
- D. Implement storage compression.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 80

As part of a nightly testing process, new version of an application is deployed to the set of web servers in the development environment.

Which of the following is the BEST way to ensure the test environment is consistent with the previous night's test?

- A. Clone the development web servers to the test environment.
- B. Reprovision the web servers using predefined templates.
- C. Undeploy the previous application and deploy the new version.
- D. Revert to a previous state using configuration management tools.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 81**

Joe, a customer, wants to implement backup of his replicated VMs so production performance is not affected at the primary site.

Which of the following backup methods would be the MOST appropriate?

- A. Snapshot-based backup at the secondary site
- B. Mirroring to a third site from the primary site
- C. Agent-based backup at the primary site
- D. Agent-based backup at the secondary site

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference <https://docs.microsoft.com/en-us/azure/virtual-machines/linux/backup-and-disaster-recovery-for-azure-iaas-disks>

#### **QUESTION 82**

A company has implemented a dual-region (Region 1 and Region 2) cloud strategy from its current CSP. Both regions have the same data in them. Region 2 is experiencing an outage.

Which of the following is the BEST way to provide service to users in Region 2 during the outage while allowing access to the data?

- A. Bring the backup instances online and provide Region 2 users access to their data.
- B. Add more network bandwidth to Region 2.
- C. Copy Region 1 data to a location in Region 3 and have users access their data.

D. Redirect users from Region 2 to Region 1.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 83

A customer is building a web cluster in which all nodes must access a shared pool of images.

Which of the following storage types would be BEST for this workload?

- A. Block storage
- B. File-level access storage
- C. Direct attached storage
- D. Object Storage

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/cloud/learn/object-storage>

### QUESTION 84

Developers are frustrated by the deployment delay caused by setting up permissions and firewall rules.

Which of the following would be the BEST way to resolve this issue?

- A. Automate security services through the system life cycle.
- B. Train all staff on ITIL v3 and document the service management.
- C. Escalate to the change manager and reorganize the development team.
- D. Outsource security services to a reputable organization.

**Correct Answer:** A

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 85**

A non-critical vulnerability has been identified by a Linux vendor, who has released a patch and recommends that it be applied immediately.

Which of the following is the BEST plan for the cloud administrator to install the patch?

- A. Schedule an emergency maintenance window and deploy the patch to servers in production.
- B. Deploy the patch to the failover cluster and force a failover to the patched environment.
- C. Deploy the patch to half of the servers in production and monitor for any issues.
- D. Deploy the patch to the development and QA environments and request a functional test review.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

Government agencies currently operate their own websites, each with its own directory services. There is a mandate to minimize IT administration.

Which of the following should the cloud services architect choose to BEST meet this mandate?

- A. Set up a direct VPN tunnel between the government sites.
- B. Upgrade all stand-alone systems to use mobile technologies.
- C. Upgrade the operating systems on all of the web servers.
- D. Reengineer the identification and authorization process.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 87**

A cloud systems administrator manually archives security logs. Every time the administrator goes on vacation, users are unable to browse company websites.

Which of the following is the BEST way to resolve this issue?

- A. Automate the retention policies.
- B. Automate the removal of inactive accounts.
- C. Automate the removal of orphaned resources.
- D. Automate the addition of web servers.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 88

Given the metric below:

	Monday	Tuesday	Wednesday	Thursday	Friday
CPU utilization	20%	70%	40%	30%	20%
Disk latency	5ms	5ms	5ms	25ms	25ms
WAN latency	45ms	45ms	45ms	45ms	45ms
RAM utilization	20%	25%	30%	35%	45%

Using iSCSI storage reports across three datacenters, which of the following recorded metrics indicates an anomaly in the performance?

- A. Disk latency
- B. CPU utilization
- C. WAN latency
- D. RAM utilization

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 89

A cloud application development team needs to consider the following requirements to the built in as part of the application's authentication process:

- Customers should have the flexibility to use their own identity stores within the authentication process.
- Customers should not be asked to provide the credentials repeatedly for different applications with different permission sets.

Which of the following solutions would BEST help the team achieve the above business objectives? (Choose two.)

- A. Certificates
- B. Single sign-on
- C. One-time passwords
- D. Federation
- E. Multifactor authentication
- F. Hardware tokens

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 90

The sales department is preparing to launch a high-demand product for purchase through the company's online store. The senior engineer asks the junior engineer to review the sales cloud resources to plan for a surge in online traffic:

Resource	CPU	RAM	Disk	Network
Hypervisor cluster 1	22%	40%	29%	15%
Hypervisor cluster 2	75%	80%	16%	12%

Given the metrics in the table above, which of the following resources should be adjusted to plan for future growth?

- A. Propose additional memory for cluster 1.
- B. Propose additional storage for cluster 1.
- C. Propose additional guests for cluster 2.
- D. Propose additional hosts for cluster 2.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Ann, a cloud administrator, is reporting on how the organization has adhered to its marketing of 99.99999% system availability SLA.

Given this scenario, which of the following should Ann include in her report?

- A. System clock time
- B. System idle percentage
- C. System response time
- D. System uptime

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

A cloud-based web proxy is blocking key sites that a business requires for operation. After validation, the sites are legitimate, and access is required for end users to complete their work.

Which of the following is the BEST solution to allow access to the sites?

- A. Instruct users to bypass the cloud-based web proxy.
- B. Whitelist the URLs.
- C. Blacklist the URLs.
- D. Create a security group for those users and enforce MFA.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Based on demand, an IaaS provider wants to deploy a security application for its customers.

Which of the following is the BEST technique for the IaaS provider to apply this to target systems?

- A. Vendor application
- B. Scripting
- C. Orchestration
- D. Custom programming

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

A company is using storage-as-a-service from an IaaS provider for application services. The company has a mandate to protect personal information being stored on the cloud. The service provided includes encryption for in-transit data and requires a security solution for data-at-rest.

Which of the following should be deployed to secure the personal information?

- A. Implement data tokenization.
- B. Implement hardware-based encryption.
- C. Implement centralized key management.
- D. Implement database-embedded encryption.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://info.townsendsecurity.com/definitive-guide-to-encryption-key-management-fundamentals>

#### **QUESTION 95**

Asynchronous data replication for a SaaS application occurs between Regions A and B. Users in Region A are reporting that the most current data for an insurance claims application is not available to them until after 11:30 a.m. The cloud administrator for this SaaS provider checks the network utilization and finds that only about 10% of the network bandwidth is being used.

Which of the following describes how the cloud administrator could BEST resolve this issue?

- A. Check the storage utilization logs in both regions.
- B. Check the RAM utilization logs in both regions.
- C. Check the CPU utilization logs in both regions.
- D. Check the storage commit logs in both regions.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 96**

A cloud administrator sets up performance monitoring, which raises alerts. The monitoring runs periodically and checks for the suggested parameters. However, alerts are not being raised in a timely fashion.

Which of the following is the MOST appropriate action to resolve the issue?

- A. Shorten the probing period for alerts.
- B. Configure schedule alerts.
- C. Enable autocorrelation for alerts.
- D. Implement scaling alerts.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 97**

A cloud administrator has deployed a new web application to a private cloud. The application platform consists of two web servers that communicate to a redundant database back end. The traffic to the web servers is directed by a load balancer appliance. The administrator connects to the website on each of the web servers individually and confirms they are able to log in.

Which of the following aspects of the application has the administrator tested successfully?

- A. Connectivity
- B. Failover

- C. Data Integrity
- D. Performance

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 98**

A consultant is helping a gaming-as-a-service company set up a new cloud. The company recently bought several graphic cards that need to be added to the servers.

Which of the following should the consultant suggest as the MOST cost effective?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

#### **QUESTION 99**

A Big Data analytics company wants to ensure its data is protected at rest.

Which of the following is the BEST hardware-based solution?

- A. Self-encrypting disk
- B. Tokenization
- C. LUN masking
- D. Deduplication

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 100**

Joe, a developer, has a virtualization environment consisting of four hosts. Joe needs to configure the environment to be able to place new VMs automatically to the recommended host with more resources.

Which of the following must be enabled on the environment to achieve this?

- A. Dynamic power control
- B. Workload scheduling
- C. High Availability
- D. Load balancing

**Correct Answer: B**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 101**

A new service request asks for all members of the finance department to have access to the accounting department's file server VMs on the private cloud environment.

Which of the following is the MOST efficient way to fulfill this service request?

- A. Set up duplicate file server VMs that the finance department has access to and enable two-way replication.
- B. Add all users of the finance department to the accounting department's file server VMs access lists.
- C. Implement a single sign-on and two-factor authentication solution using a soft token.
- D. Create a new group for the finance department that will allow access to the accounting department's file server VMs.

**Correct Answer: A**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**



**QUESTION 102**

A VM was successfully tested in a lab environment. As part of the deployment preparation, the image needs to be backed up for use in the multi-rollout accompanied by orchestration templates.

Which of the following should be used to create the image?

- A. Snapshot
- B. Replica
- C. Full
- D. Clone

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 103**

A company has a private cloud NAC solution in place to prevent unauthorized/non-company assets from connecting to the internal network. A cloud systems administrator cannot add a new physical server to the existing functioning cluster.

Which of the following is the MOST likely cause of this issue?

- A. Server objects were deleted.
- B. The DNS and DHCP servers are down.
- C. The new physical server has a faulty NIC.
- D. Server MAC addresses are not being updated.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 104**

A cloud architect is deploying a VM in a public IaaS cloud. The software that will be installed on the VM is not compatible with any of the OS versions in the system images offered by the IaaS vendor.

Which of the following is the BEST way to deploy a VM with the required OS?

- A. Develop a VM image on an on-premises hypervisor and send it on a physical hard drive to the cloud provider's datacenter.
- B. Use a bare metal service instead of IaaS and verify that the bring-your-own OS feature is available.
- C. Develop a VM image on an on-premises hypervisor and upload it to the cloud via API.
- D. Host the server on premises and integrate it with the IaaS service using the hybrid cloud model.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 105

An administrator is creating new servers in a public cloud. The workflow creates an application group with three VMs, one web server, one application server and one database server. The three VMs are all accessible via SSH, but the websites shows a 503-error referring to a database issue.

Which of the following is the MOST likely cause of the error?

- A. Misconfigured VLAN
- B. Misconfigured proxy
- C. Misconfigured firewall rule
- D. Misconfigure routing

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://support.microsoft.com/en-us/help/4464854/scenario-5-my-website-is-throwing-http-error-503-the-service-is-unavai>

#### QUESTION 106

A customer has indicated that bi-weekly full backups are taking too long to complete.

Which of the following would be the BEST action if minimizing restore time is very important to the customer?

- A. Change the backup to synthetic full backups.
- B. Change the second full backup in a week to incremental.

- C. Change the second full backup in a week to differential.
- D. Change the schedule of full backups to start earlier.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 107**

A facilities management company uses a private cloud that bursts to a public cloud at times. The CSA is asked to check the amount of storage that is used when the organization is overutilizing on-premises resources.

Which of the following should the CSA check?

- A. Ensure deduplication is enabled on all storage volumes.
- B. Check storage utilization in the public cloud.
- C. Verify storage utilization in the private cloud.
- D. Confirm storage utilization in the public cloud backup environment.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 108**

A law firm wants to limit log retention to the minimum required by law and regulation. Which of the following is the engineer most likely to do FIRST?

- A. Create a 2GB external hard drive to log all activities.
- B. Configure all systems in scope to log activities in support of company policies.
- C. Configure a daily rotation on all workstations to limit the logs' discovery scope.
- D. Deduplicate, compress, and encrypt all logs before archiving them.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 109**

Cloud developers are experiencing a delay caused by the static code review before each deployment. The security operator and developer must address the issue without cutting corners with security testing. Which of the following would BEST address the delay issue?

- A. Replace the static code analysis with hardening techniques.
- B. Perform the static code analysis earlier in the SDLC.
- C. Perform a penetration test instead of a static code analysis.
- D. Replace the static code analysis with a vulnerability analysis.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 110**

All the virtual server instances within an organization's private cloud environment are having trouble logging into the Kerberos realm. Upon investigation, the CSA notices the time stamps are different on the server virtual instances. Which of the following should be the CSA's NEXT step to resolve this issue?

- A. Check the Kerberos token time stamp.
- B. Check the NTP server to see when it last rebooted.
- C. Check the NTP server synchronization.
- D. Check the virtual server time display format.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 111**

A company provides IaaS services. Which of the following disk provisioning models for creating standard template should the company use to provision virtual instances?

- A. Thin disk

- B. SCSI disk
- C. SATA disk
- D. Thick disk

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 112**

Several state and local law enforcement agencies have decided to share information about traffic violations within their state by using a new search application. The state has policies around limiting the exposure of PII, and each local agency must comply with these policies. Which of the following cloud architecture models would be the BEST approach?

- A. Deploy the application to a public cloud and establish connections for each local agencies' private cloud and use federation.
- B. Have each local agency publish its data to an account that has been set up in a public cloud provider and deploy the application there.
- C. Deploy the application in each local agency's private cloud and create accounts for everyone to allow access to publish and search the data.
- D. Deploy the application in the state's shared cloud environment and create federation between the local agencies.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 113**

A cloud engineer is upgrading a high-performance computing cluster for the private cloud. The existing cluster is being replaced with GPU servers. A single GPU server is capable of the same teraflops output as 10 CPU servers. The current cluster configuration is as follows:

- 100 quad-core CPU servers capable of producing 100 teraflops.
- The baseline and current usage is 100%.

The new cluster was set up and benchmarked in four different configurations. Which of the following configurations will meet the baseline teraflops performance of the cluster while maintaining the current usage?

- A. 1 GPU server, 80 CPU servers
- B. 2 GPU servers, 50 CPU servers
- C. 5 GPU servers, 40 CPU servers

D. 9 GPU servers, 10 CPU servers

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 114**

A company wants to set up a new department using private cloud resources. The new department needs access to sales and financial data, but it should be prohibited from accessing human resources data. Which of the following is the BEST option to configure on the virtual (software-defined) network to meet these requirements?

A. VSAN

B. VLAN

C. GRE

D. VPN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 115**

A company is in the process of evaluating cloud service providers, as it is planning to move all of its on-premises IT services to the cloud. Most of the applications are mission critical with four 9s and five 9s uptime. The area where the company is located is also prone to natural disasters. One of the main requirements is that IT services need to survive local outages as well as regional outages. One of the company's main customers is a government entity. Which of the following is the BEST way for a cloud engineer to address these requirements?

A. Select a cloud service provider with local, regional, and international failure zones.

B. Select a cloud service provider with local, national, and international failure zones.

C. Select a cloud service provider with local, regional, and national failure zones.

D. Select a cloud service provider with regional, national, and international failure zones.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 116**

An administrator is using a script to create ten new VMs in a public cloud. The script runs and returns no errors. The administrator confirms that all ten VMs show up in the dashboard, but only the first eight reply to pings. Which of the following is the MOST likely cause of the issue?

- A. Workflow credential errors
- B. API request limitations
- C. IP address depletion
- D. Batch job scheduling issue

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 117**

An administrator needs to deploy a new release of an application in a way that allows a quick rollback to the previous version of the application. Which of the following is the BEST strategy to apply?

- A. Deploy the application to a set of servers in small batches. If a rollback is necessary, restore the previous deployment from snapshots or backups.
- B. Deploy the application to a subset of servers that expose the new application. Direct all traffic to these servers. If a rollback is necessary, redirect all traffic to the previous subset of servers.
- C. Deploy the application to the servers in a backup datacenter or secondary cloud deployment. Shut down the servers in the primary datacenter, forcing all traffic to the failover location. If a rollback is necessary, restart the primary environment and shut down the secondary environment.
- D. Deploy the application to all servers in the datacenter or cloud environment. If a rollback is necessary, undeploy the application and deploy the previous version.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 118**

A production IaaS database server contains PCI data and is a critical business capability. The CAB approved a normal code change release for QA and PROD to

occur 30 minutes apart and to last a maximum of one hour. The cloud DBA team is 45 minutes behind schedule, so they miss the start time on QA. As the cloud DBA, which of the following is the BEST course of action to apply the code change?

- A. Skip QA and apply the code change to PROD to meet time requirements
- B. Resubmit another change request for another time for approval
- C. Submit an emergency CAB approval to change the time to after business hours
- D. Change the time in the CAB request and apply the code change at a more convenient time

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 119**

A customer wants to remove a user's access to the SaaS CRM system. Which of the following methods should be executed FIRST?

- A. User account removal
- B. User account lockout
- C. User account password change
- D. User account disablement

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 120**

A company is required to ensure all access to its cloud instance for all users to utilize two-factor authentication. The QA team confirms all functional requirements successfully test. After deployment, all business users report the two-factor authentication is not enforced while accessing the instance. Which of the following would be the MOST likely reason the QA team did not catch the issue?

- A. The business users are using the wrong hardware token to log in.
- B. The administrator configured to use two-factor authentication by default.
- C. The QA team only tested functional requirements.
- D. The business users are accessing the instance located in their country.



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 121

A company has an internal SLA for CPU and RAM oversubscription that should stay below 120%. Storage utilization should stay below 90% with oversubscription below 160%. Given the following:

Hypervisor CPU subscription	150%
Hypervisor RAM subscription	130%
Storage utilization	80%
Storage subscription	120%

Which of the following should be done to meet the SLA?

- A. Install a different hypervisor
- B. Add RAM to the hypervisors and new shelves to the storage array
- C. Add RAM to the hypervisors and increase the CPU clock
- D. Add CPU and RAM to the cluster

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 122

A systems administrator created several new VMs on a private cloud and wants to ensure the new baseline still meets corporate guidelines. The administrator finds the following new load numbers on the hosts:

HOST	CPU	RAM	DISK	NETWORK
HOST A	22%	85%	94%	47%
HOST B	45%	75%	36%	52%
HOST C	53%	75%	42%	60%
HOST D	85%	75%	93%	75%

If corporate policy requires N+1 host capacity, which of the following metrics is MOST likely to present a problem?

- A. CPU
- B. RAM
- C. DISK
- D. NETWORK

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 123

A cloud engineer is deploying a new application to a multicloud platform. After running the script, the engineer sees the VMs were not created on one of the cloud providers. The engineer confirms the proper credentials are being used for all cloud providers and there is available capacity. Which of the following is the MOST likely cause of the deployment failure?

- A. The cloud provider was not available.
- B. The application does not have an adequate number of licenses.
- C. The additional cloud provider is in a separate time zone.
- D. The script created to be deployed does not match the cloud provider API.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 124

A cloud administrator is deploying a memory-intensive, three-tier web application with a database back end to one server in an IaaS cloud platform. The minimum

application memory requirements are as follows:

- RAM for Web Service Role: 1024MB
- RAM for Application Service Role: 2048MB
- RAM for Database Service Role: 4192MB

Configuration requirements state that web content should be separated from the operating system on another drive. Given this scenario, which of the following is the minimum amount of RAM required in GB and what is the most optimal logical volume design to BEST meet these requirements? (Choose two.)

- A. 5GB
- B. 6 GB
- C. 7GB
- D. C:\Drive: OS, Web Service Role, Application Service Role, Database Service Role
- E. C:\Drive: OS  
G:\Drive: Web Service Role, Application Service Role, Database Service Role
- F. C:\ Drive: OS, Web Service Role  
G:\Drive: Application Service Role, Database Service Role

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 125

Joe, a cloud administrator, is no longer able to SSH to his cloud management console after he returns from a two-week vacation. A coworker was able to connect from the management station with no issue. During the last two weeks, the desktop team replaced all administrator machines with newer ones. Which of the following must Joe do FIRST to troubleshoot his access?

- A. Rename the SSH key folder on his machine to keys\_allow.
- B. Ensure he has the same host key as his coworker.
- C. Ensure his host is configured to use the correct load balancer.
- D. Ensure the management console is configured with the correct host key.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 126**

After running monthly capacity reports on private cloud hosts, an engineer decides the CPU overcommitment ratio on the cluster is affecting performance on the VMs. If the engineer is trying to minimize costs, which of the following actions is the engineer MOST likely to take?

- A. Increase the socket count on cloud hosts.
- B. Turn on ballooning on the VMs.
- C. Decrease the core count on the VMs.
- D. Deploy more VMs to each host.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 127**

The on-premises database server is experiencing high memory and CPU utilization over the course of a month. The current on-premises infrastructure is at capacity with no ability to scale up. The Chief Technology Officer (CTO) has asked the CSA to provide a solution without any capital expenditure. Which of the following is the BEST solution to resolve the issue?

- A. Increase CPU on the database server.
- B. Allocate more RAM to the database server.
- C. Increase storage on the database server.
- D. Migrate the database to DBaaS.
- E. Migrate the database to a new server.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 128**

A systems administrator migrated a company's CRM middleware to a VPC and left the database in the company's datacenter. The CRM application is now accessible over the Internet. A VPN between the company network and the VPC is used for the middleware to communicate with the database server. Since the migration, users are experiencing high application latency. Which of the following should the company do to resolve the latency issue?

- A. Increase the resources for the middleware.
- B. Add more resources to the VPC.
- C. Move the database into the cloud.
- D. Implement load balancers in the VPC.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 129**

A cloud administrator needs to give a new developer access to contents in a directory stored in a public cloud provider. Which of the following is the BEST way to do this?

- A. Add the developer to the role that has access to the directory contents.
- B. Create a folder for the developer in the public cloud and copy the content to this folder.
- C. Copy the contents of the folder to the developer's local computer.
- D. Temporarily give the administrator's credentials and reset the password.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 130**

A customer has requirements for its application data to be copied into a second location for failover possibilities. Latency should be minimized, while RPO and RTO are over 15 minutes. Which of the following technologies BEST fits the customer's needs?

- A. Data mirroring
- B. Snapshot copies
- C. Storage cloning
- D. Asynchronous replication

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://cdn.armor.com/app/uploads/2015/09/27223157/Armor-disaster-recovery-white-paper.pdf>

**QUESTION 131**

A cloud administrator for a customer's environment must ensure the availability of critical applications. The cloud provider hosting the infrastructure lost power, and the environment was down for four hours. Which of the following solutions is MOST suitable for ensuring availability of critical applications?

- A. Install services at alternate sites.
- B. Enable HA on the critical infrastructure.
- C. Move services to a third-party environment.
- D. Deploy additional services to edge sites.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 132**

A company needs to extend its on-premises private cloud to an external cloud provider to meet the needs of additional storage and database services. The cloud architect also needs to implement a technique to meet data-in-transit requirements. Which of the following is the BEST design to meet the company's needs?

- A. Analyze and implement a network ACL policy.
- B. Analyze the requirements and implement an MPLS.
- C. Analyze and implement a TLS tunnel.
- D. Analyze and implement site-to-site VPN.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 133**

A private cloud administrator needs to configure replication on the storage level for a required RPO of 15 minutes and RTO of one hour. Which of the following

replication types would be the BEST to use?

- A. Cold storage
- B. Regional
- C. Asynchronous
- D. Multiregional

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 134**

A company has implemented a change management process that allows standard changes during business hours. The company's private cloud hardware needs firmware updates and supports rolling upgrades. Which of the following considerations should be given to upgrade firmware and make the change as transparent as possible to users?

- A. Implement the change as a standard change.
- B. Notify users before applying the change during the day.
- C. Fail the application over to perform the upgrade.
- D. Perform the change during off-hours to minimize the impact on users.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 135**

A company's cloud administrator receives an advisory notice from the CSP. The CSP runs quarterly tests on its platform and customer's environments. The cloud administrator reads the notice and sees the company's environment is at risk of buffer over-read exploits. Which of the following tests is the CSP MOST likely running on a quarterly basis?

- A. Load testing
- B. Data integrity testing
- C. Vulnerability testing

D. Performance testing

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 136**

A company is consuming a SaaS solution with a large user base and wants to minimize user management, but also ensure access is as secure as possible. Which of the following should the cloud administrator select to help meet these requirements? (Choose two.)

A. MFA

B. ACL

C. AAA

D. SSO

E. NAC

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 137**

A cloud engineer is required to ensure all servers in the cloud environment meet requirements for PCI compliance. One of the requirements is to make certain all administrator logins and commands are logged. Which of the following is the BEST approach to meet these requirements?

A. Enable configuration change tracking for all servers in the public cloud provider's dashboard.

B. Enable detailed monitoring for all servers in the public cloud provider's dashboard.

C. Define and enable audit tracking rules on each server in the public cloud environment.

D. Modify the cloud provider's role-based authorization policies to log user session activity.

**Correct Answer:** A

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 138**

A financial services company has a requirement to keep backups on premises for 30 days and off-site for up to seven years to a location that is within 100mi (161km) of the primary datacenter location. Recovery times for backups kept on-site have an RTO of one hour, while recovery times for backups kept off-site have an RTO of four hours. Which of the following solutions BEST solves this requirement?

- A. Implement a full-based backup and recovery solution for backups within 30 days or less. For backups kept longer than 30 days, migrate them to a cloud provider that will host the data within 100mi (161km) of the financial services company's primary datacenter.
- B. Implement a clone-based backup and recovery solution for backups within 30 days or less. For backups kept longer than 30 days, migrate them to a cloud provider that will host the data within 100mi (161km) of the financial services company's primary datacenter.
- C. Implement an incremental-based backup and recovery solution for backups within 30 days or less. For backups kept longer than 30 days, migrate them to a cloud provider that will host the data within 62mi (100km) of the financial services company's primary datacenter.
- D. Implement a snapshot-based backup and recovery solution for backups within 30 days or less. For backups kept longer than 30 days, migrate them to a cloud provider that will host the data within 100mi (161km) of the financial services company's primary datacenter.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 139**

A company is seeking a new backup solution for its virtualized file servers that fits the following characteristics:

- The files stored on the servers are extremely large.
- Existing files receive multiple small changes per day.
- New files are only created once per month.
- All backups are being sent to a cloud repository.

Which of the following would BEST minimize backup size?

- A. Local snapshots
- B. Real-time backups
- C. File-based replication
- D. Change block tracking

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 140**

A company hired a consultant to diagnose and report performance issues of an application hosted on an IaaS, three-tier application. The cloud administrator must provision only the access required by the consultant to complete the job. Which of the following resource configurations should be applied to the consultant's account? (Choose two.)

- A. Read/write access to the load balancer and its configuration settings
- B. Administrator account on the resources in that region
- C. Read/write access to the cloud compute resources
- D. Read-only access to the server OS logs
- E. Read-only access to the cloud resource diagnostic logs
- F. Administrator account in the server OS

**Correct Answer: CE**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 141**

Which of the following solutions BEST complies with laws requiring secure data-at-rest for a critical application while keeping in mind the need for reduced costs?

- A. Install a new array with hardware encryption disks.
- B. Enable encryption on the back-end database.
- C. Use IPSec on the storage array.
- D. Enable HTTPS on the application.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 142**

A manufacturing company has the following DR requirements for its IaaS environment:

- RPO of 24 hours
- RTO of 8 hours

The company experiences a disaster and has a two-site hot/cold configuration. Which of the following is the BEST way for the company to recover?

- A. Restore data from the archives on the hot site, point users to it, and resume operations.
- B. Bring the cold site online, point users to it, and resume operations.
- C. Rebuild the site from the cold site, bring the site back online, and point users to it.
- D. Replicate data from the non-failed site to another cloud provider, point users to it, and resume operations.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 143**

A systems administrator needs to deploy a database that saves a unique ID/hash at the beginning of each block into a private cloud. The administrator needs to maximize storage savings. The administrator has multiple storage policies set. Which of the following would be the BEST option for this deployment?

- A. Compression enabled
- B. Deduplication enabled
- C. Mirroring enabled
- D. Tokenization enabled

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 144**

A cloud security analyst performs a vulnerability scan on a web application server across all staging environments. According to the vulnerability scan, the web content featured on the server in the staging environment is located on the C:\ drive, which is the same location housing the operating system.

The analyst determines the results are false positive and submits a report, which includes artifacts supporting the claim to the CAB. Given this scenario, which of the following test plans would be the MOST appropriate to include in the report?

- A. Penetration test plan
- B. Vulnerability test plan
- C. User acceptance test plan
- D. Smoke test plan

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 145**

Of ten newly deployed VMs from a single template, the cloud administrator notices one VM has direct root access enabled and automatic configuration control disabled. These settings do not comply with the company's policies for production VMs. Which of the following is the MOST likely cause of this situation?

- A. Another administrator intentionally changed the settings.
- B. The template is misconfigured.
- C. There is provisioning workflow breakdown.
- D. There is a bug in the current hypervisor version.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 146**

A healthcare provider determines a Europe-based SaaS electronic medical record system will meet all functional requirements. The healthcare provider plans to sign a contract to use the system starting in the next calendar year. Which of the following should be reviewed prior to signing the contract?

- A. Security auditing
- B. Storage cost and types
- C. Bandwidth utilization
- D. Third-party integration

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 147**

A cloud administrator runs a maintenance script to remove unused resources. After the maintenance has been performed, users report they can no longer access the application website. The administrator confirms the server is up and responding on the proper ports. Which of the following cleanup actions MOST likely caused the problem?

- A. Removing inactive accounts
- B. Removing outdated firewall rules
- C. Removing stale DNS entries
- D. Removing orphaned resources

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 148**

Given the IaaS cloud service model, at which of the following layers of the platform does microsegmentation BEST apply?

- A. Compute
- B. Storage
- C. Network
- D. Management

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.guardicore.com/micro-segmentation/>

**QUESTION 149**

A cloud application has been in production for six months without any issues. Shortly after increasing the number of users assigned to the application, however, users start reporting errors. The administrator does not see any resource thresholds being exceeded in the cloud dashboard. Which of the following is the MOST likely cause of the errors?

- A. Failed autoscaling
- B. IP address limitations
- C. License exhaustion
- D. Bandwidth saturation

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 150**

A cloud engineer recently applied the troubleshooting process for a major connectivity issue. Which of the following is the FINAL step in the troubleshooting methodology?

- A. Document findings, actions, and outcomes.
- B. Establish a plan of action to resolve the problem and implement the solution.
- C. Confirm the root cause of the issue.
- D. Verify full system functionality and, if applicable, implement preventive measures.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 151**

A company has a requirement of an active/active datacenter and wants to implement synchronous replication for all its storage services. The company is doing a proof of concept with a datacenter provider that has two datacenters 200mi (322km) apart that utilize MPLS. Each time the company starts synchronous replication, it fails. All network connectivity has been established and is functioning correctly. Which of the following is the MOST likely cause?

- A. Latency between datacenters
- B. Applications are latency tolerant

- C. Link bandwidth between datacenters
- D. Link between datacenters is not fiber

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 152**

The development team of an e-commerce organization is migrating its code libraries to a public IaaS cloud provider, and the security policy states that source code must use multiple security controls to secure and restrict access. Which of the following combinations of controls would be BEST to meet the requirements?

- A. Use directory federation across the organization for all users and biometric access on the developers' laptop instead of VPN.
- B. Use VPN and two-factor authentication for the developers to access the online repositories for remote developers.
- C. Use SSO across the organization and an existing data loss prevention solution to prevent code repository leakage.
- D. Use a third-party CASB solution that sets policies to detect potential compromise of code libraries.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 153**

Company A acquires Company B. The resources need to be added accordingly to the SaaS environment. Which of the following resources should be changed by the tenant?

- A. Compute
- B. Storage
- C. Users
- D. Application

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 154**

A security analyst is reviewing logs and sees a former employee's account has been used to access critical information on a private cloud resource. The analyst examines firewall and IPS logs but does not find traffic that is relevant to the breach. Which of the following is the MOST likely source of the compromise?

- A. External attack
- B. Internal role change
- C. External privilege escalation
- D. Internal attack

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 155**

A company is migrating its application to a cloud provider. Six months before going live, a representative from each stakeholder group validated the functionality and performance in the QA environment and did not identify any issues. After going live, the system response time is slower than the testing environment. Which of the following is the MOST likely gap in the testing plan?

- A. The test scenario audiences are different between QA and production.
- B. The application version deployed in production is different than the one deployed in QA.
- C. System configuration testing in QA and production is different.
- D. The test plan in QA is different than the production environment.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



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