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## Exam A

### QUESTION 1

A company has decided to scale its e-commerce application from its corporate datacenter to a commercial cloud provider to meet an anticipated increase in demand during an upcoming holiday.

The majority of the application load takes place on the application server under normal conditions. For this reason, the company decides to deploy additional application servers into a commercial cloud provider using the on-premises orchestration engine that installs and configures common software and network configurations.

The remote computing environment is connected to the on-premises datacenter via a site-to-site IPSec tunnel. The external DNS provider has been configured to use weighted round-robin routing to load balance connections from the Internet.

During testing, the company discovers that only 20% of connections completed successfully.

### Instructions

Review the network architecture and supporting documents and fulfill these requirements:

#### Part 1:

Analyze the configuration of the following components: DNS, Firewall 1, Firewall 2, Router 1, Router 2, VPN and Orchestrator Server.

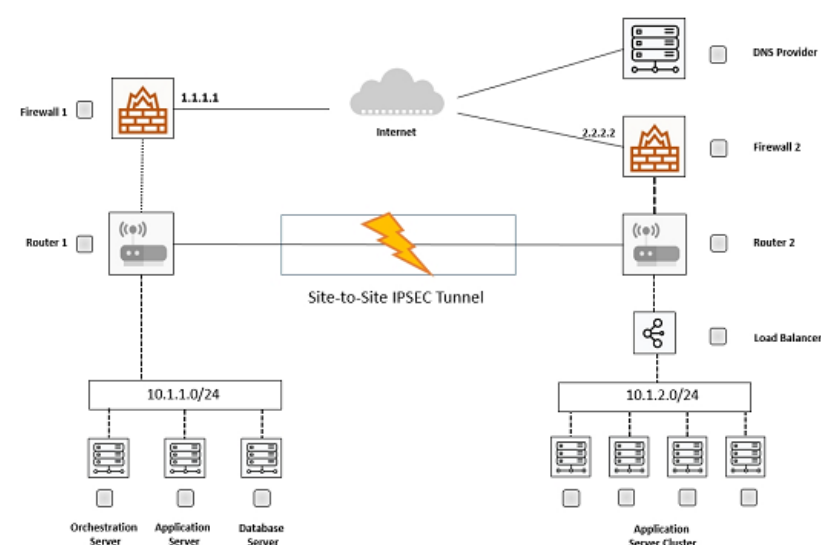
Identify the problematic device(s).

#### Part 2:

Identify the correct options to provide adequate configuration for hybrid cloud architecture.

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

#### Part 1



#### Part 2

Only select a maximum of TWO options from the multiple choice question (Choose two.)

- A. Update the PSK (Pre-shared key) in Router 2.
- B. Update the A record on the DNS from 2.2.2.2 to 1.1.1.1.
- C. Promote deny All to allow All in Firewall 1 and Firewall 2.
- D. Change the Address Space on Router 2.
- E. Change internal IP Address of Router 1.
- F. Reverse the Weight property in the two CNAME records on the DNS.
- G. Add the Application Server at on-premises to the Load Balancer.

**Correct Answer:** DF

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 2**

An organization suffered a critical failure of its primary datacenter and made the decision to switch to the DR site. After one week of using the DR site, the primary datacenter is now ready to resume operations.

Which of the following is the MOST efficient way to bring the block storage in the primary datacenter up to date with the DR site?

- A. Set up replication.
- B. Copy the data across both sites.
- C. Restore incremental backups.
- D. Restore full backups.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/docs/en/cloud-pak-system-w3550/2.3.3?topic=system-administering-block-storage-replication>

**QUESTION 3**

A cloud administrator is building a new VM for machine-learning training. The developer requesting the VM has stated that the machine will need a full GPU dedicated to it. Which of the following configuration options would BEST meet this requirement?

- A. Virtual GPU
- B. External GPU
- C. Passthrough GPU
- D. Shared GPU

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://blogs.vmware.com/apps/2018/09/using-gpus-with-virtual-machines-on-vsphere-part-2-vmdirectpath-i-o.html>

**QUESTION 4**

Which of the following service models would be used for a database in the cloud?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://theappolutions.com/blog/cloud/cloud-service-models/>

**QUESTION 5**

A VDI administrator has received reports from the drafting department that rendering is slower than normal. Which of the following should the administrator check FIRST to optimize the performance of the VDI infrastructure?

- A. GPU
- B. CPU
- C. Storage
- D. Memory

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.computer.org/publications/tech-news/trends/7-tips-for-faster-3d-rendering>

#### QUESTION 6

A Chief Information Security Officer (CISO) is evaluating the company's security management program. The CISO needs to locate all the assets with identified deviations and mitigation measures. Which of the following would help the CISO with these requirements?

- A. An SLA document
- B. A DR plan
- C. SOC procedures
- D. A risk register

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

A cloud engineer is responsible for managing a public cloud environment. There is currently one virtual network that is used to host the servers in the cloud environment. The environment is rapidly growing, and the network does not have any more available IP addresses. Which of the following should the engineer do to accommodate additional servers in this environment?

- A. Create a VPC and peer the networks.
- B. Implement dynamic routing.
- C. Enable DHCP on the networks.
- D. Obtain a new IPAM subscription.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

A system administrator is migrating a bare-metal server to the cloud. Which of the following types of migration should the systems administrator perform to accomplish this task?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

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

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

The current private cloud has 30 vCPUs and 512GB RAM available. The company is looking for a quick solution to launch this application, with expected maximum sessions to be close to 24,000 at launch and an average of approximately 5,000 sessions. Which of the following solutions would help to company accommodate the new workload in the SHORTEST amount of time and with the maximum financial benefits?

- A. Configure auto-scaling within the private cloud.

- B. Set up cloud bursting for the additional resources.
- C. Migrate all workloads to a public cloud provider.
- D. Add more capacity to the private cloud.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

A cloud administrator is reviewing the authentication and authorization mechanism implemented within the cloud environment. Upon review, the administrator discovers the sales group is part of the finance group, and the sales team members can access the financial application. Single sign-on is also implemented, which makes access much easier. Which of the following access control rules should be changed?

- A. Discretionary-based
- B. Attribute-based
- C. Mandatory-based
- D. Role-based

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

A company developed a product using a cloud provider's PaaS platform and many of the platform-based components within the application environment. Which of the following would the company MOST likely be concerned about when utilizing a multicloud strategy or migrating to another cloud provider?

- A. Licensing
- B. Authentication providers
- C. Service-level agreement
- D. Vendor lock-in

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

A systems administrator is trying to establish an RDP session from a desktop to a server in the cloud. However, the connection appears to be refused even though the VM is responding to ICMP echo requests. Which of the following should the administrator check FIRST?

- A. The firewall
- B. The subnet
- C. The gateway
- D. The services

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

Which of the following would be the BEST option for discussion of what individuals should do in an incident response or disaster recovery scenario?

- A. A business continuity plan
- B. Incident response/disaster recovery documentation

- C. A tabletop exercise
- D. A root cause analysis

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

A systems administrator has migrated an internal application to a public cloud. The new web server is running under a TLS connection and has the same TLS certificate as the internal application that is deployed. However, the IT department reports that only internal users who are using new versions of the OSs are able to load the application home page. Which of the following is the MOST likely cause of the issue?

- A. The local firewall from older OSs is not allowing outbound connections.
- B. The local firewall from older OSs is not allowing inbound connections.
- C. The cloud web server is using a self-signed certificate that is not supported by older browsers.
- D. The cloud web server is using strong ciphers that are not supported by older browsers.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

A systems administrator is configuring RAID for a new server. This server will host files for users and replicate to an identical server. While redundancy is necessary, the most important need is to maximize storage. Which of the following RAID types should the administrator choose?

- A. 5
- B. 6
- C. 10
- D. 50



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://mysupport.netapp.com/NOW/public/eseries/sam\\_archive1150/index.html#page/GUID-8538272A-B802-49D9-9EA2-96C82DAD26A2/GUID-1BF9A33B-C3A1-487C-B8D8-5F2C14E3ED2E.html](https://mysupport.netapp.com/NOW/public/eseries/sam_archive1150/index.html#page/GUID-8538272A-B802-49D9-9EA2-96C82DAD26A2/GUID-1BF9A33B-C3A1-487C-B8D8-5F2C14E3ED2E.html)

#### QUESTION 16

A cloud architect is designing the VPCs for a new hybrid cloud deployment. The business requires the following:

- High availability
- Horizontal auto-scaling
- 60 nodes peak capacity per region
- Five reserved network IP addresses per subnet
- /24 range

Which of the following would BEST meet the above requirements?

- A. Create two /25 subnets in different regions.
- B. Create three /25 subnets in different regions.
- C. Create two /26 subnets in different regions.
- D. Create three /26 subnets in different regions.
- E. Create two /27 subnets in different regions.
- F. Create three /27 subnets in different regions.

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:****QUESTION 17**

A company recently experienced a power outage that lasted 30 minutes. During this time, a whole rack of servers was inaccessible, even though the servers did not lose power. Which of the following should be investigated FIRST?

- A. Server power
- B. Rack power
- C. Switch power
- D. SAN power

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 18**

A cloud provider wants to make sure consumers are utilizing its IaaS platform but prevent them from installing a hypervisor on the server. Which of the following will help the cloud provider secure the environment and limit consumers' activity?

- A. Patch management
- B. Hardening
- C. Scaling
- D. Log and event monitoring

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 19**

A resource pool in a cloud tenant has 90 GB of memory and 120 cores. The cloud administrator needs to maintain a 30% buffer for resources for optimal performance of the hypervisor. Which of the following would allow for the maximum number of two-core machines with equal memory?

- A. 30 VMs, 3GB of memory
- B. 40 VMs, 1,5GB of memory
- C. 45 VMs, 2 GB of memory
- D. 60 VMs, 1 GB of memory

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 20**

A company that utilizes an IaaS service provider has contracted with a vendor to perform a penetration test on its environment. The vendor is able to exploit the virtualization layer and obtain access to other instances within the cloud provider's environment that do not belong to the company. Which of the following BEST describes this attack?

- A. VM escape
- B. Directory traversal
- C. Buffer overflow
- D. Heap spraying

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://whatis.techtarget.com/definition/virtual-machine-escape>

**QUESTION 21**

A systems administrator is troubleshooting network throughput issues following a deployment. The network is currently being overwhelmed by the amount of traffic between the database and the web servers in the environment. Which of the following should the administrator do to resolve this issue?

- A. Set up affinity rules to keep web and database servers on the same hypervisor.
- B. Enable jumbo frames on the gateway.
- C. Move the web and database servers onto the same VXLAN.
- D. Move the servers onto thick-provisioned storage.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

An update is being deployed to a web application, and a systems administrator notices the cloud SQL database has stopped running. The VM is responding to pings, and there were not any configuration changes scheduled for the VM. Which of the following should the administrator check NEXT?

- A. Logs on the VM
- B. Firewall on the VM
- C. Memory on the VM
- D. vGPU performance on the VM

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

A company is concerned about the security of its data repository that contains customer PII. A systems administrator is asked to deploy a security control that will prevent the exfiltration of such data. Which of the following should the systems administrator implement?

- A. DLP
- B. WAF
- C. FIM
- D. ADC

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://cloud.google.com/blog/products/identity-security/4-steps-to-stop-data-exfiltration-with-google-cloud>

**QUESTION 24**

An engineer is responsible for configuring a new firewall solution that will be deployed in a new public cloud environment. All traffic must pass through the firewall. The SLA for the firewall is 99.999%. Which of the following should be deployed?

- A. Two load balancers behind a single firewall
- B. Firewalls in a blue-green configuration
- C. Two firewalls in a HA configuration
- D. A web application firewall

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 25**

After a hardware upgrade on a private cloud system, the systems administrator notices a considerable drop in network performance. Which of the following is MOST likely the cause?

- A. The driver
- B. The memory
- C. The cluster placement
- D. The CPU

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

A systems administrator is trying to reduce storage consumption. Which of the following file types would benefit the MOST from compression?

- A. System files
- B. User backups
- C. Relational database
- D. Mail database

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

A technician just received the lessons learned from some recent data that was lost due to an on-premises file-server crash. The action point is to change the backup strategy to minimize manual intervention. Which of the following is the BEST approach for the technician to implement?

- A. Backup as a service
- B. RAID 1
- C. Long-term storage
- D. New backup devices

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

A marketing team is using a SaaS-based service to send emails to large groups of potential customers. The internally managed CRM system is configured to generate a list of target customers automatically on a weekly basis, and then use that list to send emails to each customer as part of a marketing campaign. Last week, the first email campaign sent emails successfully to 3,000 potential customers. This week, the email campaign attempted to send out 50,000 emails, but only 10,000 were sent. Which of the following is the MOST likely reason for not sending all the emails?

- A. API request limit
- B. Incorrect billing account
- C. Misconfigured auto-scaling
- D. Bandwidth limitation

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://developers.google.com/analytics/devguides/config/mgmt/v3/limits-quotas>

**QUESTION 29**

A developer is no longer able to access a public cloud API deployment, which was working ten minutes prior. Which of the following is MOST likely the cause?

- A. API provider rate limiting
- B. Invalid API token
- C. Depleted network bandwidth
- D. Invalid API request

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 30

A support engineer wants to prevent users from running malware on several IaaS compute instances. Which of the following will BEST achieve this objective?

- A. Encrypt all applications that users should not access.
- B. Set the execute filesystem permissions on the desired applications only.
- C. Implement an application whitelisting policy.
- D. Disable file sharing on the instance.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 31

A cloud administrator is reviewing the annual contracts for all hosted solutions. Upon review of the contract of the hosted mail solution, the administrator notes the monthly subscription rate has increased every year. The provider has been in place for ten years, and there is a large amount of data being hosted. Which of the following is a barrier to switching providers?

- A. Service-level agreement
- B. Vendor lock-in
- C. Memorandum of understanding
- D. Encrypted data

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 32

A systems administrator is creating a VM and wants to ensure disk space is not allocated to the VM until it is needed. Which of the following techniques should the administrator use to ensure?

- A. Deduplication
- B. Thin provisioning
- C. Software-defined storage
- D. iSCSI storage

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 33

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

- A. Identify the resources that are accessible to the affected IAM user.

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

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 34

A cloud administrator has deployed a new VM. The VM cannot access the Internet or the VMs on any other subnet. The administrator runs a network command and sees the following output:

```
IPv4 Address. . . . . 172.16.31.38
Subnet Mask. . . . . 255.255.255.224
Default Gateway. . . . . 172.16.31.254
```

The new VM can access another VM at 172.16.31.39. The administrator has verified the IP address is correct. Which of the following is the MOST likely cause of the connectivity issue?

- A. A missing static route
- B. A duplicate IP on the network
- C. Firewall issues
- D. The wrong gateway

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 35

A company is switching from one cloud provider to another and needs to complete the migration as quickly as possible. Which of the following is the MOST important consideration to ensure a seamless migration?

- A. The cost of the environment
- B. The I/O of the storage
- C. Feature compatibility
- D. Network utilization

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 36

A systems administrator disabled TLS 1.0 and 1.1, as well as RC4, 3DES, and AES-128 ciphers for TLS 1.2, on a web server. A client now reports being unable to access the web server, but the administrator verifies that the server is online, the web service is running, and other users can reach the server as well. Which of the following should the administrator recommend the user to do FIRST?

- A. Disable antivirus/anti-malware software.
- B. Turn off the software firewall.
- C. Establish a VPN tunnel between the computer and the web server.
- D. Update the web browser to the latest version.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

A cloud administrator has finished setting up an application that will use RDP to connect. During testing, users experience a connection timeout error. Which of the following will MOST likely solve the issue?

- A. Checking user passwords
- B. Configuring QoS rules
- C. Enforcing TLS authentication
- D. Opening TCP port 3389

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/troubleshoot/windows-server/remote/troubleshoot-remote-desktop-disconnected-errors>

**QUESTION 38**

A company just successfully completed a DR test and is ready to shut down its DR site and resume normal operations. Which of the following actions should the cloud administrator take FIRST?

- A. Initiate a failover.
- B. Restore backups.
- C. Configure the network.
- D. Perform a failback.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

An IaaS application has a two-hour RTO and four-hour RPO. The application takes one hour to back up its data or restore from a local backup file. A systems administrator is tasked with configuring the backup policy. Which of the following should the administrator configure to achieve the application requirements with the LEAST cost?

- A. Back up to long-term storage every night.
- B. Back up to object storage every three hours.
- C. Back up to long-term storage every four hours.
- D. Back up to object storage every hour.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

A systems administrator is troubleshooting performance issues with a Windows VDI environment. Users have reported that VDI performance has been slow since the images were upgraded from Windows 7 to Windows 10. This VDI environment is used to run simple tasks, such as Microsoft Office. The administrator investigates the virtual machines and finds the following settings:

- 4 vCPU
- 16GB RAM
- 10Gb networking
- 256MB frame buffer

Which of the following MOST likely needs to be upgraded?

- A. vRAM
- B. vCPU
- C. vGPU
- D. vNIC

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

An IaaS provider has numerous devices and services that are commissioned and decommissioned automatically on an ongoing basis. The cloud administrator needs to implement a solution that will help reduce administrative overhead. Which of the following will accomplish this task?

- A. IPAM
- B. NAC
- C. NTP
- D. DNS

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

An organization's web server farm, which is hosted in the cloud with DNS load balancing, is experiencing a spike in network traffic. This has caused an outage of the organization's web server infrastructure. Which of the following should be implemented to prevent this in the future as a mitigation method?

- A. Enable DLP.
- B. Configure microsegmentation.
- C. Enable DNSSEC.
- D. Deploy a vADC appliance.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

A vendor is installing a new retail store management application for a customer. The application license ensures software costs are low when the application is not being used, but costs go up when use is higher. Which of the following licensing models is MOST likely being used?

- A. Socket-based
- B. Core-based
- C. Subscription
- D. Volume-based

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

A systems administrator in a large enterprise needs to alter the configuration of one of the finance department's database servers. Which of the following should the administrator perform FIRST?

- A. Capacity planning
- B. Change management
- C. Backups
- D. Patching

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 45**

A database analyst reports it takes two hours to perform a scheduled job after onboarding 10,000 new users to the system. The analyst made no changes to the scheduled job before or after onboarding the users. The database is hosted in an IaaS instance on a cloud provider. Which of the following should the cloud administrator evaluate to troubleshoot the performance of the job?

- A. The IaaS compute configurations, the capacity trend analysis reports, and the storage IOPS
- B. The hypervisor logs, the memory utilization of the hypervisor host, and the network throughput of the hypervisor
- C. The scheduled job logs for successes and failures, the time taken to execute the job, and the job schedule
- D. Migrating from IaaS to on premises, the network traffic between on-premises users and the IaaS instance, and the CPU utilization of the hypervisor host

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 46**

A systems administrator is reviewing two CPU models for a cloud deployment. Both CPUs have the same number of cores/threads and run at the same clock speed. Which of the following will BEST identify the CPU with more computational power?

- A. Simultaneous multithreading
- B. Bus speed
- C. L3 cache
- D. Instructions per cycle

**Correct Answer:** D

**Section:** (none)

**Explanation****Explanation/Reference:**

Reference: <https://cloud.google.com/architecture/resource-mappings-from-on-premises-hardware-to-gcp>

**QUESTION 47**

A systems administrator is building a new visualization cluster. The cluster consists of five virtual hosts, which each have flash and spinning disks. This storage is shared among all the virtual hosts, where a virtual machine running on one host may store data on another host. This is an example of:

- A. a storage area network.
- B. a network file system.
- C. hyperconverged storage.
- D. thick-provisioned disks.

**Correct Answer:** A

**Section:** (none)

**Explanation****Explanation/Reference:**

Reference: <https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.msocs.doc/GUID-98957D02-BBAF-4233-ADF3-89805E94CB88.html>

**QUESTION 48**

A VDI administrator has received reports of poor application performance. Which of the following should the administrator troubleshoot FIRST?

- A. The network environment
- B. Container resources
- C. Client devices
- D. Server resources

**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:****QUESTION 49**

A company has developed a cloud-ready application. Before deployment, an administrator needs to select a deployment technology that provides a high level of portability and is lightweight in terms of footprint and resource requirements. Which of the following solutions will be BEST to help the administrator achieve the requirements?

- A. Containers
- B. Infrastructure as a code
- C. Desktop virtualization
- D. Virtual machines

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.researchgate.net/publication/322201610\\_An\\_Availability\\_Analysis\\_Approach\\_for\\_Deployment\\_Configurations\\_of\\_Containers](https://www.researchgate.net/publication/322201610_An_Availability_Analysis_Approach_for_Deployment_Configurations_of_Containers)

**QUESTION 50**

A systems administrator is deploying a VM and would like to minimize storage utilization by ensuring the VM uses only the storage if needs. Which of the following will BEST achieve this goal?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-4C0F4D73-82F2-4B81-8AA7-1DD752A8A5AC.html](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-4C0F4D73-82F2-4B81-8AA7-1DD752A8A5AC.html)

**QUESTION 51**

An organization requires the following to be achieved between the finance and marketing departments:

- Allow HTTPS/HTTP.
- Disable FTP and SMB traffic.

Which of the following is the MOST suitable method to meet the requirements?

- A. Implement an ADC solution to load balance the VLAN traffic.
- B. Configure an ACL between the VLANs.
- C. Implement 802.1X in these VLANs.
- D. Configure on-demand routing between the VLANs.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 52**

A company wants to check its infrastructure and application for security issues regularly. Which of the following should the company implement?

- A. Performance testing
- B. Penetration testing
- C. Vulnerability testing
- D. Regression testing

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 53**

A systems administrator is analyzing a report of slow performance in a cloud application. This application is working behind a network load balancer with two VMs, and each VM has its own digital certificate configured. Currently, each VM is consuming 85% CPU on average. Due to cost restrictions, the administrator cannot scale vertically or horizontally in the environment. Which of the following actions should the administrator take to decrease the CPU utilization? (Choose two.)

- A. Configure the communication between the load balancer and the VMs to use a VPN.
- B. Move the digital certificate to the load balancer.
- C. Configure the communication between the load balancer and the VMs to use HTTP.
- D. Reissue digital certificates on the VMs.
- E. Configure the communication between the load balancer and the VMs to use HTTPS.
- F. Keep the digital certificates on the VMs.

**Correct Answer:** BE

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 54**

A private IaaS administrator is receiving reports that all newly provisioned Linux VMs are running an earlier version of the OS than they should be. The administrator reviews the automation scripts to troubleshoot the issue and determines the scripts ran successfully. Which of the following is the MOST likely cause of the issue?

- A. API version incompatibility
- B. Misconfigured script account
- C. Wrong template selection
- D. Incorrect provisioning script indentation

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 55**

A cloud administrator is reviewing a new application implementation document. The administrator needs to make sure all the known bugs and fixes are applied, and unwanted ports and services are disabled. Which of the following techniques would BEST help the administrator assess these business requirements?

- A. Performance testing
- B. Usability testing
- C. Vulnerability testing
- D. Regression testing

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 56**

A DevOps administrator is automating an existing software development workflow. The administrator wants to ensure that prior to any new code going into production, tests confirm the new code does not negatively impact existing automation activities. Which of the following testing techniques would be BEST to use?

- A. Usability testing
- B. Regression testing
- C. Vulnerability testing
- D. Penetration testing

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.guru99.com/regression-testing.html>

**QUESTION 57**

Some VMs that are hosted on a dedicated host server have each been allocated with 32GB of memory. Some of VMs are not utilizing more than 30% of the allocation. Which of the following should be enabled to optimize the memory utilization?

- A. Auto-scaling of compute
- B. Oversubscription
- C. Dynamic memory allocations on guests
- D. Affinity rules in the hypervisor

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

A systems administrator would like to reduce the network delay between two servers. Which of the following will reduce the network delay without taxing other system resources?

- A. Decrease the MTU size on both servers.
- B. Adjust the CPU resources on both servers.
- C. Enable compression between the servers.
- D. Configure a VPN tunnel between the servers.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

An SQL injection vulnerability was reported on a web application, and the cloud platform team needs to mitigate the vulnerability while it is corrected by the development team. Which of the following controls will BEST mitigate the risk of exploitation?

- A. DLP
- B. HIDS
- C. NAC
- D. WAF

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netsparker.com/blog/web-security/sql-injection-vulnerability/>

**QUESTION 60**

To save on licensing costs, the on-premises, IaaS-hosted databases need to be migrated to a public DBaaS solution. Which of the following would be the BEST technique?

- A. Live migration
- B. Physical-to-virtual
- C. Storage-level mirroring
- D. Database replication

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 61**

A systems administrator swapped a failed hard drive on a server with a RAID 5 array. During the RAID resynchronization, a second hard drive failed. Which of the following actions will make the server fully operational?

- A. Restart the RAID resynchronization process.
- B. Perform a P2V migration of the server.
- C. Swap the failed hard drive with a fresh one.
- D. Restore the server from backup.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

A cloud administrator recently deployed an update to the network drivers of several servers. Following the update, one of the servers no longer responds to remote login requests. The cloud administrator investigates the issue and gathers the following information:

- The cloud management console shows the VM is running and the CPU and memory utilization is at or near 0%.
- The cloud management console does not show an IP address for that server.
- A DNS lookup shows the hostname resolves to an IP address.
- The server is a member of the same security group as the others.
- The cloud administrator is able to log in remotely to the other servers without issue.

Which of the following is the MOST likely cause of the server being unavailable?

- A. The network driver updates did not apply successfully, and the interface is in a down state.
- B. The ACL policy for the server was updated as part of the server reboot, preventing login access.
- C. The server was assigned a new IP address, and DNS entry for the server name was not updated.
- D. The update caused an increase in the output to the logs, and the server is too busy to respond.



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

A company is planning to migrate applications to a public cloud, and the Chief Information Officer (CIO) would like to know the cost per business unit for the applications in the cloud. Before the migration, which of the following should the administrator implement FIRST to assist with reporting the cost for each business unit?

- A. An SLA report
- B. Tagging
- C. Quotas
- D. Showback

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.linkedin.com/pulse/cloud-showback-critical-piece-enterprise-governance-how-gowda/>

**QUESTION 64**

A cloud administrator would like to deploy a cloud solution to its provider using automation techniques. Which of the following must be used? (Choose two.)

- A. Auto-scaling
- B. Tagging

- C. Playbook
- D. Templates
- E. Containers
- F. Serverless

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 65

A systems administrator needs to configure monitoring for a private cloud environment. The administrator has decided to use SNMP for this task. Which of the following ports should the administrator open on the monitoring server's firewall?

- A. 53
- B. 123
- C. 139
- D. 161

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.oracle.com/en/engineered-systems/private-cloud-appliance/2.4/admin-2.4.1/admin-troubleshooting-snmp.html>

#### QUESTION 66

A cloud administrator is switching hosting companies and using the same script that was previously used to deploy VMs in the new cloud. The script is returning errors that the command was not found. Which of the following is the MOST likely cause of the script failure?

- A. Account mismatches
- B. IP address changes
- C. API version incompatibility
- D. Server name changes

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 67

A systems administrator is configuring network management but is concerned about confidentiality. Which of the following should the administrator configure to address this concern?

- A. SNMPv3
- B. Community strings
- C. IPSec tunnels
- D. ACLs

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 68

Which of the following will provide a systems administrator with the MOST information about potential attacks on a cloud IaaS instance?

- A. Network flows
- B. FIM

- C. Software firewall
- D. HIDS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 69

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

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

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 70

An organization is hosting a cloud-based web server infrastructure that provides web-hosting solutions. Sudden continuous bursts of traffic have caused the web servers to saturate CPU and network utilizations. Which of the following should be implemented to prevent such disruptive traffic from reaching the web servers?

- A. Solutions to perform NAC and DLP
- B. DDoS protection
- C. QoS on the network
- D. A solution to achieve microsegmentation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 71

A systems administrator needs to configure a set of policies to protect the data to comply with mandatory regulations. Which of the following should the administrator implement to ensure DLP efficiency prevents the exposure of sensitive data in a cloud environment?

- A. Integrity
- B. Versioning
- C. Classification
- D. Segmentation

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 72

Users of an enterprise application, which is configured to use SSO, are experiencing slow connection times. Which of the following should be done to troubleshoot the issue?



- A.
  - Perform a memory dump of the OS.
  - Analyze the memory dump.
  - Upgrade the host CPU to a higher clock speed CPU.
- B.
  - Perform a packet capture during authentication.
  - Validate the load-balancing configuration.
  - Analyze the network throughput of the load balancer.
- C.
  - Analyze the storage system IOPS.
  - Increase the storage system capacity.
  - Replace the storage system disks to SSD.
- D.
  - Evaluate the OS ACLs.
  - Upgrade the router firmware.
  - Increase the memory of the router.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 73

A systems administrator recently upgraded the processors in a web application host. Upon the next login, the administrator sees a new alert regarding the license being out of compliance. Which of the following licensing models is the application MOST likely using?

- A. Per device
- B. Per user
- C. Core-based
- D. Volume-based

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 74

A company is currently running a website on site. However, because of a business requirement to reduce current RTO from 12 hours to one hour, and the RPO from one day to eight hours, the company is considering operating in a hybrid environment. The website uses mostly static files and a small relational database. Which of the following should the cloud architect implement to achieve the objective at the LOWEST cost possible?

- A. Implement a load-balanced environment in the cloud that is equivalent to the current on-premises setup and use DNS to shift the load from on premises to cloud.
- B. Implement backups to cloud storage and infrastructure as code to provision the environment automatically when the on-premises site is down. Restore the data from the backups.
- C. Implement a website replica in the cloud with auto-scaling using the smallest possible footprint. Use DNS to shift the load from on premises to the cloud.
- D. Implement a CDN that caches all requests with a higher TTL and deploy the IaaS instances manually in case of disaster. Upload the backup on demand to the cloud to restore on the new instances.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 75

After analyzing a web server's log, a systems administrator sees that users are connecting to the company's application through HTTP instead of HTTPS. The administrator then configures a redirect from HTTP to HTTPS on the web server, and the application responds with a connection time-out message. Which of the following should the administrator verify NEXT?

- A. The TLS certificate
- B. The firewall rules
- C. The concurrent connection limit
- D. The folder permissions

**Correct Answer:** A

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 76**

A company needs to access the cloud administration console using its corporate identity. Which of the following actions would MOST likely meet the requirements?

- A. Implement SSH key-based authentication.
- B. Implement cloud authentication with local LDAP.
- C. Implement multifactor authentication.
- D. Implement client-based certificate authentication.

**Correct Answer: D**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 77**

A cloud administrator is planning to migrate a globally accessed application to the cloud. Which of the following should the cloud administrator implement to BEST reduce latency for all users?

- A. Regions
- B. Auto-scaling
- C. Clustering
- D. Cloud bursting

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 78**

A company needs a solution to find content in images. Which of the following technologies, when used in conjunction with cloud services, would facilitate the BEST solution?

- A. Internet of Things
- B. Digital transformation
- C. Artificial intelligence
- D. DNS over TLS

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 79**

An organization is developing a new solution for hosting an external website. The systems administrator needs the ability to manage the OS. Which of the following methods would be MOST suitable to achieve this objective?

- A. Deploy web servers into an IaaS provider.
- B. Implement a cloud-based VDI solution.
- C. Provision web servers in a container environment.
- D. Use PaaS components in the cloud to implement the product.

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:**

**QUESTION 80**

A systems administrator is provisioning VMs in a cloud environment and has been told to select an OS build with the furthest end-of-life date. Which of the following OS builds would be BEST for the systems administrator to use?

- A. Open-source
- B. LTS
- C. Canary
- D. Beta
- E. Stable

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

