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**QUESTION 1**
A cloud engineer wants to implement a monitoring solution to detect cryptojacking and other cryptomining malware on cloud instances. Which of the following metrics would most likely be used to identify the activity?

A.  Disk I/O
B.  Network packets
C.  Average memory utilization
D.  Percent of CPU utilization

**Answer:** D
**Explanation:**
To detect cryptojacking and other cryptomining malware on cloud instances, monitoring the percent of CPU utilization is most effective. Cryptomining malware typically consumes a significant amount of CPU resources for mining operations, leading to unusually high CPU usage. Monitoring and analyzing CPU utilization metrics can help identify instances of cryptojacking by highlighting abnormal levels of resource consumption.

**QUESTION 2**
A developer is testing code that will be used to deploy a web farm in a public cloud. The main code block is a function to create a load balancer and a loop to create 1.000 web servers, as shown below:

```
my_load_balancer()
for x in range(1000):
    my_web_server()
```

The developer runs the code against the company's cloud account and observes that the load balancer is successfully created, but only 100 web servers have been created. Which of the following should the developer do to fix this issue?

A.  Request an increase of Instance quota.
B.  Run the code multiple times until all servers are created.
C.  Check the my_web_server () function to ensure it is using the right credentials.
D.  Place the my_load_balancer () function after the loop.

**Answer:** A
**Explanation:**
The developer should request an increase of the instance quota from the cloud provider. Cloud services often have a limit on the number of instances that can be created, which is known as an instance quota. If the load balancer is successfully created but the number of web servers is limited to 100, it suggests that the quota has been reached. Increasing the quota will allow the creation of additional web server instances up to the desired number.

**QUESTION 3**
A cloud networking engineer is troubleshooting the corporate office's network configuration. Employees in the IT and operations departments are unable to resolve IP addresses on all devices, and the IT department cannot establish a connection to other departments' subnets. The engineer identifies the following configuration currently in place to support the office network:

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

Each employee needs to connect to the network with a maximum of three hosts. Each subnet must be segregated, but the IT department must have the ability to communicate with all subnets. Which of the following meet the IP addressing and routing requirements? (Choose two.)

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

**Answer:** DF
**Explanation:**
To meet the requirements of allowing the IT department to communicate with all subnets while keeping each department segregated and ensuring a maximum of three hosts per employee, two actions are required. First, configuring static routing from the IT subnet (10.1.30.1) to each of the other subnets would establish the necessary connectivity. Second, modifying the subnet mask to 255.255.255.128 for the IT and operations departments would provide the needed number of host addresses while maintaining subnet segregation.

**QUESTION 4**
A cloud developer is creating a static website that customers will be accessing globally. Which of the following services will help reduce latency?

A. VPC
B. Application load balancer
C. CDN
D. API gateway

**Answer:** C
**Explanation:**
A Content Delivery Network (CDN) is the service that will help reduce latency for a static website accessed globally. CDNs distribute content across multiple geographically dispersed servers, allowing users to connect to a server that is closer to them, thereby reducing the time it takes to load the website.

**QUESTION 5**
An administrator needs to adhere to the following requirements when moving a customer's data to the cloud:

- The new service must be geographically dispersed.
- The customer should have local access to data
- Legacy applications should be accessible.

Which of the following cloud deployment models is most suitable?

A. On-premises
B. Private
C. Hybrid
D. Public

**Answer:** C
**Explanation:**
A hybrid cloud deployment model is most suitable given the requirements. This model combines on-premises infrastructure (or private cloud) with public cloud services, providing geographic dispersion while allowing local access to data. It also facilitates the use of legacy applications that might not be well-suited for a full public cloud environment.

## QUESTION 6
A technician receives an email from a vendor who is requesting payment of an invoice for human resources services. The email contains a request for bank account numbers. Which of the following types of attacks does this behavior most likely indicate?

A. Malware
B. Cryptojacking
C. Ransomware
D. Phishing

**Answer:** D
**Explanation:**
The behavior described in the question indicates a phishing attack. Phishing typically involves an attacker masquerading as a legitimate entity to trick individuals into providing sensitive information, such as bank account numbers, through seemingly trustworthy communication channels like email.

## QUESTION 7
Which of the following best explains the concept of migrating from on premises to the cloud?

A. The configuration of a dedicated pipeline to transfer content to a remote location
B. The creation of virtual instances in an external provider to transfer operations of selected servers into a new. remotely managed environment
C. The physical transportation, installation, and configuration of company IT equipment in a cloud services provider's facility
D. The extension of company IT infrastructure to a managed service provider

**Answer:** B
**Explanation:**
Migrating from on-premises to the cloud generally involves creating virtual instances in an external provider's environment and transferring the operations of selected servers to this new, remotely managed setup. This process allows organizations to leverage the cloud provider's resources and services.

**QUESTION 8**
Which of the following service options would provide the best availability for critical applications in the event of a disaster?

A. Edge computing
B. Cloud bursting
C. Availability zones
D. Multicloud tenancy

**Answer:** C
**Explanation:**
Availability zones provide the best availability for critical applications in the event of a disaster. They are distinct locations within a cloud region that are engineered to be isolated from failures in other availability zones, thus providing redundancy and failover capabilities, which is essential for maintaining high availability of critical applications.

**QUESTION 9**
A newly configured VM fails to run application updates despite having internet access. The updates download automatically from a third-party network. Given the following output:

```
$dig +short apac.updateserver.net
38.102.218.7
$dig +short na.updateserver.net
request timeout
```

Which of the following troubleshooting steps would be best to take?

A. Checking DNS configurations
B. Reconfiguring routing protocols
C. Testing the IP address configuration
D. Running a trace to the router

**Answer:** A
**Explanation:**
The best troubleshooting step to take given the output is to check DNS configurations. The failure to resolve the "na.updateserver.net" domain suggests a DNS resolution issue, which could be due to incorrect DNS settings, a failure in the DNS service, or an issue with the DNS server itself.

**QUESTION 10**
A company migrated its CRM system to a SaaS solution. The security team is updating the RAG matrix for the newly migrated CRM. Given the following table:

|  | Data-center security | CRM software security | CRM server patching | CRM development life cycle |
|---|---|---|---|---|
| Customer | C,I | I | A, I | A,C,I |
| CSP | R,A | R,A,C | R,C | R |

Which of the following responsibility assignments best aligns with the shared responsibility model for the new CRM?

A. Data-center security
B. CRM software security
C. CRM server patching
D. CRM development life cycle

**Answer:** A
**Explanation:**
For the newly migrated SaaS CRM, the responsibility assignment that best aligns with the shared responsibility model is data-center security. In a SaaS model, the cloud service provider (CSP) is responsible for the security of the infrastructure, including data centers, while the customer is typically responsible for the data and possibly the user access management.

**QUESTION 11**
A social networking company operates globally. Some users from Brazil and Argentina are reporting the following error: website address was not found. Which of the following is the most likely cause of this outage?

A. Client DNS misconfigutation
B. Regional DNS provider outage
C. DNS server misconfiguration
D. DNS propagation issues

**Answer:** B
**Explanation:**
The most likely cause of the outage, with users from specific regions like Brazil and Argentina reporting an error that the website address was not found, is a regional DNS provider outage. This type of outage would affect users in particular areas, preventing domain name resolution and leading to the reported error.

**QUESTION 12**
A cloud engineer is designing a cloud-native, three-tier application. The engineer must adhere to the following security best practices:

```
- Minimal services should run on all layers of the stack.
- The solution should be vendor agnostic.
- Virealization could be used over physical hardware.
```

Which of the following concepts should the engineer use to design the system to best meet these requirements?

A. Virtual machine
B. Micro services
C. Fan-out
D. Cloud-provided managed services

**Answer:** B
**Explanation:**
Microservices architecture is the most suitable design principle that aligns with the security best practices mentioned. It involves developing a suite of small services, each running in its own process and communicating with lightweight mechanisms, often an HTTP resource API. This architecture minimizes the services running on each layer, allows for vendor-agnostic solutions, and is well-suited for virtualization over physical hardware.

**QUESTION 13**
A high-usage cloud resource needs to be monitored in real time on specific events to guarantee its availability. Which of the following actions should be used to meet this requirement?

A. Configure a ping command to identify when the cloud instance is out of service.
B. Create a dashboard with visualizations to filter the status of critical activities.
C. Collect all the daily activity from the cloud instance and create a dump file for analysis.
D. Schedule an hourly scan of the network to check for the availability of the resource.

**Answer:** B
**Explanation:**
To guarantee real-time monitoring of a high-usage cloud resource, creating a dashboard with visualizations to filter the status of critical activities is effective. This allows for a quick visual assessment of the system's health and performance, enabling immediate action if specific events indicate potential issues with availability.

**QUESTION 14**
A junior cloud administrator was recently promoted to cloud administrator and has been added to the cloud administrator group. The cloud administrator group is the only one that can access the engineering VM. The new administrator unsuccessfully attempts to access the engineering VM. However, the other administrators can access it without issue. Which of the following is the best way to identify the root cause?

A. Rebooting the engineering VM
B. Reviewing the administrator's permissions to access the engineering VM
C. Allowing connections from 0.0.0.070 to the engineering VM
D. Performing a packet capture on the engineering VM

**Answer:** B
**Explanation:**
The best way to identify the root cause of why the new cloud administrator cannot access the engineering VM is by reviewing the administrator's permissions. It is possible that, despite being added to the cloud administrator group, the specific permissions to access the engineering VM were not properly configured.

**QUESTION 15**
A cloud solutions architect is designing a VM-based solution that requires reducing the cost as much as possible. Which of the following solutions will best satisfy this requirement?

A.  Using ephemeral storage on replicated VMs
B.  Creating Spot VMs in one availability zone
C.  Spreading the VMs across different regions
D.  Using provisioned IOPS storage

**Answer:** B
**Explanation:**
Using Spot VMs is a cost-effective solution as these are available at significantly reduced prices compared to standard instances. Spot VMs are ideal for workloads that can tolerate interruptions and are a way to take advantage of unused cloud capacity.

**QUESTION 16**
A critical security patch is required on a network load balancer in a public cloud. The organization has a major sales conference next week, and the Chief Executive Officer does not want any interruptions during the demonstration of an application behind the load balancer. Which of the following approaches should the cloud security engineer take?

A.  Ask the management team to delay the conference.
B.  Apply the security patch after the event.
C.  Ask the upper management team to approve an emergency patch window.
D.  Apply the security patch immediately before the conference.

**Answer:** C
**Explanation:**
Given the critical nature of the patch and the upcoming major sales conference, the cloud security engineer should seek approval for an emergency patch window. This approach balances the need for security with the business requirement of no interruptions during the conference.

**QUESTION 17**
A cloud engineer has provisioned a VM for a high-frequency trading application. After the VM is put into production, users report high latency in trades. The engineer checks the last six hours of VM metrics and sees the following:

```
- CPU utilization is between 30% to 60%.
- NetworkIn is between 50Kbps and 70Kbps.
- NetworkOut is between 3.000Kpbs and 5.000Kbps.
- DiskReadOps is at 30.
- DiskWriteOps is at 70
- Memory utilization is between 50% and 70%.
```

Which of the following steps should the engineer take next to solve the latency issue?

A.  Move to a network-optimized instance type as the network throughput is not enough.
B.  Modify the disk IOPS to a higher value as the disk IO is being bottlenecked at 100 IOPS.
C.  Increase the memory of the instance as the high-frequency trading application requires more RAM.
D.  Increase the instance size to allocate more vCPUs as the CPU utilization is very high.

**Answer:** A
**Explanation:**
Since the NetworkOut is significantly higher than NetworkIn and considering the nature of a high-

frequency trading application, the issue most likely lies with network throughput. Moving to a network-optimized instance type would provide higher network bandwidth, which can reduce latency in trades.

**QUESTION 18**
A cloud engineer was deploying the company's payment processing application, but it failed with the following error log:

```
ERFOR:root: Transaction failed http 429 response, please try again
```

Which of the following are the most likely causes for this error? (Choose two.)

A. API throttling
B. API gateway outage
C. Web server outage
D. Oversubscription
E. Unauthorized access
F. Insufficient quota

**Answer:** AF
**Explanation:**
The error "http 429 response, please try again" typically indicates API throttling, where the number of requests exceeds the rate limit set by the API provider, and insufficient quota, where the allowed number of API calls within a given timeframe has been exceeded.

**QUESTION 19**
An organization's web application experiences penodic bursts of traffic when a new video is launched. Users are reporting poor performance in the middle of the month. Which of the following scaling approaches should the organization use to scale based on forecasted traffic?

A. Scheduled
B. Manual
C. Event
D. Load

**Answer:** A
**Explanation:**
For periodic bursts of traffic that are predictable, such as when a new video is launched, a scheduled scaling approach is suitable. This strategy involves scaling resources based on forecasted or known traffic patterns, ensuring that the infrastructure can handle the load during expected peak times.

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