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NEW QUESTION: 1

A company wants to create a few additional VDIs so support vendors and contractors have a secure method to access the company's cloud environment. When a cloud administrator attempts to create the additional instances in the new locations, the operation is successful in some locations but fails in others. Which of the following is the most likely reason for this failure?

- A. Partial service outages
- B. Regional service availability
- C. Service quotas
- D. Deprecation of functionality

Answer: C (LEAVE A REPLY)

If a cloud administrator can create additional instances in some locations but not others, the most likely reason for this failure is service quotas. Cloud providers often have quotas on the number of resources that can be created, and these limits can vary by region.

NEW QUESTION: 2

A cloud service provider just launched a new serverless service that is compliant with all security regulations. A company deployed its code using the service, and the company's application was hacked due to leaked credentials. Which of the following is responsible?

- A. Customer
- B. Cloud service provider
- C. Hacker
- D. Code repository

Answer: A (LEAVE A REPLY)

Customer: Under the shared responsibility model, customers are responsible for securing their code and credentials in cloud environments.

NEW QUESTION: 3

A cloud solutions architect needs to design a solution that will collect a report and upload it to an object storage service every time a virtual machine is gracefully or non-gracefully stopped. Which of the following will best satisfy this requirement?

- A. An event-driven architecture that will send a message when the VM shuts down to a log-collecting function that extracts and uploads the log directly from the storage volume
- B. Creating a webhook that will trigger on VM shutdown API calls and upload the requested files from the volume attached to the VM into the object-defined storage service

- C. An API of the object-defined storage service that will scrape the stopped VM disk and self-upload the required files as objects
- D. A script embedded on the stopping VM's OS that will upload the logs on system shutdown

Answer: ([SHOW ANSWER](#))

An event-driven architecture is suited for this scenario, where an event (like a VM shutdown) triggers a function to execute specific tasks (log collection and upload). This approach is efficient and ensures that the logs are collected and uploaded to an object storage service every time the VM is stopped, regardless of whether it is a graceful or non-graceful shutdown.

NEW QUESTION: 4

A project manager is assigned to a project that has contracted with vendors. Which of the following actions should the project manager most frequently take? (Select two).

- A. Update the issue log
- B. Create a project charter
- C. Validate the status report
- D. Monitor performance
- E. Approve deliverables
- F. Baseline the project schedule

Answer: ([SHOW ANSWER](#))

When managing vendor contracts, the PM must validate vendor status reports to confirm progress and monitor vendor performance against agreed service levels. Approving deliverables occurs less frequently, and creating charters/baselining schedules are initiation tasks, not recurring vendor management tasks.

NEW QUESTION: 5

A cloud engineer is developing an operating expense report that will be used to purchase various cloud billing models for virtual machine instances. The cloud billing model must meet the following requirements:

- The instance cannot be ephemeral.
- The minimum life cycle of the instance is expected to be five years.
- The software license is charged per physical CPU count.

Which of the following best meets these requirements?

- A. Dedicated host
- B. Spot instance
- C. Pay-as-you-go
- D. Resource metering

Answer: ([SHOW ANSWER](#))

A dedicated host provides a physical server reserved for a single customer, ensuring long-term use (non-ephemeral), supports software licenses tied to physical CPUs, and is ideal for workloads with a long life cycle such as five years.

NEW QUESTION: 6

During a phase review, two stakeholders discuss the approval of a deliverable. The project manager convinces the stakeholders to agree on a common solution. Which of the following best describes what the project manager did to gain approval from both stakeholders?

- A. Force
- B. Smooth
- C. Compromise
- D. Avoid

Answer: ([SHOW ANSWER](#))

By negotiating a middle ground, the PM used compromise as a conflict resolution technique.

Force and avoid do not build consensus, while smoothing minimizes issues but does not resolve them. Compromise achieves agreement acceptable to both sides.

NEW QUESTION: 7

Which of the following commands allows a developer to save changes in the remote repository?

- A. git push
- B. git fetch
- C. git pull
- D. git commit

Answer: (SHOW ANSWER)

git push uploads local repository changes to the remote repository, saving them so others can access the updated code.

NEW QUESTION: 8

A company recently adjusted its load-balancer encryption policies to support only TLSv1.3. Soon after the change was made, several customers began reporting they could not access their website. Which of the following is the MOST likely cause of the issue?

- A. The certificate is expired.
- B. There is a mismatch between the key and the certificate.
- C. The customers are using an unsupported OS.
- D. The load balancer was misconfigured.

Answer: C (LEAVE A REPLY)

TLSv1.3 is a newer version of the Transport Layer Security (TLS) protocol that is not supported by all operating systems. If the customers are using an unsupported OS, they will not be able to connect to the website because their browsers will not be able to negotiate a TLSv1.3 connection.

NEW QUESTION: 9

A highly scored negative risk causes a risk trigger, but the issue has not started yet. Which of the following is the next step the project team should take?

- A. Execute the contingency plan
- B. Perform a work-around
- C. Escalate to senior management
- D. Assign a risk owner

Answer: (SHOW ANSWER)

When a risk trigger is detected, the risk hasn't yet turned into an issue, but the conditions indicate it may happen. At this stage, the project team should execute the contingency plan that was pre-developed during risk planning. Assigning a risk owner happens earlier in the planning stage, and work-arounds are used only for unplanned risks. Escalation is only needed if the contingency cannot address the risk.

NEW QUESTION: 10

Which of the following interfaces is most commonly used for SSDs but not for HDDs?

- A. NVMe
- B. Serial-attached SCSI
- C. SATA
- D. iSCSI

Answer: A (LEAVE A REPLY)

NVMe (Non-Volatile Memory Express) is a high-speed storage interface designed specifically for SSDs. It utilizes the PCIe (Peripheral Component Interconnect Express) bus, providing significantly faster data transfer speeds and lower latency compared to traditional interfaces like SATA and SAS, which were originally designed for HDDs. Unlike HDDs, NVMe takes advantage of parallel processing capabilities, making it the preferred choice for modern SSDs.

NEW QUESTION: 11

A cloud administrator wants to have a central repository for all the logs in the company's private cloud. Which of the following should be implemented to BEST meet this requirement?

- A. SNMP
- B. Log scrubbing
- C. CMDB
- D. A syslog server

Answer: (SHOW ANSWER)

A syslog server is a centralized repository for logs from different devices and applications. It can be used to collect, store, and analyze logs from all the systems in the private cloud.

NEW QUESTION: 12

A cloud engineer proposes a solution to migrate a finance application to the cloud. The environment can be shared to reduce costs. Which of the following models would best meet this requirement?

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

Answer: (SHOW ANSWER)

A community cloud is shared among organizations with similar requirements, allowing cost reduction through resource sharing while maintaining some level of control and security.

NEW QUESTION: 13

A cloud architect is deploying a web application that contains many large images and will be accessed on two continents. Which of the following will MOST improve the user experience while keeping costs low?

- A. Implement web servers in both continents and set up a VPN between the VPCs.
- B. Implement web servers on both continents and peer the VPCs.
- C. Implement a CDN and offload the images to an object storage.
- D. Implement a replica of the entire solution on every continent.

Answer: (SHOW ANSWER)

A CDN (content delivery network) is a network of servers that are distributed around the world.

When a user requests a web page, the CDN will deliver the page from the server that is closest to the user. This can significantly improve the user experience by reducing the amount of time it takes to load the page.

Object storage is a type of storage that is designed to store large amounts of data. It is typically used for storing images, videos, and other media files. Offloading the images to object storage will free up space on the web servers, which can improve performance and reduce costs.

NEW QUESTION: 14

The company's IDS has reported an anomaly. The cloud engineer remotely accesses the cloud instance, runs a command, and receives the following information:

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UID	PID	PPID	CMD
0	987	1	sshd /usr/sbin/sshd -D [listener] 0 of 10-100 startups
0	915	915	sshd: su seceng
0	45078	987	sshd: seceng [priv]
1000	45418	45078	sshd: seceng @pts/0
1000	45419	45418	-bash
1000	45440	45419	ps -elf
0	50596	1	/usr/sbin/apache2 -k start
65535	50597	50596	/usr/sbin/apache2 -k start
0	50612	50597	/var/www/command.py

Which of the following is the most likely root cause of this anomaly?

- A. Privilege escalation
- B. Leaked credentials
- C. Cryptojacking
- D. Defaced website

Answer: ([SHOW ANSWER](#))

The output from the 'ps' command indicates there is a process running under the UID (User ID) of

0, which is the root user, and the command that was run is '/var/www/command.py'. Given that the normal Apache processes are running under their own UID (65535), this suggests that a command was executed with root privileges that typically should not have such high-level access.

This is a strong indicator of privilege escalation, where an unauthorized user or process gains elevated access to resources that are normally protected from an application or user.

NEW QUESTION: 15

Two CVEs are discovered on servers in the company's public cloud virtual network. The CVEs are listed as having an attack vector value of network and CVSS score of 9.0. Which of the following actions would be the best way to mitigate the vulnerabilities?

- A. Patching the operating systems
- B. Upgrading the operating systems to the latest beta
- C. Encrypting the operating system disks
- D. Disabling unnecessary open ports

Answer: ([SHOW ANSWER](#))

For vulnerabilities with a high CVSS score and a network attack vector, the most effective and direct mitigation action is to patch the operating systems. Patching addresses the specific vulnerabilities that have been identified and helps to secure the servers against the known exploits that could take advantage of these CVEs.

NEW QUESTION: 16

A user's assigned cloud credentials are locked, and the user is unable to access the project's application. The cloud administrator reviews the logs and notices several attempts to log in with the user's account were made to a different application after working hours. Which of the following is the best approach for the administrator to troubleshoot this issue?

- A. Create new credentials for the user and restrict access to the authorized application.
- B. Track the source of the log-in attempts and block the IP address of the source in the WAR
- C. Reset the user's account and implement a stronger lock-out policy.
- D. Install an IDS on the network to monitor suspicious activity

Answer: ([SHOW ANSWER](#))

The administrator should track the source of the log-in attempts and block the IP address in the Web Application Firewall (WAF). This will prevent further unauthorized attempts from that source.

It is also advisable to reset the user's account credentials as a precautionary measure.

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NEW QUESTION: 17

A cloud engineer is reviewing the following Dockerfile to deploy a Python web application:

```
FROM cgr.dev/chainguard/python:latest
WORKDIR /myapp
COPY main.py ./
ENTRYPOINT ["python", "/myapp/main.py"]
```

Which of the following changes should the engineer make to the file to improve container security?

- A. Add the instruction USER nonroot.
- B. Change the version from latest to 3.11.
- C. Remove the ENTRYPOINT instruction.
- D. Ensure myapp/main.py is owned by root.

Answer: (SHOW ANSWER)

Adding USER nonroot ensures that the application runs as a non-root user within the container, reducing the risk of privilege escalation and limiting the damage that could be done if the container is compromised. Running containers as root is generally discouraged for security reasons.

NEW QUESTION: 18

A cloud engineer needs to determine a scaling approach for a payroll-processing solution that runs on a biweekly basis. Given the complexity of the process, the deployment to each new VM takes about 25 minutes to get ready. Which of the following would be the best strategy?

- A. Horizontal
- B. Scheduled
- C. Trending
- D. Event

Answer: B (LEAVE A REPLY)

For a biweekly payroll-processing solution that takes a significant amount of time to deploy to each new VM, the best scaling strategy is Scheduled scaling. This strategy involves preparing new instances in advance of when they are needed based on a known schedule, which in this case is the biweekly payroll process. By scheduling the scaling actions in advance, the cloud engineer ensures that the resources are ready when needed without incurring extra costs for running them all the time.

NEW QUESTION: 19

A systems administrator is deploying a new cloud application and needs to provision cloud services with minimal effort. The administrator wants to reduce the tasks required for maintenance, such as OS patching, VM and volume provisioning, and autoscaling configurations.

Which of the following would be the BEST option to deploy the new application?

- A. A VM cluster
- B. Containers
- C. OS templates
- D. Serverless

Answer: ([SHOW ANSWER](#))

Serverless computing is a cloud computing model where the cloud provider takes care of the provisioning, scaling, and management of servers. This means that the systems administrator does not have to worry about any of the tasks required for maintenance, such as OS patching, VM and volume provisioning, and autoscaling configurations.

NEW QUESTION: 20

A vulnerability exists on a critical cloud server. The cloud administrator needs to resolve the issue with minimal interruptions. Which of the following should the administrator do next?

- A. Perform a patch installation during lunchtime.
- B. Run a vulnerability scan.
- C. Install major updates after business hours.
- D. Apply fixes in the testing environment.

Answer: D ([LEAVE A REPLY](#))

Applying fixes in the testing environment first allows the administrator to verify the patch's effectiveness and stability before deploying it to the critical server, minimizing interruptions.

NEW QUESTION: 21

An administrator used a script that worked in the past to create and tag five virtual machines. All of the virtual machines have been created; however, the administrator sees the following results:

```
{ tags: [ ] }
```

Which of the following is the most likely reason for this result?

- A. API throttling
- B. Service quotas
- C. Command deprecation
- D. Compatibility issues

Answer: ([SHOW ANSWER](#))

The most likely reason for the script creating virtual machines without tags, despite working in the past, is command deprecation. Cloud service providers update their APIs and CLI commands over time, and a previously used command to tag resources might no longer be valid.

NEW QUESTION: 22

Which of the following should be considered when using cloud-managed services?

- A. Compiling sources
- B. Patching the operating system
- C. Installing the service
- D. Configuring IAM

Answer: ([SHOW ANSWER](#))

When using cloud-managed services, the cloud provider handles infrastructure management, including installation, patching, and maintenance. However, Identity and Access Management (IAM) remains the responsibility of the user. Proper IAM configuration ensures that only authorized users and applications have the necessary permissions to access and interact with the managed service, enhancing security and compliance.

NEW QUESTION: 23

A software engineer at a cybersecurity company wants to access the cloud environment. Per company policy, the cloud environment should not be directly accessible via the internet. Which of the following options best describes how the software engineer can access the cloud resources?

- A. SSH
- B. Bastion host
- C. Token-based access
- D. Web portal

Answer: (SHOW ANSWER)

A bastion host is the best option described for accessing cloud resources without direct internet access. It acts as a secure gateway to access internal networks from external sources and is often used in conjunction with other security measures such as SSH for secure connections.

NEW QUESTION: 24

An organization has been using an old version of an Apache Log4j software component in its critical software application. Which of the following should the organization use to calculate the severity of the risk from using this component?

- A. CWE
- B. CVSS
- C. CWSS
- D. CVE

Answer: (SHOW ANSWER)

The Common Vulnerability Scoring System (CVSS) is what the organization should use to calculate the severity of the risk from using an old version of Apache Log4j software component. CVSS provides an open framework for communicating the characteristics and impacts of IT vulnerabilities.

NEW QUESTION: 25

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: (SHOW ANSWER)

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.

NEW QUESTION: 26

Users of a public website that is hosted on a cloud platform are receiving a message indicating the connection is not secure when landing on the website. The administrator has found that only a single protocol is opened to the service and accessed through the URL

https://www.comptiasite.com. Which of the following would MOST likely resolve the issue?

- A. Renewing the expired certificate
- B. Updating the web-server software
- C. Changing the crypto settings on the web server
- D. Upgrading the users' browser to the latest version

Answer: ([SHOW ANSWER](#))

When a website uses HTTPS, it uses a digital certificate to encrypt the connection between the user's browser and the website. This ensures that the user's data is safe from eavesdropping. If the certificate expires, the connection will no longer be secure and users will see a warning message.

NEW QUESTION: 27

A cloud administrator wants to provision a host with two VMs. The VMs require the following:

	Host	VM1	VM2
NIC	1Gbps	1Gbps	1Gbps
CPU	4	1	1
RAM	8	2	2
Storage (thin provisioned)	2TB	1.5TB	1.2TB
Storage utilization		22.5%	50%
Daily network traffic		1.2TB	200GB

After configuring the servers, the administrator notices that during certain hours of the day, the performance heavily degrades. Which of the following is the best explanation?

- A. The host requires additional physical CPUs.
- B. A higher number of processes occur at those times.
- C. The RAM on each VM is insufficient.
- D. The storage is overutilized.

Answer: ([SHOW ANSWER](#))

Given the provided table, the VMs have been allocated 2GB of RAM each, which may be insufficient for their workload, especially during peak hours which could lead to performance degradation. Insufficient RAM can cause the VMs to use swap space on disk, which is significantly slower and can lead to poor performance.

NEW QUESTION: 28

Which of the following storage resources provides higher availability and speed for currently used files?

- A. Warm/HDD
- B. Cold/SSD
- C. Hot/SSD
- D. Archive/HDD

Answer: ([SHOW ANSWER](#))

Hot storage using Solid State Drives (SSD) is designed for data that needs to be accessed frequently and quickly. SSDs provide faster access times compared to HDDs, making them suitable for high-availability and speed-critical files, such as those currently in use or requiring rapid access.

NEW QUESTION: 29

Which of the following costs would increase significantly for data transfer when comparing a multiregion to a single-region cloud platform design?

- A. Storage
- B. Power and cooling
- C. Network
- D. Compliance and regulation

Answer: ([SHOW ANSWER](#))

In a multiregion cloud design, data must often travel between regions, incurring inter-region transfer fees. This makes network costs significantly higher compared to a single-region design.

NEW QUESTION: 30

A cloud engineer is designing a high-performance computing cluster for proprietary software. The software requires low network latency and high throughput between cluster nodes. Which of the following would have the greatest impact on latency and throughput when designing the HPC infrastructure?

- A. Node placement
- B. Node size
- C. Node NIC
- D. Node OS

Answer: ([SHOW ANSWER](#))

Node placement is critical in high-performance computing (HPC) clusters where low network latency and high throughput are required. Proper placement of nodes within the network infrastructure, including proximity to each other and to key network components, can significantly reduce latency and increase throughput. Ensuring that nodes are physically close and well-connected can facilitate faster data transfer rates between them.

NEW QUESTION: 31

A systems administrator has finished installing monthly updates to servers in a cloud environment. The administrator notices certain portions of the playbooks are no longer functioning. Executing the playbook commands manually on a server does not work as well.

There are no other reports of issues. Which of the following is the MOST likely cause of this issue?

- A. Patching failure
- B. Deprecated features
- C. Job validation issues
- D. Change management failure
- E. Service overload

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 32

SIMULATION 6

The QA team is testing a newly implemented clinical trial management (CTM) SaaS application that uses a business intelligence application for reporting. The UAT users were instructed to use HTTP and HTTPS.

Refer to the application dataflow:

1A - The end user accesses the application through a web browser to enter and view clinical data.

2A - The CTM application server reads/writes data to/from the database server.

1B - The end user accesses the application through a web browser to run reports on clinical data.

2B - The CTM application server makes a SOAP call on a non-privileged port to the BI application server.

3B - The BI application server gets the data from the database server and presents it to the CTM application server.

When UAT users try to access the application using <https://ctm.app.com> or <http://ctm.app.com>, they get a message stating: "Browser cannot display the webpage." The QA team has raised a ticket to troubleshoot the issue.

INSTRUCTIONS

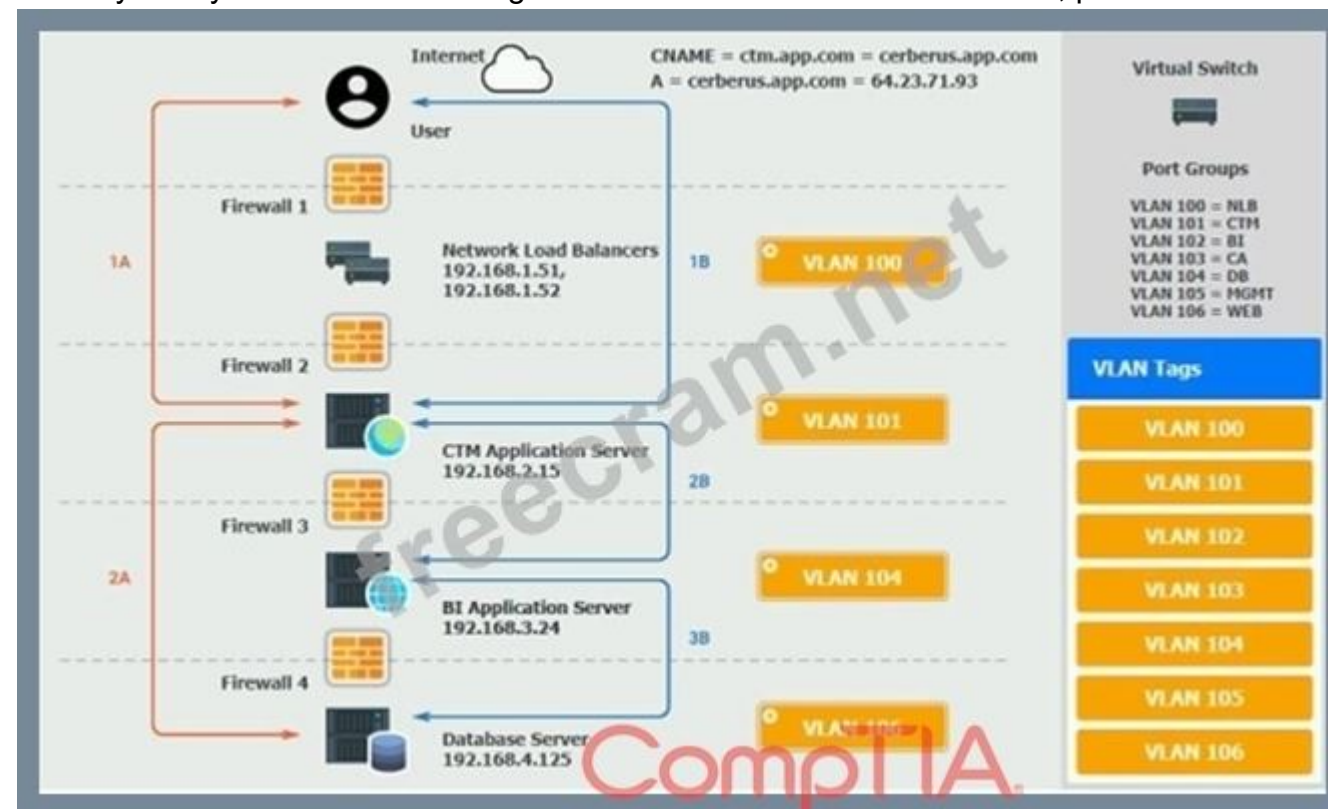
You are a cloud engineer who is tasked with reviewing the firewall rules as well as virtual network settings.

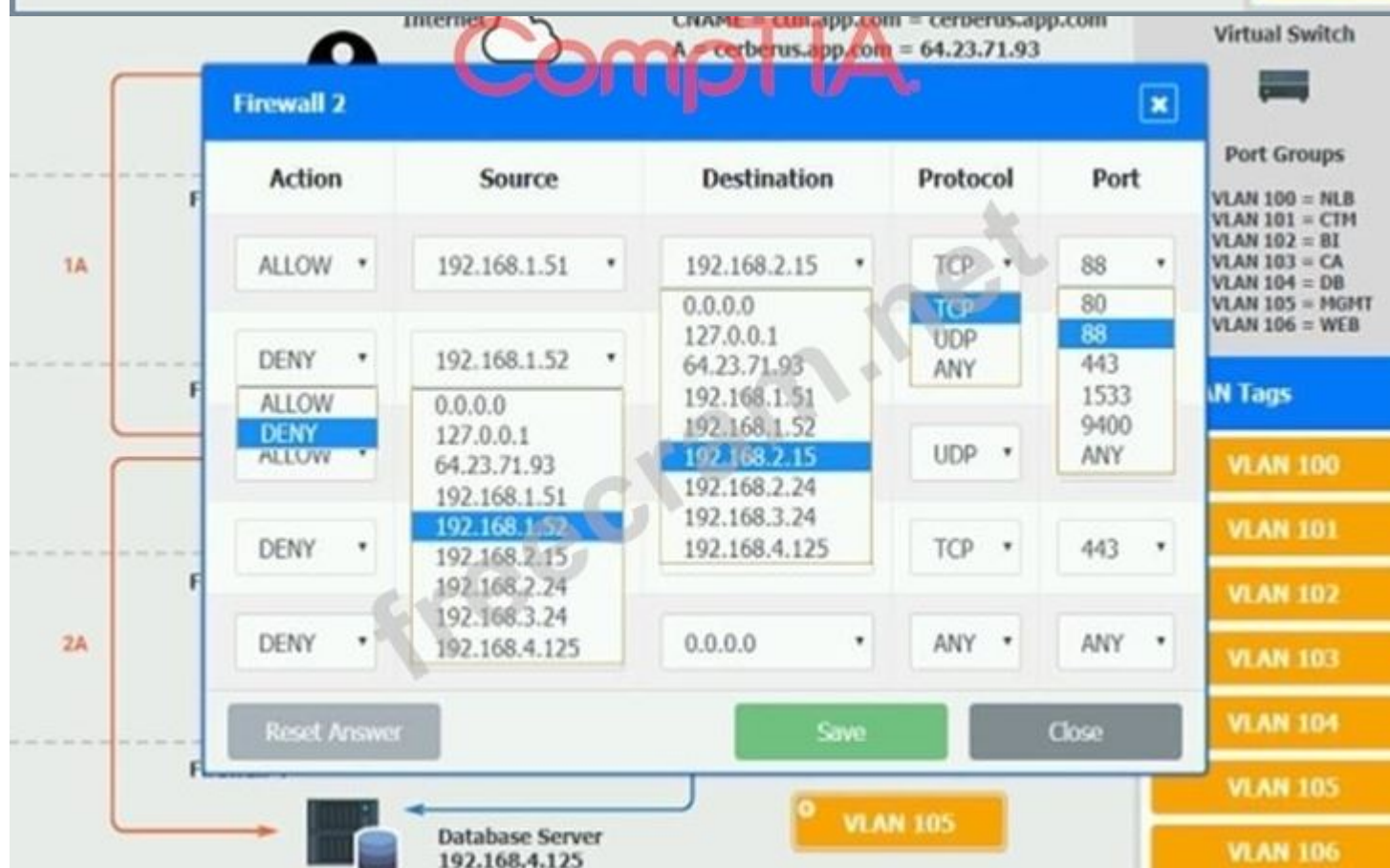
You should ensure the firewall rules are allowing only the traffic based on the dataflow.

You have already verified the external DNS resolution and NAT are working.

Verify and appropriately configure the VLAN assignments and ACLs. Drag and drop the appropriate VLANs to each tier from the VLAN Tags table. Click on each Firewall to change ACLs as needed.

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









Answer:

On firewall 3, change the DENY 0.0.0.0 entry to rule 3 not rule 1.

NEW QUESTION: 33

During a project kickoff meeting, the project manager wants to set expectations for all of the team members. Which of the following actions should the project manager take to accomplish this goal?

- A. Assign tasks and responsibilities to the team members
- B. Provide an overview of the project objectives and timeline
- C. Develop a project communication plan
- D. Set a meeting cadence for the rest of the project

Answer: (SHOW ANSWER)

The kickoff meeting is held at the beginning of a project to set direction and expectations. The most important activity is to review the project objectives and overall timeline so everyone understands the project's scope and goals. Detailed assignments and communication planning are handled afterward in the execution and planning phases.

NEW QUESTION: 34

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: ([SHOW ANSWER](#))

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.

NEW QUESTION: 35

A developer is deploying a new version of a containerized application. The DevOps team wants:

- No disruption
- No performance degradation
- Cost-effective deployment
- Minimal deployment time

Which of the following is the best deployment strategy given the requirements?

- A.** Canary
- B.** In-place
- C.** Blue-green
- D.** Rolling

Answer: ([SHOW ANSWER](#))

The blue-green deployment strategy is the best given the requirements for no disruption, no performance degradation, cost-effective deployment, and minimal deployment time. It involves maintaining two identical production environments (blue and green), where one hosts the current application version and the other is used to deploy the new version. Once testing on the green environment is complete, traffic is switched from blue to green, ensuring a seamless transition with no downtime.

NEW QUESTION: 36

Which of the following technologies can read the contents of a printed memo?

- A.** Document scanning
- B.** Sentiment analysis
- C.** Text recognition
- D.** Natural language processing

Answer: ([SHOW ANSWER](#))

Text recognition, commonly known as Optical Character Recognition (OCR), is the technology that can read and extract the contents of a printed memo by converting printed text into machine- readable data.

NEW QUESTION: 37

A company recently subscribed to a SaaS collaboration service for its business users. The company also has an on-premises collaboration solution and would like users to have a seamless experience regardless of the collaboration solution being used. Which of the following should the administrator implement?

- A.** LDAP
- B.** WAF
- C.** VDI
- D.** SSO

Answer: **D** ([LEAVE A REPLY](#))

Single sign-on (SSO) is a system that allows users to authenticate once and gain access to multiple applications without having to re-authenticate for each application. This can help to improve the user experience by making it easier and faster for users to access the applications that they need.

In this scenario, the company wants users to have a seamless experience regardless of the collaboration solution being used. SSO can help to achieve this by allowing users to authenticate once and gain access to both the SaaS collaboration service and the on-premises collaboration solution.

NEW QUESTION: 38

A cloud engineer is troubleshooting a connectivity issue. The application server with IP 192.168.1.10 in one subnet is not connecting to the MySQL database server with IP 192.168.2.20 in a different subnet. The cloud engineer reviews the following information:

Application Server Stateful Firewall

Inbound rules	Outbound rules
PERMIT ANY 443	PERMIT ANY 443
DENY ANY ANY	PERMIT ANY 3306
	PERMIT ANY 53
	DENY ANY ANY

Application Server Subnet Routing Table

Destination	Gateway
default	192.168.1.1
192.168.1.0/24	local

MySQL Server Stateful Firewall

Inbound rules	Outbound rules
PERMIT 192.168.1.10/32 3306	DENY ANY ANY
DENY ANY ANY	

MySQL Server Subnet Routing Table

Destination	Gateway
192.168.2.0/24	192.168.1.1
192.168.1.0/24	local

Which of the following should the cloud engineer address to fix the communication issue?

- A. The Application Server Stateful Firewall
- B. The Application Server Subnet Routing Table
- C. The MySQL Server Stateful Firewall
- D. The MySQL Server Subnet Routing Table

Answer: (SHOW ANSWER)

The connectivity issue between the application server and the MySQL database server in different subnets is likely due to the MySQL Server Stateful Firewall's inbound rules. The application server has an IP of 192.168.1.10, but the MySQL server's inbound rules only permit IP 192.168.1.10/32 on port 3306. This rule allows only a single IP address (192.168.1.10) to communicate on port 3306, which is typical for MySQL. However, if the application server's IP is not 192.168.1.10 or the application is trying to communicate on a different port, it would be blocked. To fix the communication issue, the cloud engineer should address the inbound rules on the MySQL Server Stateful Firewall to ensure that the application server's IP address and the required port are allowed.

NEW QUESTION: 39

Which of the following vulnerability management phases includes the process of discovering newly introduced security vulnerabilities?

- A. Scanning
- B. Identification
- C. Reporting
- D. Remediation

Answer: ([SHOW ANSWER](#))

Identification is the phase in vulnerability management where new vulnerabilities are discovered and documented. This phase involves continuous monitoring and identification of any new security vulnerabilities in the system or application.

NEW QUESTION: 40

A security engineer identifies a vulnerability in a containerized application. The vulnerability can be exploited by a privileged process to read the content of the host's memory. The security engineer reviews the following Dockerfile to determine a solution to mitigate similar exploits:

```
FROM alpine:3.17
RUN apk update && apk upgrade
COPY . /myapp
ENTRYPOINT [ "/myapp/app" ]
```

Which of the following is the best solution to prevent similar exploits by privileged processes?

- A. Adding the USER myappuser instruction
- B. Patching the host running the Docker daemon
- C. Changing FROM alpine:3.17 to FROM alpine:latest
- D. Running the container with the read-only filesystem configuration

Answer: A ([LEAVE A REPLY](#))

Adding the "USER myappuser" instruction to the Dockerfile is the best solution to prevent similar exploits by privileged processes. This instruction ensures that the container runs as a non-privileged user instead of the root user, significantly reducing the risk of privileged exploits.

Running containers with least privilege principles minimizes the potential impact of vulnerabilities, enhancing the overall security posture of the containerized environment.

NEW QUESTION: 41

The project manager must create a project charter. Which of the following should be included in the charter?

- A. Project schedule
- B. Resource allocation
- C. Risk plan
- D. Stakeholder identification

Answer: ([SHOW ANSWER](#))

The project charter is a high-level authorization document that outlines the purpose, objectives, and identifies key stakeholders. It does not contain detailed schedules, risk management plans, or resource allocation -- those come later in the planning process.

NEW QUESTION: 42

A cloud engineer is concerned about command-and-control (C2) communication out of a cloud network over HTTPS. Which of the following should the cloud engineer implement to most efficiently identify the type of communication?

- A. Inline IPS
- B. Traffic mirroring
- C. Hourly cron listing connections
- D. Cloud flow logs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 43

A cloud infrastructure administrator updated the IP tables to block incoming connections and outgoing responses to 104.225.110.203. Which of the following vulnerability management steps is this an example of?

- A. Scanning scope
- B. Remediation
- C. Identification
- D. Assessment

Answer: B ([LEAVE A REPLY](#))

Updating the IP tables to block connections to a specific IP address as a response to vulnerabilities is an example of remediation. Remediation involves taking direct action to fix vulnerabilities, such as by applying patches, changing configurations, or, in this case, updating firewall rules to block potentially harmful traffic.

NEW QUESTION: 44

An organization is preparing for seasonal sales on its storefront web application. Which of the following approaches is best suited to meet this requirement with the minimal cost?

- A. Configuring a load balancer with a least-connections load-balancing method
- B. Enabling a scaling configuration for the identified timeline
- C. Reconfiguring the application to have more resources
- D. Deploying additional compute resources in advance to the web application pool

Answer: ([SHOW ANSWER](#))

Configuring scaling for the seasonal sales period allows resources to automatically adjust to demand, ensuring performance while minimizing cost compared to permanently adding or pre-deploying extra resources.

NEW QUESTION: 45

A cloud engineer wants to run a script that increases the volume storage size if it is below 100GB.

Which of the following should the engineer run?

- ☐ A.

```
if [ VOL = describe_volume_size(get_volume(VM)) < 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ B.

```
if [ VOL = describe_volume_size(get_volume(VM)) + 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ C.

```
if [ VOL = describe_volume_size(get_volume(VM)) != 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ D.

```
if [ VOL = describe_volume_size(get_volume(VM)) == 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```

- A. A
B. B
C. C
D. D

Answer: (SHOW ANSWER)

The correct script is Option A, which uses a conditional test to check if the volume size is less than 100GB. If it is, then it performs a resize operation; otherwise, it outputs a message indicating the volume is already the desired size.

NEW QUESTION: 46

A company's engineering department is conducting a month-long test on the scalability of an in-house-developed software that requires a cluster of 100 or more servers. Which of the following models is the best to use?

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

Answer: (SHOW ANSWER)

For testing the scalability of an in-house-developed software that requires a cluster of 100 or more servers, Infrastructure as a Service (IaaS) is the best model. IaaS provides the necessary compute resources and allows the engineering department to configure the environment as needed for their specific test without the constraints that might be present in PaaS or SaaS offerings.

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NEW QUESTION: 47

Which of the following communication methods between on-premises and cloud environments would ensure minimal-to-low latency and overhead?

- A. Site-to-site VPN
- B. Peer-to-peer VPN
- C. Direct connection
- D. peering

Answer: ([SHOW ANSWER](#))

A direct connection between on-premises and cloud environments involves a dedicated, private connection that does not traverse the public internet. This setup ensures minimal-to-low latency and overhead, providing more consistent network performance and reliability compared to other methods like VPNs or public internet connections, making it suitable for high-volume or latency-sensitive applications.

NEW QUESTION: 48

Which of the following container storage types loses data after a restart?

- A. Object
- B. Persistent volume
- C. Ephemeral
- D. Block

Answer: ([SHOW ANSWER](#))

In the context of container storage, ephemeral storage types are designed to be temporary, losing their data when the container is restarted or deleted. This is in contrast to persistent volumes, which retain data across container restarts and lifecycle, and object and block storage, which are used for specific types of data storage but not inherently temporary. Ephemeral storage is often used for temporary computation data, caching, or any data that doesn't need to persist beyond the lifecycle of the container instance.

NEW QUESTION: 49

A security analyst confirms a zero-day vulnerability was exploited by hackers who gained access to confidential customer data and installed ransomware on the server Which of the following steps should the security analyst take? (Choose two.)

- A. Contact the customers to inform them about the data breach.
- B. Contact the hackers to negotiate payment to unlock the server.
- C. Send a global communication to inform all impacted users.
- D. Inform the management and legal teams about the data breach
- E. Delete confidential data used on other servers that might be compromised.
- F. Modify the firewall rules to block the IP addresses and update the ports.

Answer: ([SHOW ANSWER](#))

After a zero-day exploit resulting in a data breach and ransomware installation, it is critical to inform affected customers about the breach and the potential impact on their data. Additionally, the management and legal teams should be notified to handle the situation in compliance with regulatory requirements and to coordinate an appropriate response.

NEW QUESTION: 50

A cloud engineer is developing an operating expense report that will be used to purchase various cloud billing models for virtual machine instances. The cloud billing model must meet the following requirements:

- * The instance cannot be ephemeral.
- * The minimum life cycle of the instance is expected to be five years.
- * The software license is charged per physical CPU count.

Which of the following models would best meet these requirements?

- A. Dedicated host
- B. Spot instance
- C. Pay-as-you-go
- D. Reserved resources

Answer: ([SHOW ANSWER](#))

Reserved resources, or Reserved Instances, are ideal for workloads with predictable usage and a long-term commitment, such as a minimum lifecycle of five years. This model allows for significant cost savings compared to on-demand pricing, and the instance is not ephemeral, meaning it persists and is dedicated to the user for the duration of the reservation. The licensing charged per physical CPU count aligns with dedicated host or reserved instance models, but the long-term commitment points more towards reserved resources.

NEW QUESTION: 51

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 misconfiguration
- B. Regional DNS provider outage
- C. DNS server misconfiguration
- D. DNS propagation issues

Answer: ([SHOW ANSWER](#))

Since users from Brazil and Argentina are reporting that the website address was not found, it suggests a regional issue affecting users in a specific geographic area. This is most likely due to a regional DNS provider outage, which prevents DNS resolution for users in that region.

NEW QUESTION: 52

Which of the following is a customer be responsible for in a provider-managed database service?

(Choose two.)

- A. Operating system patches
- B. Table-level permissions
- C. Minor database engine updates
- D. Cluster configuration
- E. Row-level encryption
- F. Availability of hardware for scaling

Answer: ([SHOW ANSWER](#))

In a provider-managed database service, the cloud provider typically manages the infrastructure, operating system, and database engine updates. However, the customer is responsible for the data and its security within the database, which includes setting table-level permissions and row-level encryption to ensure that data access and security is managed appropriately.

NEW QUESTION: 53

An administrator configures three subnets to the corporate network. All servers should communicate with the main corporate network and access the internet. The administrator creates the following configurations:

Network	Subnet
Corporate Network	192.168.0.0/24
Network 2	192.168.10.0/24
Network 3	192.168.11.0/24
Network 4	192.168.12.0/24

Routing Table:

Source	Destination
192.168.10.0/24	192.168.0.0/24
192.168.11.0/24	192.168.0.0/24
192.168.12.0/24	192.168.1.0/24
192.168.13.0/24	192.168.1.0/24

After configuring the networks, the administrator recognizes an issue with the configuration.

Which of the following can the administrator change in one step to accomplish the goal?

- A. Replace destination 192.168.1.0/24 with destination 192.168.0.0/24.
- B. Add source 192.168.12.0/24 and destination 192.168.0.0/24 to the routing table.
- C. Remove source 192.168.12.0/24 and destination 192.168.1.0/24 from the routing table.
- D. Reconfigure Network 4 to 192.168.13.0/24.

Answer: (SHOW ANSWER)

NEW QUESTION: 54

Which of the following definitions of serverless computing BEST explains how it is different from using VMs?

- A. Serverless computing is a cloud-hosting service that utilizes infrastructure that is fully managed by the CSP.
- B. Serverless computing uses predictable billing and offers lower costs than VM compute services.
- C. Serverless computing is a scalable, highly available cloud service that uses SDN technologies.
- D. Serverless computing allows developers to focus on writing code and organizations to focus on business.

Answer: (SHOW ANSWER)

AWS offers technologies for running code, managing data, and integrating applications, all without managing servers. Serverless technologies feature automatic scaling, built-in high availability, and a pay-for-use billing model to increase agility and optimize costs. These technologies also eliminate infrastructure management tasks like capacity provisioning and patching, so you can focus on writing code that serves your customers.

NEW QUESTION: 55

Which of the following is a protocol frequently used with IoT devices to communicate with a gateway?

- A. ICMP
- B. MQTT
- C. RPC
- D. SSH

Answer: (SHOW ANSWER)

MQTT (Message Queuing Telemetry Transport) is a lightweight publish/subscribe protocol commonly used by IoT devices to communicate with gateways and cloud services due to its efficiency on low-bandwidth, high-latency networks.

NEW QUESTION: 56

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: D,F ([LEAVE A REPLY](#))

Configuring static routing to allow access from 10.1.30.1 to each subnet enables the IT department to communicate with all subnets, meeting the requirement for IT to have access across departments.

Modifying the subnet mask to 255.255.255.128 for the IT and operations departments reduces the available IP addresses per subnet, supporting a maximum of 126 hosts per subnet.

This meets the requirement for each employee to connect with up to three hosts while efficiently managing IP address allocation.

NEW QUESTION: 57

A cloud administrator is troubleshooting an issue in which clients receive errors when connecting to an application server. The initial investigation shows the following:

- The application is behind a load balancer.
- The load balancer logs show connections being denied.
- There are no security issues.
- There are no infrastructure issues on the application servers.
- All connected clients are working as expected.

Which of the following would most likely cause the issue?

- A. The application servers are running low on disk space.
- B. The load balancer is unable to connect to the application servers.
- C. The application is suffering from a memory leak.
- D. The service limit for the load balancer has been met.

Answer: ([SHOW ANSWER](#)**)**

Since the servers and security configurations are fine and existing client connections work, the problem lies with new connections being denied. This points to the load balancer reaching its connection or service limit, preventing additional clients from connecting.

NEW QUESTION: 58

Which of the following would allow a cloud engineer to flatten a deeply nested JSON log to improve readability for analysts?

- A. Grafana
- B. Kibana
- C. Elasticsearch
- D. Logstash

Answer: ([SHOW ANSWER](#))

Logstash can be used to flatten a deeply nested JSON log, which would improve readability for analysts. Logstash is a data processing pipeline that ingests data from various sources, transforms it, and then sends it to a "stash" like Elasticsearch.

NEW QUESTION: 59

A project team has been assigned to improve the customer service of a retail company. The team has conducted a thorough analysis of the existing process, determined areas of improvement, and identified the desired outcomes of the project. Which of the following best describes this analysis?

- A. Process improvement
- B. Business objectives
- C. Current state vs. future state
- D. Project success criteria

Answer: ([SHOW ANSWER](#))

The analysis described is a current state vs. future state comparison. This identifies where the business is today, where it needs to go, and the gaps that must be bridged. This type of assessment underpins cloud adoption and architecture design, where the existing infrastructure/process is mapped against the target solution.

NEW QUESTION: 60

A cloud engineer tries to deploy five new cloud instances using code. An error occurs, and the instances are not created. The configuration fails to run. The engineer then receives the following error message:

```
ERROR: Parse error on json line x in config
Given the following snippet from the config.json file:
{ "instance_count": 5,
  "ssd_options" : ["100GB", "200GB", "300GB"],
  "instance_region": apac,
  "instance_code": 255,
  "start_instance" : true
}
```

Which of the following oversights created the error in the configuration file?

- A. Incorrect instance_count
- B. Incorrect ssd_options
- C. Missing quotations on instance_region
- D. Missing trailing comma on start_instance

Answer: C ([LEAVE A REPLY](#))

In JSON, string values must be enclosed in quotation marks. The value apac is missing quotes, which causes the JSON parser error. It should be "instance_region": "apac".

NEW QUESTION: 61

A system administrator supports an application in the cloud, which includes a restful API that receives an encrypted message that is passed to a calculator system. The administrator needs to ensure the proper function of the API using a new automation tool. Which of the following techniques would be BEST for the administrator to use to accomplish this requirement?

- A. Functional testing
- B. Performance testing
- C. Integration testing
- D. Unit testing

Answer: (SHOW ANSWER)

Functional testing is a type of software testing that validates the software system against the functional requirements/specifications. The purpose of Functional tests is to test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.

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NEW QUESTION: 62

Once a change has been made to templates, which of the following commands should a cloud architect use next to deploy an IaaS platform?

- A. git pull
- B. git fetch
- C. git commit
- D. git push

Answer: D (LEAVE A REPLY)

After making changes to templates, a cloud architect should use the git push command to deploy an IaaS platform. This command is used to upload the local repository content to a remote repository, making the new or changed templates available for the next deployment.

NEW QUESTION: 63

An administrator deploys a VM with an additional data disk. A developer installs and configures a database application on the data disk. After using the VM to perform very intensive read- and- write operations, the developer reports that the VM seems sluggish. Which of the following solutions represents the least amount of work the administrator needs to do to fix the issue?

- A. 1. Create a new VM with more CPU and RAM.
2. Have the developer install and configure the database application.
- B. 1. Stop the VM.
2. Change the data disk storage type to high performance.
3. Start the VM.
- C. 1. Create a new VM with a high-performance data disk.
2. Have the developer install and configure the database application.
- D. 1. Stop the VM.
2. Detach the data disk.
3. Create and attach a new high-performance data disk.

4. Start the VM.

Answer: ([SHOW ANSWER](#))

The performance issue is due to the disk type, not CPU or RAM. Changing the existing data disk to a high-performance tier requires minimal effort compared to reinstalling the application or rebuilding the VM.

NEW QUESTION: 64

Which of the following is a field of computer science that enables computers to identify and understand objects and people in images and videos?

- A. Image reconstruction
- B. Facial recognition
- C. Natural language processing
- D. Computer vision

Answer: ([SHOW ANSWER](#))

Computer vision is a field of computer science that enables computers to identify and understand objects and people in images and videos. It involves the development of systems that can capture and interpret visual information from the world, similar to the way humans do.

NEW QUESTION: 65

Which of the following types of storage provides the greatest performance advantage for a traditional relational database?

- A. File
- B. Object
- C. Block
- D. Ephemeral

Answer: ([SHOW ANSWER](#))

Block storage provides the greatest performance advantage for traditional relational databases due to its high performance and low-latency characteristics. Block storage allows databases to rapidly manage data in fixed-sized blocks, which is ideal for databases that require frequent read/write operations.

NEW QUESTION: 66

A company wants to build its new platform using a public cloud. The workload requirements include the following:

- * Implementation of custom CIS compliance
- * Patch for vulnerabilities within 24 hours
- * Warrant at least 1,800 IOPS per volume

Which of the following meets the requirements?

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

Answer: ([SHOW ANSWER](#))

Infrastructure as a Service (IaaS) provides the most flexibility among cloud service models, allowing for the implementation of custom security and compliance standards, such as CIS compliance. IaaS environments offer control over the infrastructure, enabling patch management within specific time frames. Additionally, IaaS providers typically offer configurable storage options, including the ability to specify IOPS (Input/Output Operations Per Second) per volume to meet performance requirements.

NEW QUESTION: 67

Project team members enter their time sheets into a system that also displays incurred project cost. Which of the following systems can perform this task?

- A. EDRMS
- B. CRM
- C. CMS
- D. ERP

Answer: ([SHOW ANSWER](#))

An ERP (Enterprise Resource Planning) system integrates financial management, HR, and operations. In this case, ERP can handle time tracking and cost reporting together. EDRMS manages documents, CRM handles customer relationships, and CMS manages content--not project costs.

NEW QUESTION: 68

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: ([SHOW ANSWER](#))

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.

NEW QUESTION: 69

An organization's large e-commerce website requires high availability and cannot have degraded performance. Which of the following should a cloud administrator do to best meet the requirements?

- A. Create a secondary server and load balance the traffic.
- B. Upgrade the drives to SSD and change the storage tier.
- C. Add a secondary NIC and configure network teaming to the existing server.
- D. Change the type of CPU and adjust the RAM size.

Answer: ([SHOW ANSWER](#))

Creating a secondary server with load balancing distributes traffic, ensuring high availability and preventing performance degradation.

NEW QUESTION: 70

The change control board received a request to approve a configuration change to deploy in the cloud production environment. Which of the following should have already been completed?

- A. Penetration test
- B. End-to-end security testing

- C. Cost benefit analysis
- D. User acceptance testing

Answer: ([SHOW ANSWER](#))

Before a configuration change is deployed in the cloud production environment, it is crucial to conduct User Acceptance Testing (UAT). UAT involves testing the system by the end-users or clients to ensure it can handle required tasks in real-world scenarios, according to specifications.

This testing is the final stage before the change is approved for production, ensuring that all functionalities meet user requirements and the system is ready for deployment.

NEW QUESTION: 71

A company's VMs that are created using the noncritical application tag are automatically shut down at 5:00 p.m. using a cronjob. Which of the following actions would allow a cloud engineer to stop all unresponsive instances with the least effort in case the automation fails?

- A. Using a Bash script to shut down all instances
- B. Using the cloud provider web console to check and stop the instances
- C. Using the cloud provider command line to stop the Instances based on tags
- D. Using the cloud audit logs for tagging and stopping events

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 72

Which of the following best describes why a project manager would decide to sign a fixed-price contract with a vendor?

- A. The scope of the project deliverable is clearly defined
- B. There is a non-disclosure agreement in place
- C. There are multiple requirements for the product
- D. The PM wants to simplify the logistics of the required product

Answer: ([SHOW ANSWER](#))

A fixed-price contract is suitable when the scope is well defined and stable. This shifts cost risk to the vendor, as they must deliver within the agreed-upon price. NDAs, requirements volume, or logistics do not determine contract type as strongly as scope clarity does.

NEW QUESTION: 73

A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

- A. Cryptojacking
- B. Human error
- C. DDoS
- D. Phishing

Answer: ([SHOW ANSWER](#))

Elevated response times without reported issues or changes internally could indicate a Distributed Denial of Service (DDoS) attack, where multiple systems flood the bandwidth or resources of a targeted system, usually one or more web servers.

NEW QUESTION: 74

Which of the following types of releases best describes the update made to a code repository production release when it changes from version 1.0 to version 1.1?

- A. Alpha
- B. Beta

- C. Minor
- D. Major

Answer: ([SHOW ANSWER](#))

Updates from version 1.0 to 1.1 signify incremental improvements or minor feature additions without significant changes.

NEW QUESTION: 75

Which of the following do developers use to keep track of changes made during software development projects?

- A. Code drifting
- B. Code control
- C. Code testing
- D. Code versioning

Answer: ([SHOW ANSWER](#))

Developers use code versioning to keep track of changes made during software development projects. It is a system that records changes to a file or set of files over time so that specific versions can be recalled later.

NEW QUESTION: 76

A systems engineer is migrating a batch of 25 VMs from an on-premises compute cluster to a public cloud using the public cloud's migration agent. The migration job shows data copies at a rate of 250Mbps. After five servers migrate, the data copies at a rate of 25Mbps. Which of the following should the engineer review first to troubleshoot?

- A. The on-premises VM host hardware utilization
- B. The on-premises ISP throttling rate
- C. The IOPS on the SAN backing the on-premises cluster
- D. The compute utilization of the VMs being migrated

Answer: ([SHOW ANSWER](#))

The engineer should review the on-premises VM host hardware utilization first. A decrease in transfer rate after a batch of migrations could suggest that the host hardware resources (like CPU, RAM, or network bandwidth) are becoming saturated, which would slow down additional migrations.

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NEW QUESTION: 77

Which of the following describes the main difference between public and private container repositories?

- A. Private container repository access requires authorization, while public repository access does not require authorization.
- B. Private container repositories are hidden by default and containers must be directly referenced, while public container repositories allow browsing of container images.
- C. Private container repositories must use proprietary licenses, while public container repositories must have open-source licenses.
- D. Private container repositories are used to obfuscate the content of the Dockerfile, while public container repositories allow for Dockerfile inspection.

Answer: ([SHOW ANSWER](#))

The main difference between public and private container repositories lies in access control.

Public repositories allow users to download and use container images without requiring any authorization, making them accessible to anyone. On the other hand, private repositories require users to have proper authorization, usually through credentials, to access the container images, thus providing a level of privacy and security control.

NEW QUESTION: 78

An IT manager needs to deploy a cloud solution that meets the following requirements:

- Users must use two authentication methods to access resources.
- Each user must have 10GB of storage space by default.

Which of the following combinations should the manager use to provision these requirements?

- A. OAuth 2.0 and ephemeral storage
- B. OIDC and persistent storage
- C. MFA and storage quotas
- D. SSO and external storage

Answer: ([SHOW ANSWER](#))

The combination that should be used to provision the requirements of two authentication methods and 10GB of storage space by default for each user is Multi-Factor Authentication (MFA) and storage quotas. MFA provides an additional layer of security beyond just a username and password, and storage quotas can be used to allocate a specific amount of storage space for each user.

NEW QUESTION: 79

A project manager is reviewing quality planning techniques. Which of the following involves comparing results of similar activities?

- A. Performing a cost-benefit analysis
- B. Defining metrics
- C. Benchmarking
- D. Brainstorming

Answer: ([SHOW ANSWER](#))

Benchmarking is a quality technique that compares results, processes, or best practices from similar activities or organizations. It helps set realistic performance standards and identify improvement opportunities. Unlike cost-benefit analysis (financial), benchmarking focuses on performance comparison.

NEW QUESTION: 80

A system administrator has provisioned a new web server. Which of the following, in combination, form the best practice to secure the server's OS? (Choose three.)

- A. Install TLS certificates on the server.
- B. Forward port 80 traffic to port 443.
- C. Disable TLS 1.0/1.1 and SSL.
- D. Disable password authentication.
- E. Enable SSH key access only.
- F. Provision the server in a separate VPC.
- G. Disable the superuser/administrator account.
- H. Restrict access on port 22 to the IP address of the administrator's workstation.

Answer: A,D,E ([LEAVE A REPLY](#))

These three measures help to secure the web server by implementing encryption and securing the authentication process. By disabling password authentication and enabling SSH key access only, the server is less vulnerable to brute-force attacks. Installing TLS certificates on the server helps to encrypt communications, preventing data interception and tampering.

NEW QUESTION: 81

Which of the following compute resources is the most optimal for running a single scripted task on a schedule?

- A. Bare-metal server
- B. Managed container
- C. Virtual machine
- D. Serverless function

Answer: ([SHOW ANSWER](#))

Serverless functions are ideal for running scripted tasks on a schedule because they can be triggered by events, run the task, and then shut down, incurring costs only for the actual compute time used. This eliminates the need for a continuously running server and is optimal for sporadic or scheduled tasks.

NEW QUESTION: 82

An e-commerce store is preparing for an annual holiday sale. Previously, this sale has increased the number of transactions between two and ten times the normal level of transactions. A cloud administrator wants to implement a process to scale the web server seamlessly. The goal is to automate changes only when necessary and with minimal cost. Which of the following scaling approaches should the administrator use?

- A. Scale horizontally with additional web servers to provide redundancy.
- B. Allow the load to trigger adjustments to the resources.
- C. When traffic increases, adjust the resources using the cloud portal.
- D. Schedule the environment to scale resources before the sale begins.

Answer: ([SHOW ANSWER](#))

To seamlessly scale the web server for an e-commerce store during an annual sale, it's best to allow the load to trigger adjustments to the resources. This approach uses autoscaling to automatically adjust the number of active servers based on the current load, ensuring an automated change that is cost-effective.

NEW QUESTION: 83

A cloud engineer is extending on-premises services to a public cloud. The following design requirements must be considered in the overall solution:

- The ability to remotely connect systems from both environments
- No IP address conflicts or overlap
- Cost-effectiveness

Which of the following cloud network concepts best meets these requirements?

- A. Dedicated connection
- B. VPN
- C. VLAN
- D. ACL

Answer: ([SHOW ANSWER](#))

A Virtual Private Network (VPN) is the most cost-effective solution for extending on-premises services to a public cloud while ensuring secure remote connectivity. VPNs can be configured to avoid IP address conflicts and overlap by using IP address translation and tunneling techniques, making them suitable for connecting disparate environments without significant changes to the existing network infrastructure.

NEW QUESTION: 84

A cloud engineer wants containers to run the latest version of a container base image to reduce the number of vulnerabilities. The applications in use require Python 3.10 and are not compatible with any other version. The containers' images are created every time a new version is released from the source image. Given the container Dockerfile below:

```
FROM cgr.dev/chainguard/  
python:3.10  
WORKDIR /myapp  
COPY main.py ./  
ENTRYPOINT [ "/myapp/main.py" ]
```

Which of the following actions will achieve the objectives with the least effort?

- A. Perform docker pull before executing docker run.
- B. Execute docker update using a local cron to get the latest container version.
- C. Change the image to use python:latest on the image build process.
- D. Update the Dockerfile to pin the source image version.

Answer: A ([LEAVE A REPLY](#))

Performing a "docker pull" before executing "docker run" ensures that the latest version of the container base image is used, aligning with the objective of reducing vulnerabilities. This command fetches the latest image version from the repository, ensuring that the container runs the most up-to-date and secure version of the base image. This approach is efficient and requires minimal effort, as it automates the process of maintaining the latest image versions for container deployments.

NEW QUESTION: 85

During project initiation, a project manager needs to identify goals and deliverables that should be completed by the end of the project and also meet certain cost and time factors. Which of the following would best align with these needs?

- A. Work breakdown structure
- B. Change log
- C. Project success criteria
- D. Milestone chart

Answer: C ([LEAVE A REPLY](#))

Project success criteria are the standards used to evaluate whether a project has met its goals within cost, time, and quality boundaries. These are defined early in initiation and form part of governance to ensure alignment with business value. WBS and milestones come later during planning and scheduling.

NEW QUESTION: 86

A company is required to save historical data for seven years. A cloud administrator implements a script that automatically deletes data older than seven years. Which of the following concepts best describes why the historical data is being deleted?

- A. End of life
- B. Data loss prevention
- C. Cost implications
- D. Tiered storage for archiving

Answer: ([SHOW ANSWER](#))

Deleting historical data older than seven years as described is an example of data end of life (EOL) policies in action. These policies dictate when data is no longer needed or relevant and should be securely disposed of, often for compliance, legal, or cost-saving reasons.

NEW QUESTION: 87

A cloud security analyst is concerned about security vulnerabilities in publicly available container images. Which of the following is the most appropriate action for the analyst to recommend?

- A. Using CIS-hardened images
- B. Using watermarked images
- C. Using images that have an application firewall
- D. Using digitally signed images

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 88

A CI/CD pipeline is used to deploy VMs to an IaaS environment. Which of the following can be used to harden the operating system once the VM is running?

- A. Docker
- B. Kubernetes
- C. Git
- D. Ansible

Answer: ([SHOW ANSWER](#))

Ansible can be used to harden the operating system once the VM is running. It is an automation tool that can configure systems, deploy software, and orchestrate more advanced IT tasks such as continuous deployments or zero downtime rolling updates.

NEW QUESTION: 89

Which of the following effects would a modification to the host affinity configuration in the cloud console have?

- A. Hosts in a multicloud environment will run on the same host.
- B. A VM will run only on a particular underlying host or group of hosts.
- C. Host affinity configuration will have no effect in the cloud environment.
- D. An affinity rule will not disqualify hosts from being eligible to start.

Answer: ([SHOW ANSWER](#))

Host affinity rules tie a VM to specific hosts or groups of hosts, ensuring the VM runs only on the designated infrastructure. This is typically used for licensing, performance, or compliance requirements.

NEW QUESTION: 90

A project team is reviewing the project plan and related documents and identifies tasks that could be spread into smaller deliverables. Which of the following documents should the team edit first?

- A. Risk assessment
- B. Preliminary scope statement
- C. Work breakdown structure
- D. Milestone chart

Answer: ([SHOW ANSWER](#))

The Work Breakdown Structure (WBS) is the hierarchical decomposition of deliverables into smaller, manageable work packages. If tasks need to be split into smaller deliverables, the WBS is the document to update first. Risk assessments and milestone charts serve other purposes.

NEW QUESTION: 91

Which of the following types of storage is read-only and is accessed only when needed?

- A. Cold
- B. Hot
- C. Warm
- D. Archive

Answer: D (LEAVE A REPLY)

Archive storage is designed for long-term retention, is typically read-only, and accessed only when needed, such as for compliance or historical data retrieval.

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NEW QUESTION: 92

A software engineer is integrating an application to the cloud that is web socket based. Which of the following applications is the engineer most likely deploying?

- A. Image-sharing
- B. Data visualization
- C. Chat
- D. File transfer

Answer: (SHOW ANSWER)

A chat application is most likely to be deployed when integrating a web socket-based application to the cloud. Web sockets provide full-duplex communication channels over a single, long-lived connection, which is ideal for real-time applications like chat services that require persistent connections between the client and server for instant data exchange.

NEW QUESTION: 93

A healthcare provider contacts a MSP about moving an on-premises infrastructure to the cloud.

Which of the following requirements are most important for the MSP to consider when migrating this customer? (Choose two.)

- A. Security
- B. Cost
- C. Availability
- D. Storage
- E. Compliance
- F. Compute

Answer: (SHOW ANSWER)

Security is critical to protect sensitive healthcare data during and after migration.

Compliance ensures the cloud environment meets healthcare regulations such as HIPAA.

NEW QUESTION: 94

A company recently experienced a ransomware attack. The recovery process was slow because the on-site backups were compromised and off-site backups were required. Which of the following features would enable a faster recovery if a ransomware attack would happen again?

- A. Integrity
- B. Encryption
- C. Immutability
- D. Replication

Answer: (SHOW ANSWER)

Immutability ensures that backup data cannot be modified, deleted, or encrypted by ransomware or malicious actors. If an attack occurs, the company can quickly restore clean, unaltered backups, significantly speeding up the recovery process. Implementing immutable backups prevents ransomware from compromising backup copies, reducing downtime and data loss.

NEW QUESTION: 95

A cloud administrator needs to establish a secure connection between two different locations.

Which of the following is the BEST option to implement the secure connection?

- A. HTTPS
- B. IPSec
- C. TLS
- D. SSH

Answer: (SHOW ANSWER)

IPSec is a suite of protocols that provides secure communication over an insecure network, such as the internet. It uses encryption to protect the data from being intercepted and read by unauthorized parties.

HTTPS is a secure version of HTTP that uses TLS to encrypt the data. However, HTTPS is only used for web traffic, while IPSec can be used for any type of traffic.

TLS is a cryptographic protocol that is used to secure communications over a network. It is often used in conjunction with other protocols, such as HTTPS.

SSH is a secure shell protocol that is used to access remote systems. It uses encryption to protect the data from being intercepted and read by unauthorized parties.

Therefore, IPSec is the best option to implement a secure connection between two different locations, as it can be used for any type of traffic.

NEW QUESTION: 96

An organization's security policy states that software applications should not exchange sensitive data in cleartext. The security analyst is concerned about a software application that uses Base64 to encode credit card data. Which of the following would be the best algorithm to replace Base64?

- A. 3DES
- B. AES
- C. RC4
- D. SHA-3

Answer: (SHOW ANSWER)

AES (Advanced Encryption Standard) is the best algorithm to replace Base64 for secure data exchange. Base64 is an encoding method that is not secure by itself, as it's easily reversible.

AES, on the other hand, is a widely used encryption standard that ensures data is protected and is not readable without the correct encryption key.

NEW QUESTION: 97

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: (SHOW ANSWER)

The best way to identify the root cause of why the new cloud administrator cannot access the engineering VM is to review the administrator's permissions. It is possible that there is a configuration issue or a delay in updating the permissions for the newly promoted administrator.

Confirming that they have the same permissions as the other administrators will help determine if the issue is related to permissions.

NEW QUESTION: 98

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: (SHOW ANSWER)

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.

NEW QUESTION: 99

A company is considering consolidating a number of physical machines into a virtual infrastructure that will be located at its main office. The company has the following requirements:

- High-performance VMs
- More secure
- Has system independence

Which of the following is the BEST platform for the company to use?

- A. Type 1 hypervisor
- B. Type 2 hypervisor
- C. Software application virtualization
- D. Remote dedicated hosting

Answer: (SHOW ANSWER)

Type 1 hypervisor would be the BEST platform for the company to use in this scenario. Type 1 hypervisors are native hypervisors that are installed directly on the host machine's hardware. They provide high-performance virtualization, better security, and greater system independence, making them a better option than Type 2 hypervisors, software application virtualization, or remote dedicated hosting.

NEW QUESTION: 100

Which of the following storage types requires immediate access to backup data in case of a disaster?

- A. Archive
- B. Hot
- C. Cold
- D. Warm

Answer: ([SHOW ANSWER](#))

Hot storage provides immediate, high-speed access to data, making it the appropriate choice for disaster recovery scenarios where backup data must be available without delay.

NEW QUESTION: 101

Which of the following is an intended outcome of a stand-up meeting?

- A. To identify team members for next tasks
- B. To identify future tasks
- C. To identify stakeholders for next tasks
- D. To identify blocking tasks

Answer: ([SHOW ANSWER](#))

Daily stand-ups focus on progress and impediments. Identifying blocking tasks helps the team resolve issues quickly to maintain productivity and keep operations flowing. This aligns with operational best practices in both agile and cloud environments.

NEW QUESTION: 102

A systems administrator wants the VMs on the hypervisor to share CPU resources on the same core when feasible. Which of the following will BEST achieve this goal?

- A. Configure CPU passthrough.
- B. Oversubscribe CPU resources.
- C. Switch from a Type 1 to a Type 2 hypervisor.
- D. Increase instructions per cycle.
- E. Enable simultaneous multithreading.

Answer: ([SHOW ANSWER](#))

Simultaneous multithreading (SMT) is a technique that allows a single CPU core to execute multiple threads simultaneously. This can improve the performance of VMs by allowing them to share CPU resources on the same core.

NEW QUESTION: 103

A cloud administrator is provisioning infrastructure to run an application with the following requirements:

- Ten midsize instances need to run as a cluster most of the day.
- Sixteen midsize instances are required during peak hours.
- Costs must be kept low.
- The instances must be deployed in an IaaS model.
- The application has no tolerance for service disruptions.

Which of the following steps should the cloud architect take to host the application?

- A. Reserve 16 instances but turn off the unused instances outside of peak hours.
- B. Use ten pay-as-you-go instances and add six spot instances during peak hours.
- C. Deploy reserved instances for normal operation and add pay-as-you-go instances during peak hours.
- D. Configure the workload to use spot instances with scheduled scaling for normal operation, including peak hours.

Answer: C ([LEAVE A REPLY](#))

This solution provides a cost-effective and highly available approach to meet the application's needs:

Reserved instances are a good fit for the ten midsize instances that run most of the day, as they are typically offered at a discounted rate and are guaranteed.

During peak hours, pay-as-you-go instances can be added to handle the additional six instances required. This ensures scalability without committing to additional reserved capacity for off-peak times, which helps in reducing costs.

NEW QUESTION: 104

A cloud engineer deploys two virtual machines and migrates a local web application and database, respectively. After the engineer updates the DNS records, the web application does not respond. Which of the following should the cloud engineer do to troubleshoot the issue?

- A.** Increase the size and throughput of the virtual machines to allow more concurrent sessions.
- B.** Verify whether the operating systems in the virtual machines are compatible with the web application and database.
- C.** Check to ensure the new web application server configuration file points to the correct database location.
- D.** Repeat the migration to discard any inconsistencies during the data transfer.

Answer: ([SHOW ANSWER](#))

The web application not responding after DNS updates often indicates a misconfiguration, such as the web server not correctly pointing to the migrated database location. Verifying this ensures proper connectivity between the application and database.

NEW QUESTION: 105

A cloud engineer is exploring options to reduce the management overhead of the servers and network. Which of the following cloud service models should the engineer implement?

- A.** SaaS
- B.** XaaS
- C.** PaaS
- D.** IaaS

Answer: ([SHOW ANSWER](#))

Platform as a Service (PaaS) provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app. Adopting PaaS can significantly reduce the management overhead of servers and networks.

NEW QUESTION: 106

Department supervisors have requested a report that will help them understand the utilization of cloud resources, make decisions about budgeting for the following year, and reduce costs.

Which of the following are the most important requisite steps to create the report? (Choose two.)

- A.** Set the desired retention of resource logs.
- B.** Configure application tracing.
- C.** Integrate email alerts with ticketing software.
- D.** Enable resource tagging.
- E.** Configure the collection of performance/utilization logs.
- F.** Configure metric threshold alerts.

Answer: ([SHOW ANSWER](#))

Enabling resource tagging allows categorization of resources by department, project, or purpose. This enables more granular tracking and reporting of costs associated with specific departments or initiatives, which is essential for budgeting and cost management.

Configuring the collection of performance/utilization logs provides the necessary data on how cloud resources are being used. This information is crucial for understanding resource utilization, identifying potential inefficiencies, and making informed budgeting decisions.

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NEW QUESTION: 107

Which of the following package managers would most likely be used with Ubuntu Linux?

- A. YUM
- B. DNF
- C. Pacman
- D. APT

Answer: ([SHOW ANSWER](#))

APT (Advanced Package Tool) is the package manager used in Ubuntu Linux and other Debian-based distributions. It manages software installation, updates, and dependencies using the .deb package format. Common commands include apt-get install, apt update, and apt upgrade.

NEW QUESTION: 108

A company has been using a CRM application that was developed in-house and is hosted on local servers. Due to internal changes, the company wants to migrate the application to the cloud without having to manage the infrastructure. Which of the following services should the company consider?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 109

Which of the following files should be used to install software with a package manager?

- A. package.json
- B. package.zip
- C. package.deb
- D. package.tar

Answer: ([SHOW ANSWER](#))

In Linux-based systems, .debfiles are used by package managers like dpkg and APT (Advanced Package Tool) to install software on Debian-based distributions (e.g., Ubuntu). Package managers handle dependencies and ensure proper installation.

NEW QUESTION: 110

A banking firm's cloud server will be decommissioned after a successful proof of concept using mirrored data. Which of the following is the best action to take regarding the storage used on the decommissioned server?

- A. Keep it temporarily.

- B. Archive it.
- C. Delete it.
- D. Retain it permanently

Answer: ([SHOW ANSWER](#))

When a cloud server is decommissioned after a proof of concept, the best action to take regarding the storage used on the server is to archive it. Archiving ensures that the data is kept in a less accessible but secure storage service, which may be required for regulatory or compliance reasons, especially for a banking firm.

NEW QUESTION: 111

Which of the following are best practices when working with a source control system? (Choose two.)

- A. Merging code often
- B. Pushing code directly to production
- C. Performing code deployment
- D. Maintaining one branch for all features
- E. Committing code often
- F. Initiating a pull request

Answer: ([SHOW ANSWER](#))

Best practices when working with a source control system include merging code often to ensure that changes from different team members are integrated regularly, reducing integration issues.

Committing code often is also recommended to save small changes frequently, which helps in tracking changes and resolving issues more effectively.

NEW QUESTION: 112

Between 11:00 a.m. and 1:00 p.m. on workdays, users report that the sales database is either not accessible, sluggish, or difficult to connect to. A cloud administrator discovers that during the impacted time, all hypervisors are at capacity. However, when 70% of the users are using the same database, those issues are not reported. Which of the following is the most likely cause?

- A. Oversubscription
- B. Resource allocation
- C. Sizing issues
- D. Service quotas

Answer: ([SHOW ANSWER](#))

The most likely cause of accessibility and performance issues during specific times is oversubscription. This happens when more users are trying to access the database than the hypervisors can handle, due to their resources being allocated to more virtual machines or processes than they can efficiently support.

NEW QUESTION: 113

Two CVEs are discovered on servers in the company's public cloud virtual network. The CVEs are listed as having an attack vector value of network and CVSS score of 9.0. Which of the following actions is the best way to mitigate the vulnerabilities?

- A. Patching the operating systems
- B. Upgrading the operating systems to the latest beta
- C. Encrypting the operating system disks
- D. Disabling unnecessary open ports

Answer: ([SHOW ANSWER](#))

A CVSS score of 9.0 indicates critical vulnerabilities, and with a network attack vector, they can be exploited remotely. The most effective mitigation is applying vendor patches to fix the underlying vulnerabilities in the operating systems.

NEW QUESTION: 114

Which of the following is the best type of database for storing different types of unstructured data that may change frequently?

- A. Vector
- B. Relational
- C. Non-relational
- D. Graph

Answer: (SHOW ANSWER)

A non-relational (NoSQL) database is the best choice for storing unstructured and frequently changing data. Unlike relational databases, which require fixed schemas and structured data, NoSQL databases offer flexibility and scalability, making them ideal for handling varied data formats such as JSON, XML, videos, and logs.

NEW QUESTION: 115

An administrator is securing a private cloud environment and wants to ensure only approved systems can connect to switches. Which of the following would be MOST useful to accomplish this task?

- A. VLAN
- B. NIPS
- C. WAF
- D. NAC

Answer: (SHOW ANSWER)

NAC is a security solution that helps to enforce network security policies by controlling access to network resources. It ensures that only authorized devices can access the network by validating their identity and checking their compliance with security policies.

NEW QUESTION: 116

Which of the following strategies requires the development of new code before an application can be successfully migrated to a cloud provider?

- A. Refactor
- B. Rearchitect
- C. Rehost
- D. Replatform

Answer: (SHOW ANSWER)

Refactoring requires the development of new code before an application can be successfully migrated to a cloud provider. It often involves restructuring and optimizing the existing code without changing its external behavior to fit into the new cloud environment.

NEW QUESTION: 117

Which of the following requirements are core considerations when migrating a small business's on- premises applications to the cloud? (Choose two.)

- A. Availability
- B. Hybrid
- C. Testing
- D. Networking
- E. Compute

F. Logs

Answer: ([SHOW ANSWER](#))

When migrating on-premises applications to the cloud for a small business, availability and networking are core considerations. Ensuring that applications are available and that the network is capable of handling the new cloud traffic are pivotal for a successful transition.

NEW QUESTION: 118

Which of the following best describes a system that keeps all different versions of a software separate from each other while giving access to all of the versions?

- A. Code documentation
- B. Code control
- C. Code repository
- D. Code versioning

Answer: ([SHOW ANSWER](#))

Code versioning is the practice of managing multiple versions of a software project while keeping them separate and accessible. It allows developers to track changes, revert to previous versions, and collaborate effectively without losing historical modifications. Version control systems like Git, SVN, and Mercurial enable developers to manage branches, tags, and commits to maintain different versions of the software.

NEW QUESTION: 119

A company is developing a new web application that requires a relational database management system with minimal operational overhead. Which of the following should the company choose?

- A. A database installed on a virtual machine
- B. A managed SQL database on the cloud
- C. A database migration service
- D. A hybrid database setup

Answer: ([SHOW ANSWER](#))

For a new web application that requires a relational database management system with minimal operational overhead, the company should choose a managed SQL database on the cloud. Managed databases provide automated backups, patching, and other management tasks, reducing the administrative burden.

NEW QUESTION: 120

A cloud engineer is reviewing a disaster recovery plan that includes the following requirements:

- System state, files, and configurations must be backed up on a weekly basis.
- The system state, file, and configuration backups must be tested annually.

Which of the following backup methods should the engineer implement for the first week the plan is executed?

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

Answer: ([SHOW ANSWER](#))

A full backup method should be implemented for the first week the disaster recovery plan is executed. This will ensure that a complete copy of the system state, files, and configurations are backed up. Subsequent backups can be differential or incremental as per the plan.

NEW QUESTION: 121

A DevOps engineer is performing maintenance on the mail servers for a company's web application. Part of this maintenance includes checking core operating system updates. The servers are currently running version 3.2 of the operating system. The engineer has two update options--one to version 4.1 and the other to version 3.7. Both versions are fully supported by the operating system manufacturer. Which of the following best describes the action the engineer should take?

- A. Upgrade to 3.7 in the development environment.
- B. Upgrade to 4.1 on one production server at a time.
- C. Read the release notes on version 4.1.
- D. Schedule a maintenance window and upgrade to 3.7 in the production environment.

Answer: (SHOW ANSWER)

Before making any updates to the production environment, the best course of action is to perform the update in a development or testing environment. Upgrading to version 3.7, which is a minor update, is generally less risky and should be tested first to ensure compatibility and stability before considering the major update to version 4.1.

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NEW QUESTION: 122

Which of the following is an example of refactoring?

- A. Creation of a container registry
- B. Code changes to facilitate platform hosting
- C. Operating system upgrade
- D. Document conversion to a secure file format

Answer: (SHOW ANSWER)

Refactoring involves modifying existing code to improve its efficiency, maintainability, or compatibility without changing its core functionality. Making code changes to facilitate platform hosting, such as adapting an application for cloud-native deployment, containerization, or microservices, is a key example of refactoring.

NEW QUESTION: 123

An organization needs to retain its data for compliance reasons but only when required. Which of the following would be the most cost-effective type of tiered storage?

- A. Warm
- B. Hot
- C. Archive
- D. Cold

Answer: (SHOW ANSWER)

Archive storage is the most cost-effective type of tiered storage for retaining data that is infrequently accessed and only when required for compliance reasons. It is designed for long-term storage and offers lower storage costs compared to hot, cold, or warm storage tiers.

NEW QUESTION: 124

Which of the following refers to the idea that data should stay within certain borders or territories?

- A. Data classification

- B. Data retention
- C. Data sovereignty
- D. Data ownership

Answer: ([SHOW ANSWER](#))

Data sovereignty refers to the concept that data is subject to the laws and governance structures within the nation it is collected or stored. It implies that regardless of where a company's data is stored, the data must comply with the laws of the country where it is physically located.

NEW QUESTION: 125

A customer is migrating applications to the cloud and wants to grant authorization based on the classification levels of each system. Which of the following should the customer implement to ensure authorisation to systems is granted when the user and system classification properties match? (Choose two.)

- A. Resource tagging
- B. Discretionary access control
- C. Multifactor authentication
- D. Role-based access control
- E. Token-based authentication
- F. Bastion host

Answer: ([SHOW ANSWER](#))

Resource tagging allows classification of systems and resources, enabling policies to be applied based on those tags.

Attribute-based access control (ABAC) grants authorization based on matching attributes like classification levels between users and systems.

NEW QUESTION: 126

A security analyst reviews the daily logs and notices the following suspicious activity:

Host	NA/US/John Smith
IP	10.150.71.101
Activity	A powershell process executed compressed, encoded command line content.

The analyst investigates the firewall logs and identifies the following:

Operating system	Kali Linux
CPU	x64
Filesystem	ext4
User	John Smith
Category	Compromised - Unauthorized Access
Domain	NA/US
IP	201.101.25.121 (External)
Port	4444
Connection type	Inbound Connection

Which of the following steps should the security analyst take next to resolve this issue? (Choose two.)

- A. Submit an IT support ticket and request Kali Linux be uninstalled from John Smith's computer
- B. Block all inbound connections on port 4444 and block the IP address 201.101.25.121.
- C. Contact John Smith and request the Ethernet cable attached to the desktop be unplugged
- D. Check the running processes to confirm if a backdoor connection has been established.
- E. Upgrade the Windows x64 operating system on John Smith's computer to the latest version.
- F. Block all outbound connections from the IP address 10.150.71.151.

Answer: ([SHOW ANSWER](#))

Given the suspicious activity and Kali Linux's association with penetration testing and hacking tools, the security analyst should block all inbound connections on port 4444, as it is commonly used for malicious purposes, and block the IP address that's potentially the source of the intrusion. Additionally, checking the running processes on John Smith's computer is crucial to determine if a backdoor or unauthorized connection has been established.

NEW QUESTION: 127

A cloud engineer is in charge of deploying a platform in an IaaS public cloud. The application tracks the state using session cookies, and there are no affinity restrictions. Which of the following will help the engineer reduce monthly expenses and allow the application to provide the service?

- A. Resource metering
- B. Reserved resources
- C. Dedicated host
- D. Pay-as-you-go model

Answer: ([SHOW ANSWER](#))

The pay-as-you-go (PAYG) model allows the cloud engineer to optimize costs by paying only for the resources actually used, rather than committing to long-term reserved instances or dedicated hosts. Since the application uses session cookies for tracking state and has no affinity restrictions, it can efficiently scale up or down based on demand. This flexibility helps reduce monthly expenses by avoiding over-provisioning and ensuring resources are used efficiently.

NEW QUESTION: 128

A company is running a set of replica containers with image version 1. The company updates the image to version 2 and would like to replace some of the version 1 images with version 2. During the replacement process, a minimum percentage of version 1 replicas need to be kept running while starting image version 2 containers alongside them. Which of the following deployment methods is best given the company's requirements?

- A. In-place
- B. Rolling
- C. Upgrading
- D. Patching

Answer: ([SHOW ANSWER](#))

A rolling deployment gradually replaces old container replicas with new ones, ensuring a minimum number of the old version remain available while new version containers start, meeting the requirement for continuous availability during the update.

NEW QUESTION: 129

An administrator is setting up a cloud backup solution that requires the following features:

- Cost effective
- Granular recovery
- Multilocation

Which of the following backup types best meets these requirements?

- A. Off-site, full, incremental, and differential
- B. Cloud site, full, and differential
- C. On-site, full, and incremental
- D. On-site, full, and differential

Answer: A ([LEAVE A REPLY](#))

An off-site cloud backup solution that offers full, incremental, and differential backups would best meet the requirements of being cost-effective, allowing granular recovery, and supporting multi- location storage. This combination allows for comprehensive backup strategies that can be tailored to the company's needs while optimizing storage costs.

NEW QUESTION: 130

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: ([SHOW ANSWER](#)**)**

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.

NEW QUESTION: 131

SIMULATION 3

A company hosts various containerized applications for business uses. A client reports that one of its routine business applications fails to load the web-based login prompt hosted in the company cloud.



INSTRUCTIONS

Click on each device and resource. Review the configurations, logs, and characteristics of each node in the architecture to diagnose the issue. Then, make the necessary changes to the WAF configuration to remediate the issue.

Web app 1			
SVC_Host	SVC_Name	SVC_IP	SVC_Port
webapp1	FIN	10.22.10.11	443

Web app 2			
SVC_Host	SVC_Name	SVC_IP	SVC_Port
webapp2	VIDEO	10.22.10.21	443

Web app 3			
SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp3	API	10.22.10.31	443

Web app 4			
SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp4	CHAT	10.22.10.41	443

Client app	
Client laptop	App config
https_enabled	true
cert_status	valid
start	login

Client app

Client laptop

App config

Host

client142

IP

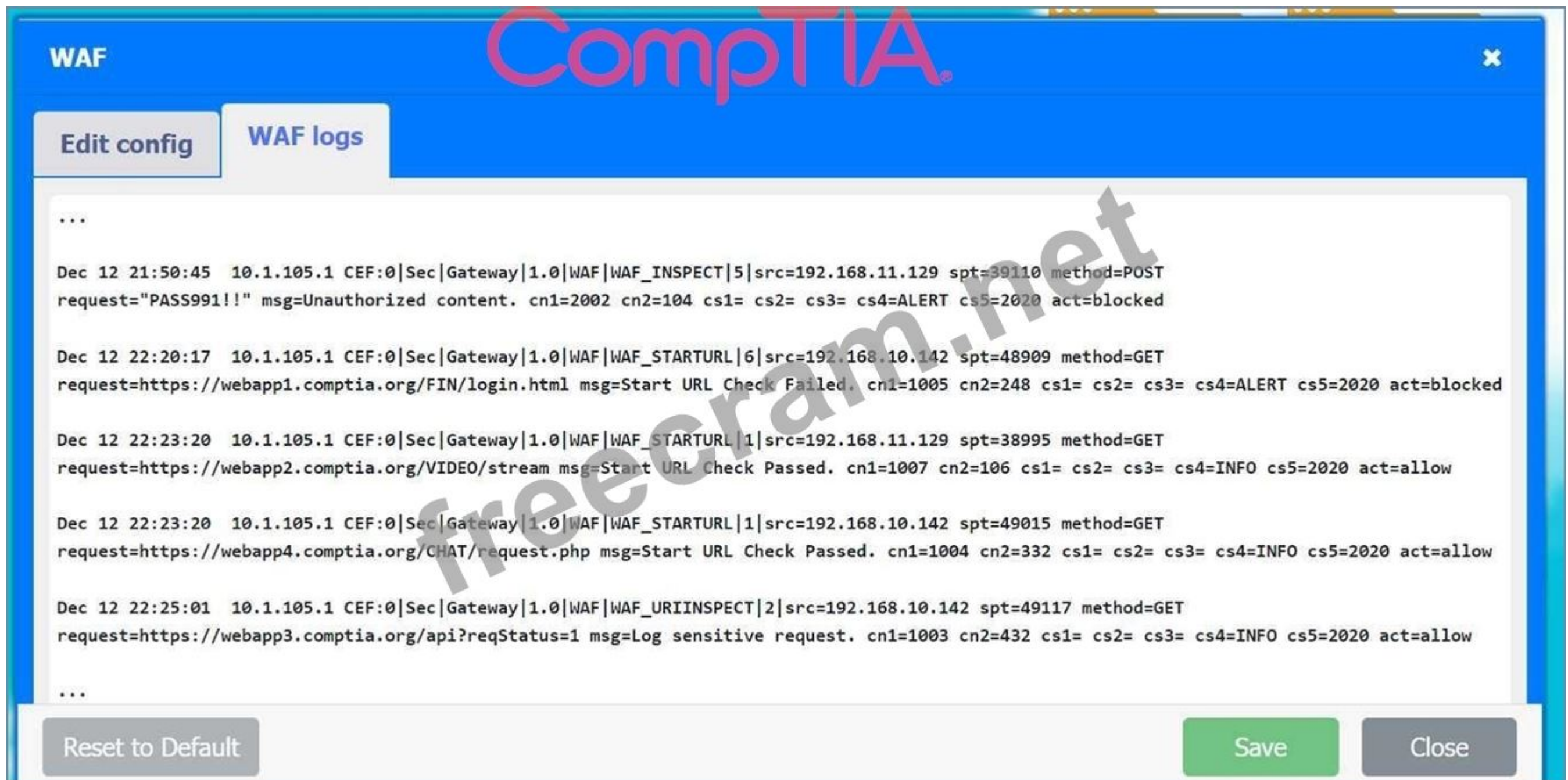
192.168.10.142

WAF

Edit config

WAF logs

Rule ID	Description	Service	Action	Availability zone
1001	Brute-force attempt	^https://webapp[.]comptia[.]org/\$	Block v	A
1002	Botnet	^https://webapp[.]comptia[.]org/\$	Block v	A
1003	API web server	^https://webapp3[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_-?]*/*)*\$	Allow v	B
1004	Chat web traffic	^https://webapp4[.]comptia[.]org/chat/request[.]php\$	Allow v	B
1005	Finance application 1	^https://webapp1[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_-?]*/*)*\$	Allow v	B
1006	Finance application 2	^https://webapp1[.]comptia[.]org/login[.]html\$	Block v	A
1007	Video application	^https://webapp2[.]comptia[.]org/video/stream\$	Allow v	A



Answer:

The issue is with Web app 1 (Finance application).

From the WAF logs, we can see that requests to <https://webapp1.comptia.org/FIN/login.html> are being blocked (Rule ID 1006). The rule is configured to block access to the finance application's login page. This corresponds to the reported issue of the web-based login prompt not loading. To remediate the issue, the WAF configuration for Rule ID 1006 should be changed from "Block" to

"Allow". This will enable the web-based login prompt to load for the client. Additionally, the client app configuration indicates that the client laptop (IP 192.168.10.142) is trying to access the service, and the WAF logs show that requests from this IP are being blocked due to the current rule set. Changing the action for Rule ID 1006 will also ensure that legitimate attempts to access the login page from this IP are not blocked.

Steps for remediation:

Go to the WAF configuration.

Find Rule ID 1006 for the Finance application 1.

Change the action from "Block" to "Allow".

Save the changes.

NEW QUESTION: 132

A cloud administrator learns that a major version update, 4.6.0, is available for a business-critical application. The application is currently on version 4.5.2, with additional minor versions 3, 4, and

5 available. The administrator needs to perform the update while minimizing downtime. Which of the following should the administrator do first?

- A. Apply the minor updates and then restart the machine before applying the major update.
- B. During off hours, decommission the machine and create a new one directly on major update 4.6.0.
- C. Stop the service and apply the major updates directly.
- D. Create a test environment and apply the major update

Answer: ([SHOW ANSWER](#))

The first step the administrator should take is to create a test environment and apply the major update there. This allows for testing the new version without impacting the production environment, thus minimizing downtime and the potential for unexpected issues.

NEW QUESTION: 133

An organization's internal security team mandated that public cloud resources must be accessible only by a corporate VPN and not by direct public internet access. Which of the following would achieve this objective?

- A. WAF
- B. ACL
- C. VPC
- D. SSH

Answer: ([SHOW ANSWER](#))

A Virtual Private Cloud (VPC) allows users to create a secluded section of the public cloud where resources can be launched in a defined virtual network. This enables an organization to have a section of the cloud that is secured and isolated from the public internet, thus, access to public cloud resources can be restricted to only a corporate VPN.

NEW QUESTION: 134

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: ([SHOW ANSWER](#))

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.

NEW QUESTION: 135

A company recently set up a CDN for its photography and image-sharing website. Which of the following is the most likely reason for the company's action?

- A. To eliminate storage costs
- B. To improve site speed
- C. To enhance security of static assets
- D. To prevent unauthorized access

Answer: (SHOW ANSWER)

The most likely reason for setting up a Content Delivery Network (CDN) is to improve site speed, especially for a photography and image-sharing website. CDNs cache content at edge locations closer to end-users, significantly reducing load times for static assets like images and videos.

This enhancement in speed can improve user experience and site performance.

NEW QUESTION: 136

Participant attendance has been poor at the last few weekly meetings. The project manager wants to validate who the participants should be, how often the meetings should occur, and on which day and at what time the meeting should be held. Which of the following is the best place to validate this information?

- A. Project communication plan
- B. Project management plan
- C. Project business case
- D. Project schedule

Answer: (SHOW ANSWER)

The communication plan defines the meeting cadence, frequency, participants, formats, and methods of communication. If participation is low, the project manager refers to this plan for validation and adjustment. This is part of governance and compliance to ensure the right stakeholders are engaged appropriately.

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NEW QUESTION: 137

Which of the following is used to detect signals and measure physical properties, such as the temperature of the human body?

- A. Beacon
- B. Transmission protocols
- C. Sensors
- D. Gateways

Answer: (SHOW ANSWER)

Sensors are used to detect signals and measure physical properties, such as temperature. They are devices that respond to a physical stimulus (like heat, light, sound, pressure, magnetism, or a particular motion) and transmit a resulting impulse for detection and measurement.

NEW QUESTION: 138

A cloud engineer needs to integrate a new payment processor with an existing e-commerce website. Which of the following technologies is the best fit for this integration?

- A. RPC over SSL
- B. Transactional SQL
- C. REST API over HTTPS
- D. Secure web socket

Answer: (SHOW ANSWER)

REST API over HTTPS is widely used for integrating external services, like payment processors, with web applications. REST APIs are secure, reliable, and allow for standardized communication over HTTP/HTTPS, which is crucial for secure data transmission in payment processing.

NEW QUESTION: 139

Which of the following is true of SSDs?

- A. SSDs do not have self-encrypting capabilities.
- B. SSDs have small storage capacities.
- C. SSDs can be used for high-IOP applications.
- D. SSDs are used mostly in cold storage.

Answer: ([SHOW ANSWER](#))

SSDs (Solid State Drives) are known for their high performance and can handle a high number of input/output operations per second (IOPS). This makes them ideal for applications and workloads that require rapid access to storage, such as databases and high-performance computing applications.

NEW QUESTION: 140

Which of the following is the most cost-effective way to store data that is infrequently accessed?

- A. Cold site
- B. Hot site
- C. Off-site
- D. Warm site

Answer: ([SHOW ANSWER](#))

The most cost-effective way to store data that is infrequently accessed is typically an off-site storage service, often referred to as cold or archival storage. This type of storage is designed for data that is rarely accessed, providing lower storage costs.

NEW QUESTION: 141

A cloud solutions architect needs to have consistency between production, staging, and development environments. Which of the following options will best achieve this goal?

- A. Using Terraform templates with environment variables
- B. Using Grafana in each environment
- C. Using the ELK stack in each environment
- D. Using Jenkins agents in different environments

Answer: A ([LEAVE A REPLY](#))

Terraform templates with environment variables can ensure consistency across different environments such as production, staging, and development. Terraform allows for infrastructure as code, which can be used to define and maintain infrastructure with consistency.

NEW QUESTION: 142

A developer is sending requests to a SaaS application. The developer becomes unable to send anymore requests after sending a number of them, but other developers can still send requests.

Which of the following is most likely causing the issue?

- A. Partial outage
- B. API throttling
- C. Rate limiting
- D. Service quota

Answer: ([SHOW ANSWER](#))

Rate limiting restricts the number of requests a single user or client can send in a given time window. Since only this developer is affected while others can still send requests, the issue is most likely due to per-user rate limiting rather than a global outage or quota.

NEW QUESTION: 143

A company's data must be recoverable in other regions of the world in the event of a disaster.

The data must be available in an RPO of one hour. Which of the following should a cloud administrator apply to meet these requirements?

- A. Replication
- B. Retention
- C. Encryption
- D. Schedule

Answer: (SHOW ANSWER)

Replication involves copying data from one location to another, often in different regions, to ensure high availability and disaster recovery capabilities. By setting up replication, the company can ensure that its data is available in other regions in the event of a disaster, and that it can meet the Recovery Point Objective (RPO) of one hour. This ensures that the data is backed up continuously or in near real-time, so the most recent copy is available even if a disaster occurs.

NEW QUESTION: 144

Which of the following is the correct order of the steps to take when a system is suspected of being vulnerable?

- A. Scanning scope, identification, assessment, and remediation
- B. Assessment, identification, scanning scope, and remediation
- C. Identification, scanning scope, assessment, and remediation
- D. Assessment, scanning scope, identification, and remediation

Answer: (SHOW ANSWER)

The proper order is to first define the scanning scope, then identify vulnerabilities, assess their impact, and finally apply remediation.

NEW QUESTION: 145

A company wants to implement a work environment that will have low operational overhead and highly accessible enterprise resource planning, email, and data resources. Which of the following cloud service models should the company implement?

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

Answer: (SHOW ANSWER)

A company that requires low operational overhead and highly accessible enterprise resources would benefit from implementing Software as a Service (SaaS). SaaS provides access to applications hosted in the cloud, eliminating the need for internal infrastructure or application development, which aligns with the requirement of having low operational overhead.

NEW QUESTION: 146

A cloud engineer is troubleshooting an application that consumes multiple third-party REST APIs.

The application is randomly experiencing high latency. Which of the following would best help determine the source of the latency?

- A. Configuring centralized logging to analyze HTTP requests
- B. Running a flow log on the network to analyze the packets
- C. Configuring an API gateway to track all incoming requests

D. Enabling tracing to detect HTTP response times and codes

Answer: ([SHOW ANSWER](#))

Enabling tracing in the application can help determine the source of high latency by providing detailed information on HTTP request and response times, as well as response codes. This can identify which API calls are experiencing delays and contribute to overall application latency, allowing for targeted troubleshooting and optimization.

NEW QUESTION: 147

A software development team decides to use a code repository. Which of the following is the most likely reason for this decision?

- A.** Project management
- B.** Version management
- C.** Program management
- D.** Change management

Answer: ([SHOW ANSWER](#))

A code repository is primarily used for version management, allowing developers to track, control, and manage changes to source code over time while enabling collaboration.

NEW QUESTION: 148

Which of the following integration systems would best reduce unnecessary network traffic by allowing data to travel bidirectionally and facilitating real-time results for developers who need to display critical information within applications?

- A.** REST API
- B.** RPC
- C.** GraphQL
- D.** Web sockets

Answer: ([SHOW ANSWER](#))

Web sockets provide a full-duplex communication channel over a single, long-lived connection, allowing data to flow bidirectionally between a client and a server. This is ideal for real-time applications where developers need to display critical information without unnecessary network overhead, as it reduces the need for repetitive HTTP requests and allows for more efficient, instantaneous data updates and interactions.

NEW QUESTION: 149

Which of the following provides secure, private communication between cloud environments without provisioning additional hardware or appliances?

- A.** VPN
- B.** VPC peering
- C.** BGP
- D.** Transit gateway

Answer: ([SHOW ANSWER](#))

VPC peering provides secure, private communication between cloud environments without the need for provisioning additional hardware or appliances. It allows direct network connectivity between two Virtual Private Clouds (VPCs), enabling resources in either VPC to communicate with each other using private IP addresses.

NEW QUESTION: 150

Which of the following cloud-native architecture designs is the most easily maintained, decentralized, and decoupled?

- A.** Monolithic
- B.** Hybrid cloud

- C. Mainframe
- D. Microservices

Answer: ([SHOW ANSWER](#))

Microservices architecture is a design approach to build a single application as a suite of small services, each running in its own process and communicating with lightweight mechanisms, often an HTTP resource API. This design is decentralized and each service is fully decoupled, allowing for easier maintenance and scaling. Each microservice is built around a specific business capability and can be deployed independently, unlike monolithic architectures that are typically centralized and less flexible.

NEW QUESTION: 151

Which of the following describes what CRUD is typically used for?

- A. Relational databases
- B. Time series databases
- C. Graph databases
- D. NoSQL databases

Answer: ([SHOW ANSWER](#))

CRUD stands for Create, Read, Update, Delete, and it is most commonly used for interacting with relational databases. These operations form the basis of persistent storage manipulation in most applications that use a database to store data.

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NEW QUESTION: 152

An organization is concerned that its IT help desk is receiving too many calls about password resets for various internal and external applications. The organization implements a SSO solution.

Which of the following technologies should the cloud architect at the organization recommend implementing?

- A. SAML
- B. LDAP
- C. Kerberos
- D. MFA

Answer: ([SHOW ANSWER](#))

SAML (Security Assertion Markup Language) enables Single Sign-On (SSO) by allowing authentication and authorization data to be exchanged between an identity provider and service providers, reducing the need for multiple passwords and password reset calls.

NEW QUESTION: 153

A systems engineer tries to mount an iSCSI LUN to a VM host in a data center, but the host does not discover any iSCSI targets. A sample of the switch configuration is shown in the following image:

GigabitEthernet 1/0/1

description "Development Network Uplink to VM Host A"

access vlan 24

```
GigabitEthernet 1/0/2
description "Storage Network Uplink to VM Host A"
access vlan 24
spanning-tree portfast
mtu 9216
GigabitEthernet 1/0/3
description "Lights-Out Management VM Host A"
access vlan 20
spanning-tree portfast
GigabitEthernet 1/0/4
description "SAN Management Controller A"
access vlan 20
GigabitEthernet 1/0/5
description "SAN Management Controller B"
access vlan 20
spanning-tree portfast
GigabitEthernet 1/0/6
description "SAN iSCSI Controller A"
access vlan 25
spanning-tree portfast
GigabitEthernet 1/0/7
description "SAN iSCSI Controller B™"
access vlan 25
spanning-tree portfast
```

Which of the following configuration changes would most likely resolve the discovery issues?

- A. Disabling Gigabit Ethernet 1/0/7
- B. Changing the MTU on Gigabit Ethernet 1/0/2
- C. Changing the access VLAN for Gigabit Ethernet 1/0/2 to 25
- D. Enabling jumbo frames on Gigabit Ethernet 1/0/6 and Gigabit Ethernet 1/0/7

Answer: ([SHOW ANSWER](#))

The VM host's storage uplink (Gi1/0/2) is in VLAN 24, while the iSCSI controllers (Gi1/0/6 and Gi1/0/7) are in VLAN 25. iSCSI target discovery requires Layer 2 connectivity on the same VLAN/subnet; moving Gi1/0/2 to VLAN 25 restores discovery.

NEW QUESTION: 154

An engineer wants to scale several cloud workloads on demand. Which of the following approaches is the most suitable?

- A. Load
- B. Scheduled
- C. Manual
- D. Trending

Answer: ([SHOW ANSWER](#))

Load scaling is the most suitable approach for scaling several cloud workloads on demand. It automatically adjusts the number of active servers in a cloud environment based on the current load or traffic, ensuring that resources are efficiently utilized to meet demand without manual intervention. This approach helps maintain optimal performance and availability, particularly during unexpected surges in workload or traffic.

NEW QUESTION: 155

A systems administrator needs to configure a script that will monitor whether an application is healthy and stop the VM if an unsuccessful code is returned. Which of the following scripts should the systems administrator use to achieve this goal?

A. RESPONSE_CODE }

string APP_URL

bool RESPONSE_CODE

string VM

health checker (APP_URL, VM) {

if [http_probe (APP_URL) == 200] {

echo RESPONSE_CODE }

else{

stop (VM)

echo

B. else{

echo

string APP_URL

float RESPONSE_CODE

string VM

health_checker (APP_URL, VM) {

if [http_probe (APP_URL) == 200] {

stop (RESPONSE_CODE)

echo VM }

stop (VM)

RESPONSE CODE }

C. else{

echo

string APP_URL

int RESPONSE CODE

string VM

health checker (APP_URL, VM) {

if [http_probe (APP_URL) == 200] {

echo RESPONSE_CODE }

stop (VM)

RESPONSE_CODE }

D. else{

echo

string APP_URL

```
int RESPONSE_CODE
string VM
health_checker (APP_URL, VM) {
  if [ http_probe (VM) == 200 ] {
    stop (VM)
    echo RESPONSE_CODE }
  RESPONSE_CODE }
```

Answer: ([SHOW ANSWER](#))

Script A is designed to monitor the health of an application by checking its response code. If the application returns a 200 (OK) status, it indicates that the application is healthy. Otherwise, the script will stop the VM to address the issue, which is a common approach to handle unhealthy application states in automated environments. This script effectively achieves the goal of monitoring application health and taking corrective action when an unsuccessful code is returned.

NEW QUESTION: 156

A cloud deployment uses three different VPCs. The subnets on each VPC need to communicate with the others over private channels. Which of the following will achieve this objective?

- A.** Deploying a load balancer to send traffic to the private IP addresses
- B.** Creating peering connections between all VPCs
- C.** Adding BGP routes using the VPCs' private IP addresses
- D.** Establishing identical routing tables on all VPCs

Answer: ([SHOW ANSWER](#))

To allow subnets on different VPCs to communicate with each other over private channels, the cloud engineer should create peering connections between all the VPCs. VPC Peering allows networks to connect and route traffic using private IP addresses without the need for gateways, VPN connections, or separate physical hardware.

NEW QUESTION: 157

A company has one cloud-based web server that is prone to downtime during maintenance.

Which of the following should the cloud engineer add to ensure high availability?

- A.** A redundant web server behind a load balancer
- B.** A backup cloud web server
- C.** A secondary network link to the web server
- D.** An autoscaling feature on the web server

Answer: ([SHOW ANSWER](#))

Adding a redundant web server behind a load balancer is the solution that will ensure high availability. If one server goes down for maintenance, the other can take over, ensuring that the web service remains available without interruption.

NEW QUESTION: 158

Which of the following vulnerability management concepts is best defined as the process of discovering vulnerabilities?

- A.** Scanning
- B.** Assessment
- C.** Remediation
- D.** Identification

Answer: ([SHOW ANSWER](#))

Identification is the process of discovering or detecting vulnerabilities in systems, applications, or networks. It involves actively looking for and recognizing vulnerabilities before they are assessed or remediated.

NEW QUESTION: 159

A cloud solutions architect needs to deploy a simple, public-facing website with the following requirements:

- Cost-effective
- Highly available
- Self-healing
- Secure

Which of the following will be the most appropriate template to use?

A.

```
virtual_machine:
  name: website
  size: small
  firewall:
    - website-firewall
  autoscaling: enabled
    min: 2
    max: 2
  firewall:
    name: website-firewall
    rules:
      - 1:
        direction: inbound
        source: 0.0.0.0/0
        port: 22-443
```

```
virtual_machine:
  name: website
  size: small, medium, large
  firewall:
    - website-firewall
      management-access
  lifeCycle: spot

firewall:
  name: website-firewall
  rules:
    1:
      direction: inbound
      port: 443
      source: 0.0.0.0/0

firewall:
  name: management-access
  rules:
    1:
      direction: inbound
      port: 22
      source: 192.168.0.0/24
```

B.

```
virtual_machine:
  name: website
  size: small
  firewall:
    - website-firewall
      management-access
  replicas: 2
  lifeCycle: on-Demand
  autoscaling: disabled
```

```
firewall:
  name: website-firewall
  rules:
    - 1:
      direction: inbound
      port: 443
      source: 0.0.0.0/0
```

```
firewall:
  name: management-access
  rules:
    - 1:
      direction: inbound
      port: 22
      source: 192.168.0.0/24
```

c.


```

virtual_machine:
  name: website
  size: small, medium
  firewall:
    - website-firewall
      management-access
  autoscaling: enabled
    min: 2
    max: 2
  lifeCycle: spot

firewall:
  name: website-firewall
  rules:
    1:
      direction: inbound
      port: 443
      source: 0.0.0.0/0

firewall:
  name: management-access
  rules:
    - 1:
      direction: inbound
      port: 22
      source: 192.168.0.0/24

```

D.

Answer: ([SHOW ANSWER](#))

Cost-effective: The template specifies spot instances, which are cheaper than on-demand instances.

Highly available: Autoscaling is enabled with a minimum of 2 instances, ensuring redundancy.

Self-healing: Autoscaling ensures instances are replaced if they fail.

Secure: The firewall rules allow HTTPS (port 443) from any source for public access while restricting SSH (port 22) to only 192.168.0.0/24, preventing unrestricted administrative access.

This template aligns best with the requirements of a public-facing, secure, self-healing, and cost-effective website deployment.

NEW QUESTION: 160

A security team recently hired multiple interns who all need the same level of access. Which of the following controls should the security team implement to provide access to the cloud environment with the least amount of overhead?

- A. MFA
- B. Discretionary access

- C. Local user access
- D. Group-based access control

Answer: ([SHOW ANSWER](#))

Implementing group-based access control is the most efficient way to provide access to multiple interns who require the same level of access. This method allows the security team to assign permissions to a group rather than to individual user accounts, thereby reducing the administrative overhead involved in managing access rights for each intern individually.

NEW QUESTION: 161

Which of the following models will best reduce the cost of running short-term, non-critical workloads?

- A. Pay-as-you-go
- B. Spot Instance
- C. Dedicated host
- D. Reserved

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 162

A manager wants information about which users signed in to a certain VM during the past month.

Which of the following can the cloud administrator use to obtain this information?

- A. Retention
- B. Alerting
- C. Aggregation
- D. Collection

Answer: ([SHOW ANSWER](#))

To obtain information about which users signed in to a certain VM during the past month, a cloud administrator can use log collection. Log collection involves gathering and storing logs from various sources, including VMs, to provide historical data on system access and activity, which can then be analyzed to identify user login instances.

NEW QUESTION: 163

A log-parsing application requires significant processing power to ingest the logs streaming from web servers. The engineering team presents the cloud architect with four proposals using the same underlying hardware. Which of the following should the cloud architect select in order to minimize the impact of an instance failure while keeping the cost as low as possible?

- A. Four instances of 4vCPU, 8GB RAM, 80GB SSD
- B. Four instances of 4vCPU, 8GB RAM, 80GB HDD
- C. Two instances of 8vCPU, 16GB RAM, 80GB SSD
- D. Two instances of 8vCPU, 16GB RAM, 80GB HDD

Answer: ([SHOW ANSWER](#))

Choosing four instances with the given specifications would distribute the load and reduce the impact of any single instance failure. Using SSDs over HDDs would provide faster data processing capabilities which is crucial for a log-parsing application. This setup also retains cost efficiency by not over-provisioning resources.

NEW QUESTION: 164

Which of the following best describes a program in the context of project management?

- A. It is a group of unrelated projects within an organization
- B. It is used to represent the daily activities of multiple projects
- C. It is a consolidation of related projects with a common goal

D. It provides the definition of a project workload

Answer: ([SHOW ANSWER](#))

A program is a group of related projects managed in a coordinated way to achieve benefits not available if managed separately. This is different from a portfolio (broader grouping, not necessarily related) or daily activities (operational work).

NEW QUESTION: 165

A cloud administrator is looking at the company's cloud services bill for the previous month. The administrator notices on the billing dashboard that certain resources are not being billed to any particular department. Which of the following actions will help correct this billing issue?

- A. Check the utilization of the resources.
- B. Modify the chargeback details of the consumer.
- C. Add the resources to the consumer monitoring group.
- D. Modify the tags for all the unmapped resources.

Answer: ([SHOW ANSWER](#))

In order to correct the billing issue where certain resources are not being billed to any particular department, the cloud administrator should ensure that all the resources are properly tagged with the correct department or cost center information. This information is used by the billing system to accurately allocate costs to the appropriate departments.

NEW QUESTION: 166

A project manager is taking notes along with gathering feedback about a prior project in order to consider known issues with a project enhancement. Which of the following best describes the plan that the project team is working on?

- A. A plan for capturing issues and conflicts in a project's knowledge base
- B. A plan for avoiding potential issues that may arise during project execution
- C. A plan for documenting the outcomes of the project
- D. A plan for addressing and resolving identified issues once the project has been completed

Answer: ([SHOW ANSWER](#))

The team is leveraging lessons learned to create a preventive plan for avoiding issues in the upcoming project enhancement. This falls under risk management and compliance, ensuring previous failures do not repeat.

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NEW QUESTION: 167

A system surpasses 75% to 80% of resource consumption. Which of the following scaling approaches is the most appropriate?

- A. Trending
- B. Manual
- C. Load
- D. Scheduled

Answer: ([SHOW ANSWER](#))

Load scaling is the most appropriate approach when a system surpasses 75% to 80% of resource consumption. This method involves adjusting resources dynamically in response to the current load, ensuring the system can handle increased demand without performance degradation. Load scaling can be automatic, allowing systems to scale up or down based on predefined metrics like CPU usage, memory, or network traffic, providing an efficient way to manage resources and maintain optimal performance.

NEW QUESTION: 168

A company has solid, validated border protection including a next-generation firewall and IPS.

However, compromises and breaches continue. Which of the following is the best way to improve the company's security controls and reduce the number of incidents?

- A. Assess the border protection assets against a CIS benchmark and apply recommendations.
- B. Execute a network scan on the border protection and close ports that can be used by attackers.
- C. Shift the focus from border protection to a Zero Trust architecture focused on identities.
- D. Include a WAF on the network border, increasing protection and adopting security in layers.

Answer: C ([LEAVE A REPLY](#))

Even with strong border protection, attackers often bypass perimeter defenses through phishing, stolen credentials, or insider threats. Adopting a Zero Trust architecture improves security by continuously verifying users, devices, and identities regardless of location, significantly reducing incidents beyond the network border.

NEW QUESTION: 169

An IT security team wants to ensure that the correct parties are informed when a specific user account is signed in. Which of the following would most likely allow an administrator to address this concern?

- A. Creating an alert based on user sign-in criteria
- B. Aggregating user sign-in logs from all systems
- C. Enabling the collection of user sign-in logs
- D. Configuring the retention of all sign-in logs

Answer: (SHOW ANSWER)

To ensure that the correct parties are informed when a specific user account is signed in, the best action is to create an alert based on user sign-in criteria. This alert can notify administrators or security personnel when the specified event occurs.

NEW QUESTION: 170

A bank informs an administrator that changes must be made to backups for long-term reporting purposes. Which of the following is the most important change the administrator should make to satisfy these requirements?

- A. Location of the backups
- B. Type of the backups
- C. Retention of the backups
- D. Schedule of the backups

Answer: C ([LEAVE A REPLY](#))

For long-term reporting purposes, the most critical aspect to consider is the retention period of the backups. This is because the bank will likely require access to historical data for audit, compliance, and reporting purposes. The retention policy will need to ensure that backups are kept for the required duration, which may be several years depending on regulatory and business needs. Adjusting the retention policy will help ensure that the necessary data is preserved for as long as it is needed, without unnecessary data accumulation that could lead to higher costs and management complexity.

NEW QUESTION: 171

Which of the following is part of software change control?

- A. Rollback plans
- B. Maintenance windows
- C. Validation checks
- D. Requirements definition

Answer: ([SHOW ANSWER](#))

A key element of change control is having a rollback plan, which allows recovery to a previous stable state if the change causes instability. This is part of operational support to maintain service availability and minimize downtime during updates.

NEW QUESTION: 172

Which of the transfer when comparing a multiregional to a single-region cloud platform design?

- A. Compliance and regulation
- B. Power and cooling
- C. Network
- D. Storage

Answer: ([SHOW ANSWER](#))

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