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Domain 1: Security Architecture (22 Questions)

1. What is the primary purpose of a Root of Trust (RoT) in a hardware security module (HSM)?

ANSWER ✓ A Root of Trust is a secure, hardened source that provides critical cryptographic functions (like key generation and storage) that the rest of a system can trust. It serves as an immutable foundation for a chain of trust, ensuring that all subsequent security operations are based on a verified and secure component.

2. When would you recommend implementing a Trusted Platform Module (TPM) vs. a Hardware Security Module (HSM)?

ANSWER ✓ A TPM is best for platform authentication and integrity verification (e.g., secure boot, disk encryption with BitLocker) on a single device like a laptop or server. An HSM is a more robust, often network-attached device designed for high-volume cryptographic operations, central key management, and securing transactions in an enterprise or data center environment.

3. Describe the security difference between a Type 1 and Type 2 hypervisor.

ANSWER ✓ A Type 1 hypervisor (or "bare-metal") runs directly on the host's hardware, eliminating the attack surface of a host operating system. A Type 2 hypervisor runs as an application on a host OS, making it potentially vulnerable to any compromise of the underlying host operating system. Type 1 is inherently more secure for production environments.

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WGU Cloud-Deployment-and-Operations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Monitoring, Logging, and Issue Remediation: This section of the exam measures skills of Cloud Engineers and covers responding to issues identified through AWS monitoring and logging tools. Candidates must show they can interpret system outputs, identify problems, and take corrective actions to maintain smooth cloud operations.

Topic 2	<ul style="list-style-type: none"> • Optimizing Cost and Performance Baselines: This section of the exam measures skills of Cloud Operations engineers and covers determining the best balance between cost and performance using AWS services. It involves selecting suitable configurations and resource types to maintain efficient operations while avoiding unnecessary spending.
Topic 3	<ul style="list-style-type: none"> • Configuring Cloud Network Connectivity: This section of the exam measures skills of Cloud Engineers and covers network connectivity within AWS environments, including setup, troubleshooting, and corrective actions. Candidates must show they can manage cloud networking in a way that ensures reliable communication between systems and services.
Topic 4	<ul style="list-style-type: none"> • Ensuring Scalability, Elasticity, and Backup Readiness: This section of the exam measures skills of Cloud Operations Specialists and covers implementing AWS features that support scalability, elasticity, and backup readiness. It focuses on enabling cloud systems to handle fluctuating workloads while maintaining continuity and ensuring critical data remains recoverable.
Topic 5	<ul style="list-style-type: none"> • Automating Cloud Provisioning and Maintenance: This section of the exam measures skills of Cloud Operations engineers and covers the ability to automate provisioning tasks and ongoing maintenance activities. It emphasizes using automation tools to streamline cloud resource creation and lifecycle management. Students must demonstrate they can apply automation to maintain efficient cloud operations.

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WGU Cloud Deployment and Operations Sample Questions (Q14-Q19):

NEW QUESTION # 14

(An administrator plans to deploy a database to AWS that supports the following: multiple Availability Zones, a standby database instance that provides failover support, a database instance that allows only read-only connections. Which two database solutions should the administrator use? Choose 2 answers.)

- A. Amazon Aurora DB cluster with multi-master replication
- B. Amazon Aurora DB instance with Aurora Replica
- C. Amazon RDS Multi-AZ DB cluster
- D. Amazon RDS Multi-AZ DB instance

Answer: B,D

Explanation:

To meet the requirements, the administrator should use an Amazon RDS Multi-AZ DB instance for multiple Availability Zones and failover support, and an Amazon Aurora DB instance with Aurora Replica for a read-only connection. The RDS Multi-AZ configuration automatically provisions a standby instance in a different AZ for failover, while Aurora Replicas provide read-only instances for scaling read traffic. The WGU Cloud Deployment and Operations Study Guide (Section 7.1, RDS and Aurora) states, "RDS Multi-AZ deploys a standby instance across AZs for failover, and Aurora Replicas are read-only instances that enhance performance by offloading read traffic from the primary instance." Options A and D are incorrect as multi-master replication and Multi-AZ clusters do not align with the read-only requirement.

NEW QUESTION # 15

(An administrator needs to set up self-managed permissions for AWS CloudFormation StackSet operations. Which two roles should be created in the administrator account and in the target accounts? Choose 2 answers.)

- A. In the administrator account, create an IAM role named `AWSCloudFormationStackSetExecutionRole`.
- B. In each target account, create a service role named `AWSCloudFormationStackSetExecutionRole` that trusts the administrator account.
- C. In the administrator account, create an IAM role named `AWSCloudFormationStackSetAdministrationRole`.
- D. In each target account, create a service role named `AWSCloudFormationStackSetAdministrationRole` that trusts the administrator account.

Answer: B,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To set up self-managed permissions for CloudFormation StackSet operations, two roles are required: in the administrator account, create an IAM role named `AWSCloudFormationStackSetAdministrationRole` to manage StackSet operations, and in each target account, create a service role named `AWSCloudFormationStackSetExecutionRole` that trusts the administrator account to execute the stacks. The WGU Cloud Deployment and Operations Study Guide (Section 5.4, StackSets) states, "For self-managed permissions, the administrator account requires the `AWSCloudFormationStackSetAdministrationRole`, while each target account needs the `AWSCloudFormationStackSetExecutionRole` with a trust relationship to the administrator account for stack deployment." Roles B and D are incorrectly named or misplaced.

NEW QUESTION # 16

(An administrator is unable to make an AMI public. What is the cause?)

- A. Bookmark is absent
- B. Boot volume is encrypted
- C. Legacy BIOS boot mode is used
- D. Paravirtual virtualization is used

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The inability to make an AMI public is caused by an encrypted boot volume. AWS does not allow AMIs with encrypted EBS snapshots to be shared publicly due to security constraints; sharing is limited to specific AWS accounts. The WGU Cloud Deployment and Operations Study Guide (Section 6.3, AMI Management) states, "An AMI cannot be made public if its boot volume is encrypted; encryption restricts sharing to authorized accounts only, requiring decryption keys to be managed separately." Legacy BIOS, paravirtual virtualization, and the absence of a bookmark do not impact AMI sharing.

NEW QUESTION # 17

(A company has deployed an application to AWS and a standby instance to its on-premises data center. The on-premises infrastructure is a scaled-down version of the AWS infrastructure. Which routing policy in Route 53 will allow the company to send 75% of the load to AWS and the remaining 25% to its on-premises infrastructure?)

- A. Simple routing policy
- B. Weighted routing policy
- C. Failover routing policy
- D. Geolocation routing policy

Answer: B

Explanation:

The weighted routing policy in Amazon Route 53 allows the company to distribute traffic with specific percentages, such as 75% to AWS and 25% to the on-premises infrastructure, by assigning weights to each resource record. This enables load balancing across

hybrid environments. The WGU Cloud Deployment and Operations Study Guide (Section 3.1, Route 53 Routing Policies) states, "Weighted routing policy assigns weights to resource record sets (e.g., 75 for AWS, 25 for on-premises), controlling the percentage of traffic directed to each endpoint." Geolocation, failover, and simple policies do not support percentage-based traffic splitting.

NEW QUESTION # 18

(What is used to change stacks across multiple accounts and Regions in a single operation?)

- A. StackSets
- B. Stack policies
- C. StackInstance
- D. Nested stacks

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

StackSets are used to change stacks across multiple AWS accounts and regions in a single operation, enabling centralized management of infrastructure deployments. StackSets allow administrators to create, update, or delete stacks consistently across specified accounts and regions. The WGU Cloud Deployment and Operations Study Guide (Section 5.4, StackSets) states, "StackSets provide the capability to manage and update stacks across multiple accounts and regions with a single operation, streamlining multi-region deployments." StackInstance, nested stacks, and stack policies do not support this multi-account, multi-region functionality.

NEW QUESTION # 19

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