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WGU D282: Cloud Foundations Exam 2025/2026

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Curriculum

1. What are the key differences between Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) in cloud computing?

Answer:

IaaS provides virtualized computing resources over the internet, allowing users to manage operating systems, storage, and applications themselves. PaaS, on the other hand, offers a platform with tools and services to develop, test, and deploy applications without managing the underlying infrastructure directly.

2. How does the pay-as-you-go model in cloud computing benefit organizations financially?

Answer:

The pay-as-you-go model allows businesses to pay only for the resources they actually use, which helps reduce capital expenditure. This model supports better budget management, reduces wasteful spending, and offers flexibility in scaling resources based on real-time demand.

3. What is the shared responsibility model in cloud security and why is it important?

Answer:

The shared responsibility model outlines the division of security tasks between the cloud provider and the customer. While the provider secures the infrastructure, the customer secures their data and applications. This model ensures clarity in security roles and reduces vulnerabilities.

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

Topic	Details
Topic 1	<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 2	<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.
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">Cloud Service Deployment and Management: This section of the exam measures skills of Cloud Engineers and covers the technical knowledge required to deploy, manage, and operate cloud services. It focuses on understanding stability, scalability, backup processes, recovery methods, and general deployment practices. Candidates are expected to show they can handle provisioning, monitoring, and connectivity tasks needed to support cloud environments.
Topic 5	<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 6	<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.

WGU Cloud Deployment and Operations Sample Questions (Q28-Q33):

NEW QUESTION # 28

(A company that uses five Elastic IP addresses does not want to request more from AWS. Which solution should be used to route requests to a healthy endpoint?)

- A. Use Systems Manager to update endpoints
- B. Edit the route table for the VPC
- C. Register a DNS name to an auto-assigned public IP address
- D. Adjust the TTL of the IP packets

Answer: C

Explanation:

To route requests to a healthy endpoint without requesting additional Elastic IP addresses, the company should register a DNS name to an auto-assigned public IP address using a service like Route 53. This leverages dynamic DNS to distribute traffic, reducing reliance on fixed EIPs. The WGU Cloud Deployment and Operations Study Guide (Section 3.1, Route 53) states, "Registering a DNS name with an auto-assigned public IP in Route 53 allows traffic routing to healthy instances, avoiding the need for additional Elastic IP addresses." TTL adjustment, route table edits, and Systems Manager are not relevant solutions.

NEW QUESTION # 29

(An administrator successfully accesses an EC2 instance via SSH from a local computer then stops it and starts it. Following the restart, the EC2 instance is no longer accessible. Which solution should be used to resolve the issue?)

- A. Add a rule to the security group associated with the NIC of the EC2 instance
- B. Change the port used to connect to EC2 instance
- C. Add a route to the route table associated with the EC2 instance subnet
- D. Change the IP address used to connect to the EC2 instance

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

After stopping and starting an EC2 instance, the public IP address may change (unless an Elastic IP is attached), but the security group rules remain intact. If the instance is no longer accessible via SSH, it's likely due to an inbound rule (e.g., for port 22) not being correctly configured or applied. Adding or verifying a rule in the security group associated with the network interface (NIC) to allow SSH (port 22) from the administrator's IP resolves this. The WGU Cloud Deployment and Operations Study Guide (Section 3.2, Security Groups) states, "Stopping and starting an EC2 instance may require verifying or adding an inbound SSH rule (port 22) in the security group if connectivity is lost due to IP or rule misconfiguration." Route table or IP changes are not the primary issue here.

NEW QUESTION # 30

(A company is using CloudWatch on its EC2 instances. The company needs to determine the number of bytes received by an instance on all network interfaces for proper sizing of the instance. Which metric should the company use?)

- A. NetworkPacketsIn
- B. NetworkPacketsOut
- C. NetworkOut
- D. NetworkIn

Answer: D

Explanation:

The 'NetworkIn' metric in Amazon CloudWatch should be used to determine the number of bytes received by an EC2 instance across all network interfaces, aiding in proper instance sizing based on inbound traffic. The WGU Cloud Deployment and Operations Study Guide (Section 4.1, CloudWatch Metrics) states, "The

'NetworkIn' metric measures the total number of bytes received on all network interfaces of an EC2 instance, providing critical data for sizing decisions to handle inbound traffic effectively." NetworkPacketsIn, NetworkOut, and NetworkPacketsOut measure packet counts or outbound data, which are less relevant for this purpose.

NEW QUESTION # 31

(Which service enables a company to enforce and manage governance rules across multiple AWS accounts?)

- A. Systems Manager
- B. GuardDuty
- C. Control Tower
- D. Security Hub

Answer: C

Explanation:

AWS Control Tower enables a company to enforce and manage governance rules across multiple AWS accounts by setting up a landing zone with preconfigured policies for security, compliance, and operations. It simplifies multi-account management. The WGU Cloud Deployment and Operations Study Guide (Section 6.5, Control Tower) states, "Control Tower provides a centralized solution to establish and enforce governance rules across multiple accounts, using guardrails and a landing zone to ensure compliance with organizational policies." Security Hub, GuardDuty, and Systems Manager do not offer this multi-account governance capability.

NEW QUESTION # 32

(A company is using Route 53 for Domain Name System (DNS) hosting. The company requires a zone that should only be accessible from instances in a Virtual Private Cloud (VPC). Which type of hosted zone should be used?)

- A. DNS Zone
- B. Public Hosted Zone
- C. Lightsail DNS Zone
- D. Private Zone

Answer: D

Explanation:

A Private Hosted Zone in Amazon Route 53 should be used to restrict DNS resolution to instances within a Virtual Private Cloud (VPC), ensuring that the zone is only accessible internally. This isolates DNS services from public internet access. The WGU Cloud Deployment and Operations Study Guide (Section 3.1, Route 53 Hosted Zones) states, "A Private Hosted Zone in Route 53 limits DNS resolution to resources within a specified VPC, preventing external access and enhancing security for internal services." Public Hosted Zones, DNS Zones, and Lightsail DNS Zones do not provide this VPC-specific restriction.

NEW QUESTION # 33

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