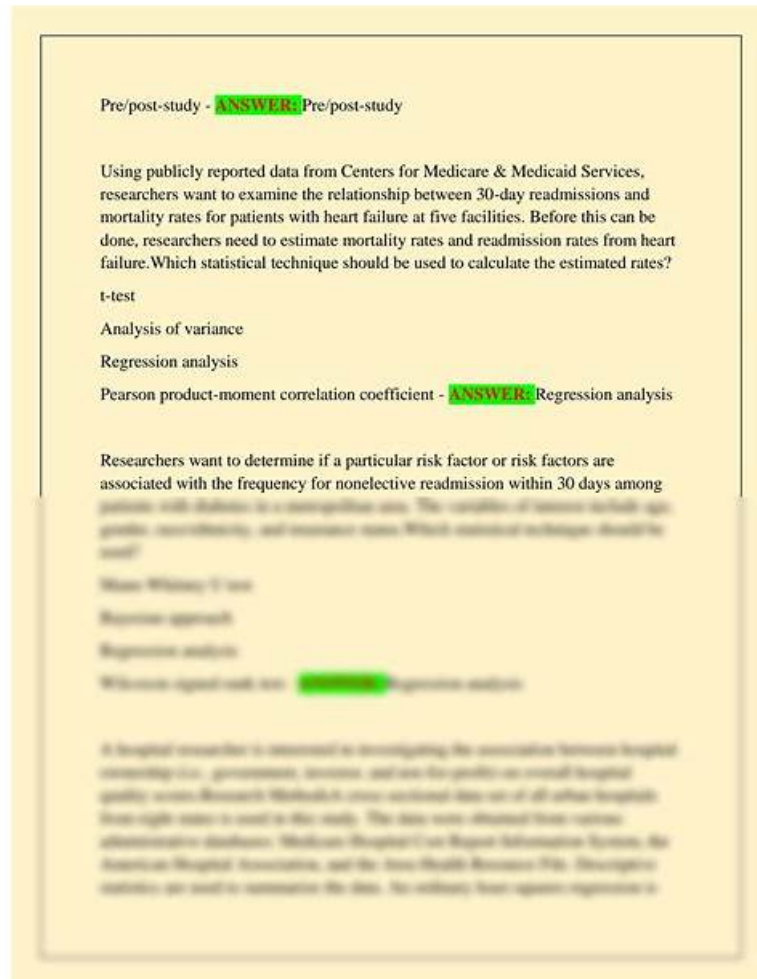


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WGU Cloud-Deployment-and-Operations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Implementing Cloud Security and Compliance: This section of the exam measures skills of Cloud Engineers and covers the use of AWS security tools to protect data and infrastructure. Candidates must demonstrate awareness of compliance needs and the ability to apply protective controls that align with industry and organizational standards.

Topic 2	<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 3	<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 4	<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 5	<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 6	<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.

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WGU Cloud Deployment and Operations Sample Questions (Q53-Q58):

NEW QUESTION # 53

(A company builds an application that renders 3D movies for its users. The application does this by spawning a fleet of instances that each take a slice of the workload and then render a few hundred frames in around 30 minutes. If processing on a node is interrupted, the work can be moved to other running nodes. The cost to users is based on the underlying AWS cost plus a margin. Which EC2 instance type is most suitable to run workload pattern at the lowest cost?)

- A. Reserved Instance
- **B. Spot Instance**
- C. Dedicated Instance
- D. On-Demand Instance

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Spot Instances are the most suitable EC2 instance type for this workload pattern, offering the lowest cost for short, interruptible tasks like 3D rendering, where work can be redistributed if interrupted. This aligns with the company's cost-plus pricing model. The WGU Cloud Deployment and Operations Study Guide (Section

7.3, EC2 Instance Types) states, "Spot Instances provide significant cost savings (up to 90% off On-Demand) for fault-tolerant, short-term workloads like rendering, where interruptions can be handled by redistributing tasks to other nodes." On-Demand, Dedicated, and Reserved Instances are more expensive and less flexible for this use case.

NEW QUESTION # 54

(An administrator deploys an EC2 instance with the public IP address 54.18.127.233 into a newly created VPC in us-west-2. The EC2 instance must be accessible via ec2-public-54.18.127.233.us-west-2.compute.amazonaws.com from the internet. Which solution should be used?)

- A. Assign a resource tag to the EC2 instance
- **B. Set the VPC attribute enableDnsHostnames to true**
- C. Set the VPC attribute enableDnsSupport to false
- D. Assign a resource-based name to the EC2 instance

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To make the EC2 instance accessible via a public DNS hostname like ec2-public-54.18.127.233.us-west-2.

compute.amazonaws.com, the administrator must set the VPC attribute enableDnsHostnames to true. This enables the automatic assignment of public DNS hostnames to instances with public IP addresses in the VPC.

The WGU Cloud Deployment and Operations Study Guide (Section 3.2, VPC Configuration) states, "Setting enableDnsHostnames to true in the VPC configuration ensures that EC2 instances with public IPs receive a public DNS hostname (e.g., ec2-public-`<ip>`.`<region>`.compute.amazonaws.com), facilitating internet accessibility." Resource tags, disabling DNS support, and resource-based names do not enable this functionality.

NEW QUESTION # 55

(A company uses SQS and EC2 to convert videos uploaded by users. In the evenings, videos take several hours to convert when they normally take minutes. The user base is expected to grow a hundredfold in the next 12 months. Which solution should be used to reduce the conversion delays?)

- A. Implement a dead-letter queue
- **B. Configure an alarm to scale the fleet based on queue length**
- C. Use spot instances instead of on-demand
- D. Switch from t2.medium to t2.xlarge instance type

Answer: B

Explanation:

To reduce conversion delays caused by increased demand, the company should configure a CloudWatch alarm to scale the EC2 fleet based on the SQS queue length. This auto-scaling approach dynamically adjusts the number of EC2 instances to handle the workload, especially during peak evening hours and anticipated growth. The WGU Cloud Deployment and Operations Study Guide (Section 3.3, Auto Scaling and SQS) explains, "Auto Scaling can be triggered by a CloudWatch alarm monitoring SQS queue depth, ensuring the EC2 fleet scales out to process video conversion tasks efficiently as the queue length increases." Spot instances, dead-letter queues, and instance type upgrades do not directly address dynamic scaling needs.

NEW QUESTION # 56

(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. Private Zone**
- B. Public Hosted Zone
- C. Lightsail DNS Zone
- D. DNS Zone

Answer: A

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 # 57

(What can AWS Config directly invoke to cause remediation of findings?)

- A. CloudWatch alarm
- B. Control Tower guardrail
- **C. Lambda function**
- D. Systems Manager document

Answer: C

Explanation:

AWS Config can directly invoke an AWS Lambda function to cause remediation of findings by triggering automated responses to configuration changes or non-compliant resources. This integration enables real-time corrective actions. The WGU Cloud Deployment and Operations Study Guide (Section 6.1, AWS Config) states, "AWS Config can invoke a Lambda function as a remediation action, allowing automated fixes for non-compliant resources (e.g., terminating unauthorized instances)." Control Tower guardrails, CloudWatch alarms, and Systems Manager documents are not directly invoked by Config for this purpose.

NEW QUESTION # 58

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