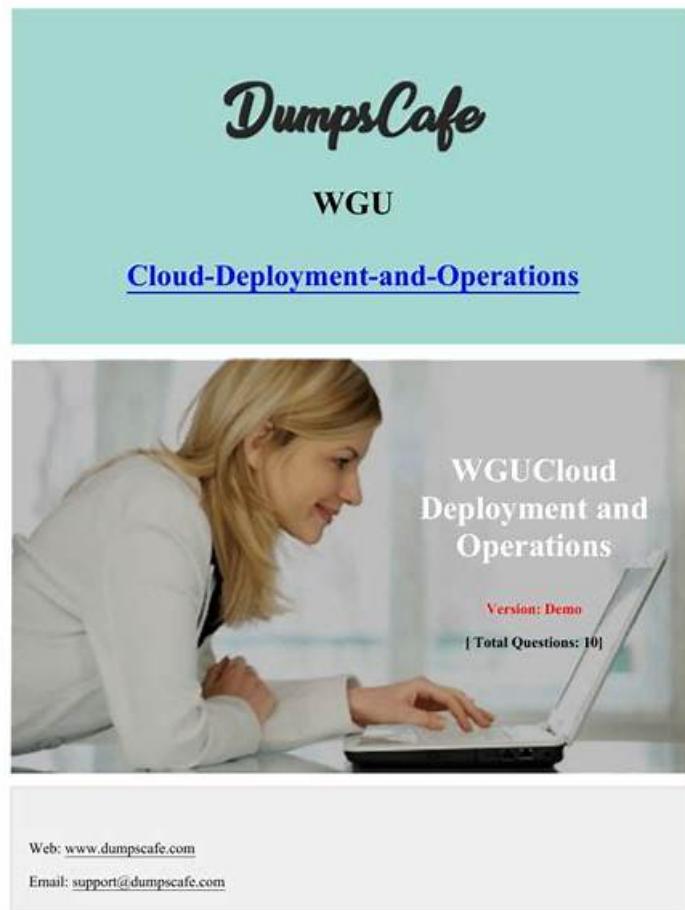


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WGU Cloud-Deployment-and-Operations Exam Syllabus Topics:

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">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"> 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 4	<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 5	<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 (Q49-Q54):

NEW QUESTION # 49

(A company is developing an application with the following requirements: * Amazon EC2 instances must be restricted to Free Tier-eligible types. * Instances of unapproved types must be terminated automatically.

Which two services should be used? Choose 2 answers.)

- A. Systems Manager
- B. Config
- C. Launch Wizard
- D. OpsWorks

Answer: A,B

Explanation:

To meet the requirements of restricting EC2 instances to Free Tier-eligible types and automatically terminating unapproved instances, AWS Systems Manager and AWS Config should be used. Systems Manager can enforce instance compliance through automation documents that monitor and terminate non-compliant instances. AWS Config provides continuous monitoring and evaluation of resource configurations against defined rules, such as those limiting instance types to Free Tier-eligible options (e.g., t2.micro or t3.micro). The WGU Cloud Deployment and Operations Study Guide (Section 6.1, AWS Config and Systems Manager) notes, "AWS Config can be configured with a rule to detect non-Free Tier EC2 instances, while Systems Manager Automation can execute a termination script based on Config findings." OpsWorks and Launch Wizard are not designed for this specific compliance and automation use case.

NEW QUESTION # 50

(A company is using the CloudWatch agent on its EC2 Linux instances. The company needs to determine how long read requests have waited on the instance's I/O for proper sizing of the instance. Which metric should the company use?)

- A. diskio_reads
- B. disk_io_time

- C. diskio_read_bytes
- D. disk_read_ops

Answer: B

Explanation:

The 'disk_io_time' metric, collected by the CloudWatch agent on EC2 Linux instances, measures the total time (in milliseconds) that read and write requests have waited on I/O, helping to assess disk performance for instance sizing. The WGU Cloud Deployment and Operations Study Guide (Section 4.1, CloudWatch Agent Metrics) states, 'The 'disk_io_time' metric, available via the CloudWatch agent, tracks the time spent waiting for I/O operations, providing insight into disk contention for optimizing EC2 instance sizing.' disk_read_ops, diskio_reads, and diskio_read_bytes measure operation counts or bytes, not wait times.

NEW QUESTION # 51

(A company uses KMS for key management. The company has a requirement to ensure that cryptographic material is not used longer than a year. Which solution should be used to meet this requirement with the least amount of effort?)

- A. **Enable automatic key rotation in KMS**
- B. Develop a custom key encryption protocol for KMS
- C. Write a Lambda function to replace keys in KMS
- D. Move keys from KMS to CloudHSM

Answer: A

Explanation:

Enabling automatic key rotation in AWS Key Management Service (KMS) is the least effort solution to ensure cryptographic material is not used longer than a year. KMS automatically rotates the cryptographic material of symmetric customer master keys (CMKs) every 365 days, meeting the requirement without manual intervention. The WGU Cloud Deployment and Operations Study Guide (Section 6.3, KMS) states,

"Automatic key rotation in KMS rotates the backing key material every year for symmetric CMKs, providing a low-effort way to comply with key usage limits." Moving to CloudHSM, custom protocols, or Lambda functions require more effort and complexity.

NEW QUESTION # 52

(What should be configured in Systems Manager to set the error threshold for automation documents?)

- A. **Rate control**
- B. Maintenance windows
- C. Session preferences
- D. Resource group

Answer: A

Explanation:

In AWS Systems Manager, the error threshold for automation documents is configured using rate control.

Rate control allows administrators to define the maximum number of errors or concurrent executions that can occur before an automation task is throttled or stopped, ensuring system stability. The WGU Cloud Deployment and Operations Study Guide (Section 5.1, Systems Manager Automation) explicitly states, "Rate control settings in Automation documents can be used to specify the maximum number of errors allowed during execution, helping to manage error thresholds effectively." Resource groups, session preferences, and maintenance windows do not directly address error thresholds.

NEW QUESTION # 53

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

Answer: C

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 # 54

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