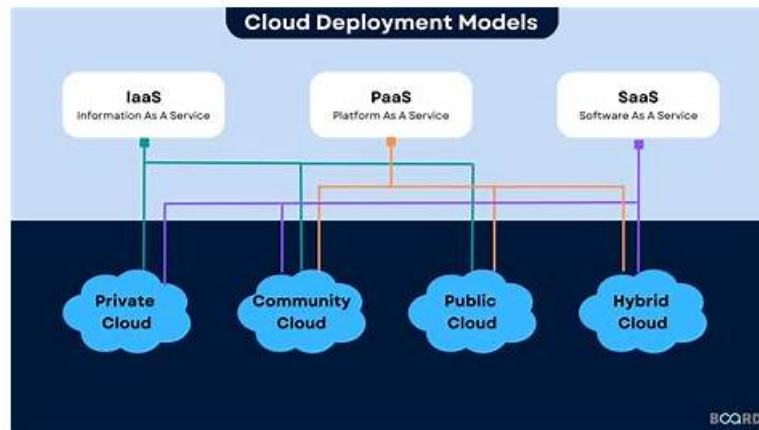


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## WGU Cloud-Deployment-and-Operations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

## WGU Cloud Deployment and Operations Sample Questions (Q54-Q59):

### NEW QUESTION # 54

(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. Failover routing policy
- C. Weighted routing policy
- D. Geolocation routing policy

**Answer: C**

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 # 55

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

**Answer: C,D**

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 # 56

(Which solution is used to protect a server from Layer 7 attacks?)

- A. KMS key rotation
- **B. WAF**
- C. Shield
- D. CloudWatch

**Answer: B**

Explanation:

AWS WAF (Web Application Firewall) is used to protect a server from Layer 7 (application layer) attacks, such as SQL injection or cross-site scripting, by filtering HTTP/HTTPS traffic based on defined rules. The WGU Cloud Deployment and Operations Study Guide (Section 6.2, AWS WAF) states, "WAF protects web applications at Layer 7 by inspecting and blocking malicious requests, such as those involving SQL injection or XSS, when integrated with ALB or CloudFront." Shield protects against DDoS (Layer 3/4), CloudWatch monitors metrics, and KMS key rotation manages encryption, none of which address Layer 7 attacks.

#### **NEW QUESTION # 57**

(A company manages a containerized application by manually deploying AWS compute instances. Which solution should be used to optimize the cost of the application?)

- A. Aurora
- B. EFS
- C. RDS
- **D. Fargate**

**Answer: D**

Explanation:

AWS Fargate should be used to optimize the cost of a containerized application by eliminating the need for manual instance management, as it provides serverless container orchestration that automatically scales and charges only for resource usage. The WGU Cloud Deployment and Operations Study Guide (Section 7.5, Fargate) states, "Fargate optimizes costs for containerized applications by removing the overhead of managing EC2 instances, scaling automatically, and billing based on vCPU and memory usage, reducing manual deployment expenses." Aurora, RDS, and EFS are database or storage solutions not designed for container cost optimization.

#### **NEW QUESTION # 58**

(What is a patch baseline attached to if it is not defined in Patch Manager?)

- **A. Default patch group**
- B. Baseline data set
- C. Accelerate patch baseline
- D. Patch process

**Answer: A**

Explanation:

If a patch baseline is not explicitly defined in Patch Manager, it is attached to the default patch group. This default group applies a preconfigured baseline with AWS-recommended patches, ensuring basic compliance for instances without custom baselines. The WGU Cloud Deployment and Operations Study Guide (Section 5.2, Patch Manager) states, "If no custom patch baseline is defined, instances are associated with the default patch group, which uses AWS-provided baseline settings for automatic patch approval." Options B, C, and D are not valid attachments for patch baselines.

#### **NEW QUESTION # 59**

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