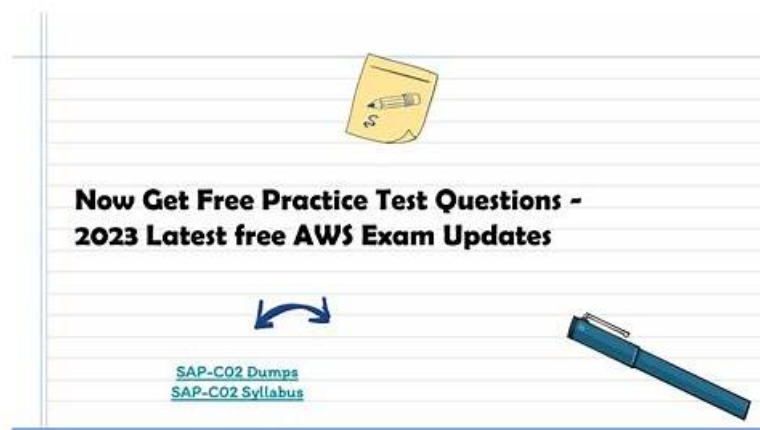


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Amazon SAP-C02 Certification Exam covers a wide range of topics, including advanced architectural principles, complex networking, migration strategies, and cost optimization strategies. Candidates are required to demonstrate their understanding of AWS services such as Amazon EC2, Amazon S3, Amazon RDS, Amazon VPC, Amazon Route 53, and AWS CloudFormation. They are also expected to have a good understanding of security best practices and compliance requirements on AWS.

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## SAP-C02 real questions - Testking real exam - AWS Certified Solutions Architect - Professional (SAP-C02) VCE

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## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q529-Q534):

### NEW QUESTION # 529

An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's dynamic website currently uses an Application Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only. The magazine is expecting a significant spike in internet traffic when the new edition is launched.

Optimal performance is a top priority for the week following the launch.

Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Choose two.)

- A. Ensure the web and application tiers are each in Auto Scaling groups.  
Introduce an AWS Direct Connect connection.  
Deploy the web and application tiers in Regions across the world.
- B. Use an Aurora global database for physical cross-Region replication.  
Use Amazon S3 with cross-Region replication for static content and resources.

Deploy the web and application tiers in Regions across the world.

- C. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region. Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.
- D. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.
- E. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers--web, application, and database--are in private subnets.

**Answer: B,D**

Explanation:

Aurora Global DB is a must & Latency Based routing & Cloud front.

### NEW QUESTION # 530

A company is updating an application that customers use to make online orders. The number of attacks on the application by bad actors has increased recently.

The company will host the updated application on an Amazon Elastic Container Service (Amazon ECS) cluster. The company will use Amazon DynamoDB to store application data. A public Application Load Balancer (ALB) will provide end users with access to the application. The company must prevent prevent attacks and ensure business continuity with minimal service interruptions during an ongoing attack.

Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO.)

- A. Deploy an AWS WAF web ACL that includes an appropriate rule group. Associate the web ACL with the Amazon CloudFront distribution.
- B. Create an Amazon CloudFront distribution with the ALB as the origin. Add a custom header and random value on the CloudFront domain. Configure the ALB to conditionally forward traffic if the header and value match.
- C. Deploy the application in two AWS Regions. Configure Amazon Route 53 to route to both Regions with equal weight.
- D. Configure Amazon ElastiCache to reduce overhead on DynamoDB.
- E. Configure auto scaling for Amazon ECS tasks. Create a DynamoDB Accelerator (DAX) cluster.

**Answer: A,B**

Explanation:

The company should create an Amazon CloudFront distribution with the ALB as the origin. The company should add a custom header and random value on the CloudFront domain. The company should configure the ALB to conditionally forward traffic if the header and value match. The company should also deploy an AWS WAF web ACL that includes an appropriate rule group. The company should associate the web ACL with the Amazon CloudFront distribution. This solution will meet the requirements most cost-effectively because Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment<sup>1</sup>. By creating an Amazon CloudFront distribution with the ALB as the origin, the company can improve the performance and availability of its application by caching static content at edge locations closer to end users. By adding a custom header and random value on the CloudFront domain, the company can prevent direct access to the ALB and ensure that only requests from CloudFront are forwarded to the ECS tasks. By configuring the ALB to conditionally forward traffic if the header and value match, the company can implement origin access identity (OAI) for its ALB origin. OAI is a feature that enables you to restrict access to your content by requiring users to access your content through CloudFront URLs<sup>2</sup>. By deploying an AWS WAF web ACL that includes an appropriate rule group, the company can prevent attacks and ensure business continuity with minimal service interruptions during an ongoing attack. AWS WAF is a web application firewall that lets you monitor and control web requests that are forwarded to your web applications. You can use AWS WAF to define customizable web security rules that control which traffic can access your web applications and which traffic should be blocked<sup>3</sup>. By associating the web ACL with the Amazon CloudFront distribution, the company can apply the web security rules to all requests that are forwarded by CloudFront.

The other options are not correct because:

Deploying the application in two AWS Regions and configuring Amazon Route 53 to route to both Regions with equal weight would not prevent attacks or ensure business continuity. Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service that routes end users to Internet applications by translating names like `www.example.com` into numeric IP addresses<sup>4</sup>. However, routing traffic to multiple Regions would not protect against attacks or provide failover in case of an outage. It would also increase operational complexity and costs compared to using CloudFront and AWS WAF.

Configuring auto scaling for Amazon ECS tasks and creating a DynamoDB Accelerator (DAX) cluster would not prevent attacks or ensure business continuity. Auto scaling is a feature that enables you to automatically adjust your ECS tasks based on demand or a schedule. DynamoDB Accelerator (DAX) is a fully managed, highly available, in-memory cache for DynamoDB that delivers up to a

10x performance improvement.

However, these features would not protect against attacks or provide failover in case of an outage. They would also increase operational complexity and costs compared to using CloudFront and AWS WAF.

Configuring Amazon ElastiCache to reduce overhead on DynamoDB would not prevent attacks or ensure business continuity.

Amazon ElastiCache is a fully managed in-memory data store service that makes it easy to deploy, operate, and scale popular open-source compatible in-memory data stores. However, this service would not protect against attacks or provide failover in case of an outage. It would also increase operational complexity and costs compared to using CloudFront and AWS WAF.

References:

<https://aws.amazon.com/cloudfront/>

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3.html>

<https://aws.amazon.com/waf/>

<https://aws.amazon.com/route53/>

<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/service-auto-scaling.html>

<https://aws.amazon.com/dynamodb/dax/>

<https://aws.amazon.com/elasticache/>

### NEW QUESTION # 531

A company provisions short-lived AWS accounts for students. Each account needs access to ml.p2.xlarge SageMaker instances for training and inference. The default quotas are insufficient.

How should quota increases be automated during account provisioning?

- A. Create the template in ap-southeast-2 for SageMaker quotas in us-east-1.
- B. Use ml.p2.xlarge training warm pool quota in ap-southeast-2.
- C. Create a quota request template in us-east-1, enable template association, and add quotas for ml.p2.xlarge training and endpoint usage in ap-southeast-2.
- D. Use warm pool quotas in us-east-1.

**Answer: C**

Explanation:

A is correct: Quota request templates must be created in us-east-1, the only region that supports them. You specify the desired quota in the correct target Region (ap-southeast-2) for SageMaker training and endpoint usage. This enables automatic quota increases for newly created accounts in the org.

B, C, and D misconfigure either region or quota type.

### NEW QUESTION # 532

A company has mounted sensors to collect information about environmental parameters such as humidity and light throughout all the company's factories. The company needs to stream and analyze the data in the AWS Cloud in real time. If any of the parameters fall out of acceptable ranges, the factory operations team must receive a notification immediately.

Which solution will meet these requirements?

- A. Stream the data to an Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster. Set up a trigger in Amazon MSK to invoke an AWS Fargate task to analyze the data. Use Amazon Simple Email Service (Amazon SES) to notify the operations team.
- B. Stream the data to an Amazon Kinesis Data Firehose delivery stream. Use AWS Step Functions to consume and analyze the data in the Kinesis Data Firehose delivery stream. Use Amazon Simple Notification Service (Amazon SNS) to notify the operations team.
- C. Stream the data to an Amazon Kinesis Data Analytics application. Use an automatically scaled and containerized service in Amazon Elastic Container Service (Amazon ECS) to consume and analyze the data. Use Amazon Simple Email Service (Amazon SES) to notify the operations team.
- D. Stream the data to an Amazon Kinesis data stream. Create an AWS Lambda function to consume the Kinesis data stream and to analyze the data. Use Amazon Simple Notification Service (Amazon SNS) to notify the operations team.

**Answer: D**

Explanation:

The best solution is to stream the data to an Amazon Kinesis data stream and create an AWS Lambda function to consume the Kinesis data stream and to analyze the data. Amazon Kinesis is a web service that can collect, process, and analyze real-time streaming data from various sources, such as sensors. AWS Lambda is a serverless computing service that can run code in response

to events, such as incoming data from a Kinesis data stream. By using AWS Lambda, the company can avoid provisioning or managing servers and scale automatically based on the demand. Amazon Simple Notification Service (Amazon SNS) is a web service that enables applications to send and receive notifications from the cloud. By using Amazon SNS, the company can notify the operations team immediately if any of the parameters fall out of acceptable ranges. This solution meets all the requirements of the company.

References: Amazon Kinesis Documentation, AWS Lambda Documentation, Amazon Simple Notification Service Documentation

### NEW QUESTION # 533

A company is planning to host a web application on AWS and works to load balance the traffic across a group of Amazon EC2 instances. One of the security requirements is to enable end-to-end encryption in transit between the client and the web server. Which solution will meet this requirement?

- **A. Place the EC2 instances behind an Application Load Balancer (ALB). Provision an SSL certificate using AWS Certificate Manager (ACM), and associate the SSL certificate with the ALB. Export the SSL certificate and install it on each EC2 instance. Configure the ALB to listen on port 443 and to forward traffic to port 443 on the instances.**
- B. Associate the EC2 instances with a target group. Provision an SSL certificate using AWS Certificate Manager (ACM). Create an Amazon CloudFront distribution and configure it to use the SSL certificate. Set CloudFront to use the target group as the origin server
- C. Place the EC2 instances behind an Application Load Balancer (ALB). Provision an SSL certificate using AWS Certificate Manager (ACM), and associate the SSL certificate with the ALB. Provision a third-party SSL certificate and install it on each EC2 instance. Configure the ALB to listen on port 443 and to forward traffic to port 443 on the instances.
- D. Place the EC2 instances behind a Network Load Balancer (NLB). Provision a third-party SSL certificate and install it on the NLB and on each EC2 instance. Configure the NLB to listen on port 443 and to forward traffic to port 443 on the instances.

**Answer: A**

Explanation:

Option A is correct because placing the EC2 instances behind an Application Load Balancer (ALB) and associating an SSL certificate from AWS Certificate Manager (ACM) with the ALB enables encryption in transit between the client and the ALB. Exporting the SSL certificate and installing it on each EC2 instance enables encryption in transit between the ALB and the web server. Configuring the ALB to listen on port 443 and to forward traffic to port 443 on the instances ensures that HTTPS is used for both connections. This solution achieves end-to-end encryption in transit for the web application.

### NEW QUESTION # 534

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