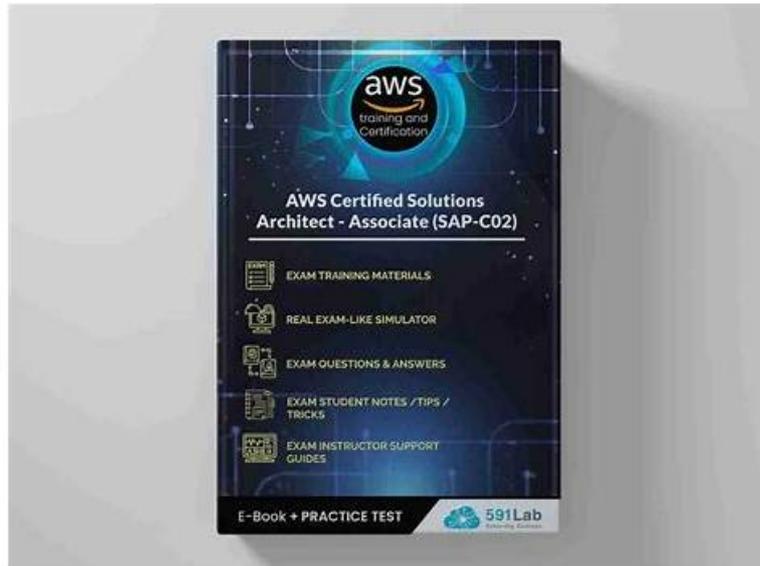


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## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample

## Questions (Q186-Q191):

### NEW QUESTION # 186

A company runs a web application on AWS. The web application delivers static content from an Amazon S3 bucket that is behind an Amazon CloudFront distribution. The application serves dynamic content by using an Application Load Balancer (ALB) that distributes requests to a fleet of Amazon EC2 instances in Auto Scaling groups. The application uses a domain name setup in Amazon Route 53.

Some users reported occasional issues when the users attempted to access the website during peak hours. An operations team found that the ALB sometimes returned HTTP 503 Service Unavailable errors. The company wants to display a custom error message page when these errors occur. The page should be displayed immediately for this error code.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Set up a Route 53 failover routing policy. Configure a health check to determine the status of the ALB endpoint and to fail over to the failover S3 bucket endpoint.
- B. Create a CloudFront origin group that has two origins. Set the ALB endpoint as the primary origin. For the secondary origin, set an S3 bucket that is configured to host a static website. Set up origin failover for the CloudFront distribution. Update the S3 static website to incorporate the custom error page.
- C. Create a second CloudFront distribution and an S3 static website to host the custom error page. Set up a Route 53 failover routing policy. Use an active-passive configuration between the two distributions.
- D. Create a CloudFront function that validates each HTTP response code that the ALB returns. Create an S3 static website in an S3 bucket. Upload the custom error page to the S3 bucket as a failover. Update the function to read the S3 bucket and to serve the error page to the end users.

**Answer: B**

### NEW QUESTION # 187

A company is planning on hosting its ecommerce platform on AWS using a multi-tier web application designed for a NoSQL database. The company plans to use the us-west-2 Region as its primary Region. The company wants to ensure that copies of the application and data are available in a second Region, us-west-1, for disaster recovery. The company wants to keep the time to fail over as low as possible. Failing back to the primary Region should be possible without administrative interaction after the primary service is restored.

Which design should the solutions architect use?

- A. Use AWS CloudFormation StackSets to create the stacks in both Regions using Auto Scaling groups for the web and application tiers. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication. Use Amazon CloudFront with static files in Amazon S3, and multi-Region origins for the front-end web tier. Use Amazon DynamoDB tables in each Region with scheduled backups to Amazon S3.
- B. Use AWS CloudFormation StackSets to create the stacks in both Regions with Auto Scaling groups for the web and application tiers. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication. Use an Amazon Route 53 DNS failover routing policy to direct users to the secondary site in us-west-1 in the event of an outage. Use Amazon DynamoDB global tables for the database tier.
- C. Use AWS Service Catalog to deploy the web and application servers in both Regions. Asynchronously replicate static content between the two Regions using Amazon S3 cross-Region replication. Use Amazon Route 53 health checks to identify a primary Region failure and update the public DNS entry listing to the secondary Region in the event of an outage. Use Amazon RDS for MySQL with cross-Region replication for the database tier.
- D. Use AWS CloudFormation StackSets to create the stacks in both Regions with Auto Scaling groups for the web and application tiers. Asynchronously replicate static content between Regions using Amazon S3 cross-Region replication. Use an Amazon Route 53 DNS failover routing policy to direct users to the secondary site in us-west-1 in the event of an outage. Deploy an Amazon Aurora global database for the database tier.

**Answer: B**

Explanation:

In this design, AWS CloudFormation StackSets is used to create the stacks in both Regions, ensuring consistency across both environments. The Auto Scaling groups for the web and application tiers provide scalability and reliability, while the asynchronous replication of static content using Amazon S3 cross-Region replication ensures data availability. The use of an Amazon Route 53 DNS failover routing policy allows for fast and automatic failover to the secondary Region in the event of an outage, without the need for administrative interaction. The use of Amazon DynamoDB global tables for the database tier ensures that data is always available, even in the event of an outage.

### NEW QUESTION # 188

A company has AWS accounts that are in an organization in AWS organizations. The company wants to track Amazon EC2 usage as a metric.

The company's architecture team must receive a daily alert if the EC2 usage is more than 10% higher than the average EC2 usage from the last 30 days.

Which solution will meet these requirements?

- A. Enable AWS Trusted Advisor in the organization's management account. Configure a cost optimization advisory alert to notify the architecture team if the EC2 usage is 10% more than the reported average usage for the last 30 days.
- B. Configure AWS Budgets in the organization's management account. Specify a usage type of EC2 running hours. Specify a daily period. Set the budget amount to be 10% more than the reported average usage for the last 30 days from AWS Cost Explorer.
- C. Configure Amazon Detective in the organization's management account. Configure an EC2 usage anomaly alert to notify the architecture team if Detective identifies a usage anomaly of more than 10%.
- **D. Configure an alert to notify the architecture team if the usage threshold is met. Configure AWS Cost Anomaly Detection in the organization's management account. Configure a monitor type of AWS Service. Apply a filter of Amazon EC2. Configure an alert subscription to notify the architecture team if the usage is 10% more than the average usage for the last 30 days.**

**Answer: D**

Explanation:

The correct answer is B.

B: This solution meets the requirements because it uses AWS Cost Anomaly Detection, which is a feature of AWS Cost Management that uses machine learning to identify and alert on anomalous spend and usage patterns. By configuring a monitor type of AWS Service and applying a filter of Amazon EC2, the solution can track the EC2 usage as a metric across the organization's accounts. By configuring an alert subscription with a threshold of 10%, the solution can notify the architecture team via email or Amazon SNS if the EC2 usage is more than 10% higher than the average usage for the last 30 days<sup>12</sup> A: This solution is incorrect because it uses AWS Budgets, which is a feature of AWS Cost Management that helps to plan and track costs and usage.

However, AWS Budgets does not support usage type of EC2 running hours as a budget type. The only supported usage types are Amazon S3 storage, Amazon EC2 RI utilization, and Amazon EC2 RI coverage. Moreover, AWS Budgets does not support setting the budget amount based on the reported average usage from AWS Cost Explorer. The budget amount has to be a fixed or variable value<sup>34</sup> C: This solution is incorrect because it uses AWS Trusted Advisor, which is a feature of AWS Premium Support that provides recommendations to follow best practices for cost optimization, security, performance, and fault tolerance. However, AWS Trusted Advisor does not support configuring custom alerts based on EC2 usage or average usage for the last 30 days. The only supported alerts are based on predefined checks and thresholds that are applied to all services and resources in the account<sup>56</sup> D:

This solution is incorrect because it uses Amazon Detective, which is a service that helps to analyze and visualize security data to investigate potential security issues. However, Amazon Detective does not support configuring EC2 usage anomaly alerts based on average usage for the last 30 days. The only supported alerts are based on GuardDuty findings and other security-related events that are detected by machine learning models<sup>78</sup> References:

1: AWS Cost Anomaly Detection - Amazon Web Services 2: Getting started with AWS Cost Anomaly Detection 3: Set Custom Cost and Usage Budgets - AWS Budgets - Amazon Web Services 4: Creating a budget - AWS Cost Management 5: AWS Trusted Advisor 6: AWS Trusted Advisor - AWS Support 7:

Security Investigation Visualization - Amazon Detective - AWS 8: What is Amazon Detective? - Amazon Detective

### NEW QUESTION # 189

A company provides a centralized Amazon EC2 application hosted in a single shared VPC. The centralized application must be accessible from client applications running in the VPCs of other business units. The centralized application front end is configured with a Network Load Balancer (NLB) for scalability.

Up to 10 business unit VPCs will need to be connected to the shared VPC. Some of the business unit VPC CIDR blocks overlap with the shared VPC, and some overlap with each other. Network connectivity to the centralized application in the shared VPC should be allowed from authorized business unit VPCs only.

Which network configuration should a solutions architect use to provide connectivity from the client applications in the business unit VPCs to the centralized application in the shared VPC?

- A. Configure a virtual private gateway for the shared VPC and create customer gateways for each of the authorized business unit VPCs. Establish a Site-to-Site VPN connection from the business unit VPCs to the shared VPC. Configure VPC routing tables to send traffic to the VPN connection.
- **B. Create a VPC endpoint service using the centralized application NLB and enable (he option to require endpoint**

acceptance. Create a VPC endpoint in each of the business unit VPCs using the service name of the endpoint service. Accept authorized endpoint requests from the endpoint service console.

- C. Create a VPC peering connection from each business unit VPC to the shared VPC. Accept the VPC peering connections from the shared VPC console. Configure VPC routing tables to send traffic to the VPC peering connection.
- D. Create an AWS Transit Gateway. Attach the shared VPC and the authorized business unit VPCs to the transit gateway. Create a single transit gateway route table and associate it with all of the attached VPCs. Allow automatic propagation of routes from the attachments into the route table. Configure VPC routing tables to send traffic to the transit gateway.

**Answer: B**

### NEW QUESTION # 190

During an audit, a security team discovered that a development team was putting IAM user secret access keys in their code and then committing it to an AWS CodeCommit repository. The security team wants to automatically find and remediate instances of this security vulnerability.

Which solution will ensure that the credentials are appropriately secured automatically?

- A. Configure a CodeCommit trigger to invoke an AWS Lambda function to scan new code submissions for credentials. If credentials are found, disable them in AWS IAM and notify the user.
- B. Run a script nightly using AWS Systems Manager Run Command to search for credentials on the development instances. If found, use AWS Secrets Manager to rotate the credentials.
- C. Configure Amazon Macie to scan for credentials in CodeCommit repositories. If credentials are found, trigger an AWS Lambda function to disable the credentials and notify the user.
- D. Use a scheduled AWS Lambda function to download and scan the application code from CodeCommit. If credentials are found, generate new credentials and store them in AWS KMS.

**Answer: A**

Explanation:

CodeCommit may use S3 on the back end (and it also uses DynamoDB on the back end) but I don't think they're stored in buckets that you can see or point Macie to. In fact, there are even solutions out there describing how to copy your repo from CodeCommit into S3 to back it up: <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/automate-event-driven-backups-from-codecommit-to-amazon-s3-using-codebuild-and-cloudwatch-events.html>

### NEW QUESTION # 191

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