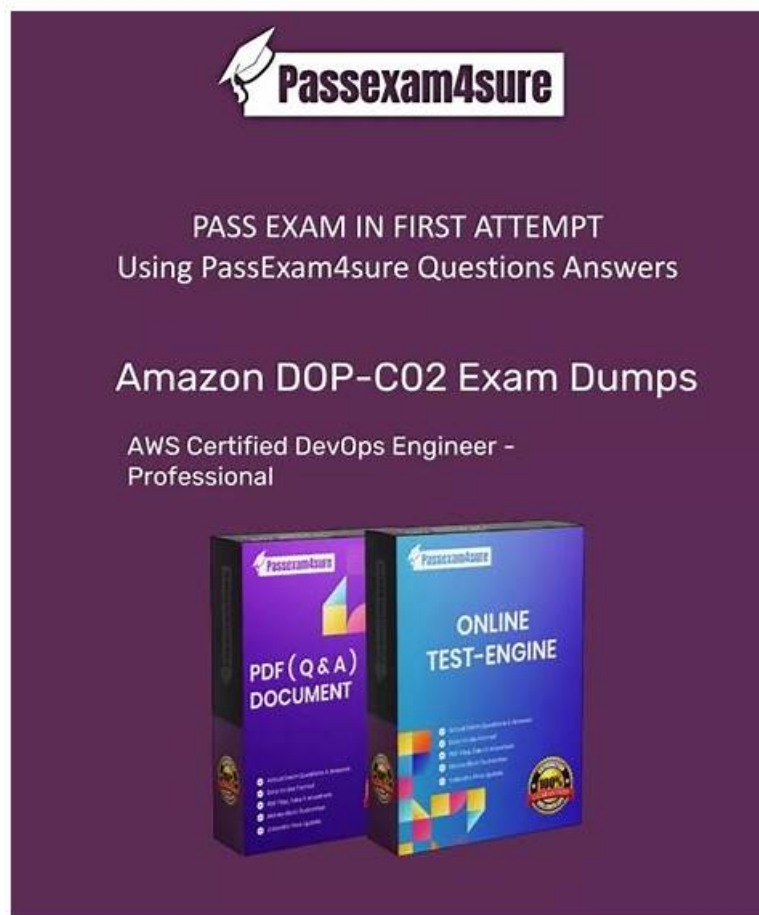# Free PDF 2026 Amazon DOP-C02 Pass-Sure Detailed Study Plan

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q393-Q398):

NEW QUESTION # 393

A company is using the AWS Cloud Development Kit (AWS CDK) to develop a microservices-based application. The company needs to create reusable infrastructure components for three environments:

development, staging, and production. The components must include networking resources, database resources, and serverless compute resources.

The company must implement a solution that provides consistent infrastructure across environments while offering the option for environment-specific customizations. The solution also must minimize code duplication.

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

- A. Create custom Level 1 (L1) constructs out of Level 2 (L2) constructs where repeatable patterns exist.
  Create a single set of deployment stacks that takes the environment name as an argument upon instantiation. Deploy CDK applications for each environment.
- B. Create custom Level 3 (L3) constructs out of Level 2 (L2) constructs where repeatable patterns exist.Create separate deployment stacks for each environment. Use the CDK context command to determine which stacks to run when deploying to each environment.
- C. Create custom Level 3 (L3) constructs out of Level 2 (L2) constructs where repeatable patterns exist.
  Create a single set of deployment stacks that takes the environment name as an argument upon instantiation. Deploy CDK applications for each environment.
- D. Create custom Level 1 (L1) constructs out of Level 2 (L2) constructs where repeatable patterns exist.
  Create separate deployment stacks for each environment. Use the CDK context command to determine which stacks to run when deploying to each environment.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of DevOps Engineer Documents Only:
AWS CDK recommends using Level 3 (L3) custom constructs to encapsulate reusable multi-resource infrastructure patterns (networking, compute, DB). Then, define a single set of environment-aware stacks that accept environment parameters for deployment. This ensures consistency with minimal code duplication, per AWS CDK best practices and design patterns whitepaper.

NEW QUESTION # 394

A company is migrating its container-based workloads to an AWS Organizations multi-account environment. The environment consists of application workload accounts that the company uses to deploy and run the containerized workloads. The company has also provisioned a shared services account tor shared workloads in the organization.

The company must follow strict compliance regulations. All container images must receive security scanning before they are deployed to any environment. Images can be consumed by downstream deployment mechanisms after the images pass a scan with no critical vulnerabilities. Pre-scan and post-scan images must be isolated from one another so that a deployment can never use pre-scan images.

A DevOps engineer needs to create a strategy to centralize this process.

Which combination of steps will meet these requirements with the LEAST administrative overhead? (Select TWO.)

- A. Create an AWS Lambda function. Create an Amazon EventBridge rule that reacts to image scanning completed events and invokes the Lambda function. Write function code that determines the image scanning status and pushes images without critical vulnerabilities to the post-scan repositories.
- B. Create Amazon Elastic Container Registry (Amazon ECR) repositories in the shared services account: one repository for each pre-scan image and one repository for each post-scan image. Configure Amazon ECR image scanning to run on new image pushes to the pre-scan repositories. Use resource-based policies to grant the organization write access to the pre-scan repositories and read access to the post-scan repositories.
- C. Create a pipeline in AWS CodePipeline for each pre-scan repository. Create a source stage that runs when new images are pushed to the pre-scan repositories. Create a stage that uses AWS CodeBuild as the action provider. Write a buildspec.yaml definition that determines the image scanning status and pushes images without critical vulnerabilities lo the post-scan repositories.
- D. Create pre-scan Amazon Elastic Container Registry (Amazon ECR) repositories in each account that publishes container images. Create repositories for post-scan images in the shared services account. Configure Amazon ECR image scanning to run on new image pushes to the pre-scan repositories. Use resource-based policies to grant the organization read access to the post-scan repositories.
- E. Configure image replication for each image from the image's pre-scan repository to the image's post-scan repository.

Answer: B,E

Explanation:
* Step 1: Centralizing Image Scanning in a Shared Services Account
The first requirement is to centralize the image scanning process, ensuring pre-scan and post-scan images are stored separately. This can be achieved by creating separate pre-scan and post-scan repositories in the shared services account, with the appropriate resource-based policies to control access.
Action: Create separate ECR repositories for pre-scan and post-scan images in the shared services account. Configure resource-based policies to allow write access to pre-scan repositories and read access to post-scan repositories.
Why: This ensures that images are isolated before and after the scan, following the compliance requirements.
Reference:
This corresponds to Option A: Create Amazon Elastic Container Registry (Amazon ECR) repositories in the shared services account: one repository for each pre-scan image and one repository for each post-scan image. Configure Amazon ECR image scanning to run on new image pushes to the pre-scan repositories. Use resource-based policies to grant the organization write access to the pre-scan repositories and read access to the post-scan repositories.
* Step 2: Replication between Pre-Scan and Post-Scan Repositories
To automate the transfer of images from the pre-scan repositories to the post-scan repositories (after they pass the security scan), you can configure image replication between the two repositories.
Action: Set up image replication between the pre-scan and post-scan repositories to move images that have passed the security scan.
Why: Replication ensures that only scanned and compliant images are available for deployment, streamlining the process with minimal administrative overhead.
This corresponds to Option C: Configure image replication for each image from the image's pre-scan repository to the image's post-scan repository.

NEW QUESTION # 395
A company uses AWS Organizations to manage multiple accounts. Information security policies require that all unencrypted Amazon EBS volumes be marked as non-compliant. A DevOps engineer needs to automatically deploy the solution and ensure that this compliance check is always present.
Which solution will accomplish this?

- A. Create an AWS CloudFormation template that defines an AWS Inspector rule to check whether EBS encryption is enabled. Save the template to an Amazon S3 bucket that has been shared with all accounts within the company. Update the account creation script pointing to the CloudFormation template in Amazon S3.
- B. Create an AWS Config organizational rule to check whether EBS encryption is enabled and deploy the rule using the AWS CLI. Create and apply an SCP to prohibit stopping and deleting AWS Config across the organization.
- C. Create an SCP in Organizations. Set the policy to prevent the launch of Amazon EC2 instances without encryption on the EBS volumes using a conditional expression. Apply the SCP to all AWS accounts. Use Amazon Athena to analyze the AWS CloudTrail output, looking for events that deny an ec2:RunInstances action.
- D. Deploy an IAM role to all accounts from a single trusted account. Build a pipeline with AWS CodePipeline with a stage in AWS Lambda to assume the IAM role, and list all EBS volumes in the account. Publish a report to Amazon S3.

Answer: B

NEW QUESTION # 396
A company has deployed a critical application in two AWS Regions. The application uses an Application Load Balancer (ALB) in both Regions. The company has Amazon Route 53 alias DNS records for both ALBs.
The company uses Amazon Route 53 Application Recovery Controller to ensure that the application can fail over between the two Regions. The Route 53 ARC configuration includes a routing control for both Regions. The company uses Route 53 ARC to perform quarterly disaster recovery (DR) tests.
During the most recent DR test, a DevOps engineer accidentally turned off both routing controls. The company needs to ensure that at least one routing control is turned on at all times.
Which solution will meet these requirements?

- A. In Route 53 ARC, create a new resource set. Configure the resource set with an AWS::Route53RecoveryReadiness: DNSTargetResource resource type. Add the domain names of the two Route 53 alias DNS records as the target resource. Create a new readiness check for the resource set.
- B. In Route 53 ARC, create a new resource set. Configure the resource set with an AWS::Route53:HealthCheck resource type. Specify the ARNs of the two routing controls as the target resource. Create a new readiness check for the resource set.
- C. In Route 53 ARC. create a new assertion safety rule. Apply the assertion safety rule to the two routing controls. Configure

- D. In Route 53 ARC, create a new gating safety rule. Apply the assertion safety rule to the two routing controls. Configure the rule with the OR type with a threshold of 1.

Answer: C

Explanation:
The correct solution is to create a new assertion safety rule in Route 53 ARC and apply it to the two routing controls. An assertion safety rule is a type of safety rule that ensures that a minimum number of routing controls are always enabled. The ATLEAST type of assertion safety rule specifies the minimum number of routing controls that must be enabled for the rule to evaluate as healthy. By setting the threshold to 1, the rule ensures that at least one routing control is always turned on. This prevents the scenario where both routing controls are accidentally turned off and the application becomes unavailable in both Regions.
The other solutions are incorrect because they do not use safety rules to prevent both routing controls from being turned off. A gating safety rule is a type of safety rule that prevents routing control state changes that violate the rule logic. The OR type of gating safety rule specifies that one or more routing controls must be enabled for the rule to evaluate as healthy. However, this rule does not prevent a user from turning off both routing controls manually. A resource set is a collection of resources that are tested for readiness by Route 53 ARC. A readiness check is a test that verifies that all the resources in a resource set are operational. However, these concepts are not related to routing control states or safety rules. Therefore, creating a new resource set and a new readiness check will not ensure that at least one routing control is turned on at all times. Reference:
Routing control in Amazon Route 53 Application Recovery Controller
Viewing and updating routing control states in Route 53 ARC
Creating a control panel in Route 53 ARC
Creating safety rules in Route 53 ARC

NEW QUESTION # 397

A company sells products through an ecommerce web application The company wants a dashboard that shows a pie chart of product transaction details. The company wants to integrate the dashboard With the company's existing Amazon CloudWatch dashboards Which solution Will meet these requirements With the MOST operational efficiency?

- A. Update the ecommerce application to emit a JSON object to a CloudWatch log group for each processed transaction. Use CloudWatch Logs Insights to query the log group and to visualize the results in a pie chart format Attach the results to the desired CloudWatch dashboard.
- B. Update the ecommerce application to use AWS X-Ray for instrumentation. Create a new X-Ray subsegment Add an annotation for each processed transaction. Use X-Ray traces to query the data and to visualize the results in a pie chart format Attach the results to the desired CloudWatch dashboard
- C. Update the ecommerce application to emit a JSON object to an Amazon S3 bucket for each processed transaction. Use Amazon Athena to query the S3 bucket and to visualize the results In a Pie chart format. Export the results from Athena Attach the results to the desired CloudWatch dashboard
- D. Update the ecommerce application to emit a JSON object to a CloudWatch log group for each processed transaction_ Create an AWS Lambda function to aggregate and write the results to Amazon DynamoDB. Create a Lambda subscription filter for the log file. Attach the results to the desired CloudWatch dashboard.

Answer: A

Explanation:
The correct answer is A.
A comprehensive and detailed explanation is:
* Option A is correct because it meets the requirements with the most operational efficiency. Updating the ecommerce application to emit a JSON object to a CloudWatch log group for each processed transaction is a simple and cost-effective way to collect the data needed for the dashboard. Using CloudWatch Logs Insights to query the log group and to visualize the results in a pie chart format is also a convenient and integrated solution that leverages the existing CloudWatch dashboards. Attaching the results to the desired CloudWatchdashboard is straightforward and does not require any additional steps or services.
* Option B is incorrect because it introduces unnecessary complexity and cost. Updating the ecommerce application to emit a JSON object to an Amazon S3 bucket for each processed transaction is a valid way to store the data, but it requires creating and managing an S3 bucket and its permissions. Using Amazon Athena to query the S3 bucket and to visualize the results in a pie chart format is also a valid way to analyze the data, but it incurs charges based on the amount of data scanned by each query. Exporting the results from Athena and attaching them to the desired CloudWatch dashboard is also an extra step that adds more overhead and latency.
* Option C is incorrect because it uses AWS X-Ray for an inappropriate purpose. Updating the ecommerce application to use AWS X-Ray for instrumentation is a good practice for monitoring and tracing distributed applications, but it is not designed for

aggregating product transaction details.

Creating a new X-Ray subsegment and adding an annotation for each processed transaction is possible, but it would clutter the X-Ray service map and make it harder to debug performance issues. Using X- Ray traces to query the data and to visualize the results in a pie chart format is also possible, but it would require custom code and logic that are not supported by X-Ray natively. Attaching the results to the desired CloudWatch dashboard is also not supported by X-Ray directly, and would require additional steps or services.

* Option D is incorrect because it introduces unnecessary complexity and cost. Updating the ecommerce application to emit a JSON object to a CloudWatch log group for each processed transaction is a simple and cost-effective way to collect the data needed for the dashboard, as in option A. However, creating an AWS Lambda function to aggregate and write the results to Amazon DynamoDB is redundant, as CloudWatch Logs Insights can already perform aggregation queries on log data. Creating a Lambda subscription filter for the log file is also redundant, as CloudWatch Logs Insights can already access log data directly. Attaching the results to the desired CloudWatch dashboard would also require additional steps or services, as DynamoDB does not support native integration with CloudWatch dashboards.

References:
* CloudWatch Logs Insights
* Amazon Athena
* AWS X-Ray
* AWS Lambda
* Amazon DynamoDB

NEW QUESTION # 398

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