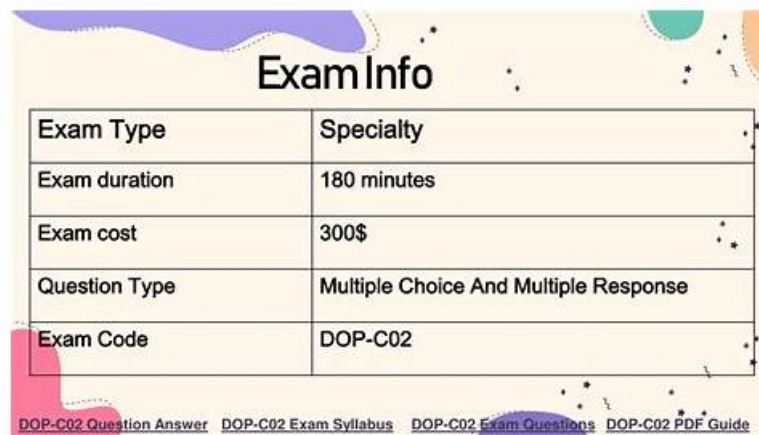


# Reliable Amazon DOP-C02 Dumps Files, DOP-C02 Exam Format



Exam Type	Specialty
Exam duration	180 minutes
Exam cost	300\$
Question Type	Multiple Choice And Multiple Response
Exam Code	DOP-C02

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The AWS Certified DevOps Engineer – Professional (DOP-C02) is an advanced-level certification offered by Amazon Web Services (AWS). AWS Certified DevOps Engineer - Professional certification is designed for IT professionals who have experience in developing and managing applications on the AWS platform. It is intended to validate the skills and expertise of individuals in implementing, automating, and managing DevOps practices on AWS.

Amazon DOP-C02 (AWS Certified DevOps Engineer - Professional) Certification Exam is a highly sought-after certification for those looking to establish themselves in the field of DevOps engineering. AWS Certified DevOps Engineer - Professional

certification is designed to test the skills and knowledge necessary for professionals to manage and operate distributed application systems using AWS tools and services.

## Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q398-Q403):

### NEW QUESTION # 398

A company has developed an AWS Lambda function that handles orders received through an API. The company is using AWS CodeDeploy to deploy the Lambda function as the final stage of a CI/CD pipeline.

A DevOps engineer has noticed there are intermittent failures of the ordering API for a few seconds after deployment. After some investigation the DevOps engineer believes the failures are due to database changes not having fully propagated before the Lambda function is invoked. How should the DevOps engineer overcome this?

- A. Add a `BeforeAllowTraffic` hook to the AppSpec file that tests and waits for any necessary database changes before traffic can flow to the new version of the Lambda function.
- B. Add a `validateService` hook to the AppSpec file that inspects incoming traffic and rejects the payload if dependent services such as the database are not yet ready.
- C. Add a `BeforeAllowTraffic` hook to the AppSpec file that tests and waits for any necessary database changes before deploying the new version of the Lambda function.
- D. Add an `AfterAllowTraffic` hook to the AppSpec file that forces traffic to wait for any pending database changes before allowing the new version of the Lambda function to respond.

**Answer: A**

Explanation:

Explanation

<https://docs.aws.amazon.com/codedeploy/latest/userguide/reference-appspec-file-structure-hooks.html#appspec->

### NEW QUESTION # 399

A company runs a workload on Amazon EC2 instances. The company needs a control that requires the use of Instance Metadata Service Version 2 (IMDSv2) on all EC2 instances in the AWS account. If an EC2 instance does not prevent the use of Instance Metadata Service Version 1 (IMDSv1), the EC2 instance must be terminated.

Which solution will meet these requirements?

- A. Create an Amazon EventBridge rule for the EC2 instance launch successful event. Send the event to an AWS Lambda function to inspect the EC2 metadata and to terminate the instance.
- B. Set up Amazon Inspector in the account. Configure Amazon Inspector to activate deep inspection for EC2 instances. Create an Amazon EventBridge rule for an Inspector2 finding. Set an AWS Lambda function as the target to terminate the instance.
- C. Set up AWS Config in the account. Use a managed rule to check EC2 instances. Configure the rule to remediate the findings by using AWS Systems Manager Automation to terminate the instance.
- D. Create a permissions boundary that prevents the `ec2:RunInstance` action if the `ec2:MetadataHttpTokens` condition key is not set to a value of `required`. Attach the permissions boundary to the IAM role that was used to launch the instance.

**Answer: D**

Explanation:

Explanation

To implement a control that requires the use of IMDSv2 on all EC2 instances in the account, the DevOps engineer can use a permissions boundary. A permissions boundary is a policy that defines the maximum permissions that an IAM entity can have. The DevOps engineer can create a permissions boundary that prevents the `ec2:RunInstance` action if the `ec2:MetadataHttpTokens` condition key is not set to a value of `required`. This condition key enforces the use of IMDSv2 on EC2 instances. The DevOps engineer can attach the permissions boundary to the IAM role that was used to launch the instance. This way, any attempt to launch an EC2 instance without using IMDSv2 will be denied by the permissions boundary.

### NEW QUESTION # 400

A company manages multiple AWS accounts by using AWS Organizations with OUS for the different business divisions. The company is updating their corporate network to use new IP address ranges. The company has 10 Amazon S3 buckets in different

AWS accounts. The S3 buckets store reports for the different divisions. The S3 bucket configurations allow only private corporate network IP addresses to access the S3 buckets.

A DevOps engineer needs to change the range of IP addresses that have permission to access the contents of the S3 buckets. The DevOps engineer also needs to revoke the permissions of two OUS in the company. Which solution will meet these requirements?

- A. Create a new SCP that has two statements, one that allows access to the new range of IP addresses for all the S3 buckets and one that denies access to the old range of IP addresses for all the S3 buckets. Set a permissions boundary for the OrganizationAccountAccessRole role in the two OUS to deny access to the S3 buckets.
- B. Create a new SCP that has a statement that allows only the new range of IP addresses to access the S3 buckets. Create another SCP that denies access to the S3 buckets. Attach the second SCP to the two OUS.
- C. On all the S3 buckets, configure resource-based policies that allow only the new range of IP addresses to access the S3 buckets. Set a permissions boundary for the OrganizationAccountAccessRole role in the two OUS to deny access to the S3 buckets.
- **D. On all the S3 buckets, configure resource-based policies that allow only the new range of IP addresses to access the S3 buckets. Create a new SCP that denies access to the S3 buckets. Attach the SCP to the two OUs.**

**Answer: D**

Explanation:

The correct answer is C.

A comprehensive and detailed explanation is:

Option A is incorrect because creating a new SCP that has two statements, one that allows access to the new range of IP addresses for all the S3 buckets and one that denies access to the old range of IP addresses for all the S3 buckets, is not a valid solution. SCPs are not resource-based policies, and they cannot specify the S3 buckets or the IP addresses as resources or conditions. SCPs can only control the actions that can be performed by the principals in the organization, not the access to specific resources. Moreover, setting a permissions boundary for the OrganizationAccountAccessRole role in the two OUs to deny access to the S3 buckets is not sufficient to revoke the permissions of the two OUs, as there might be other roles or users in those OUs that can still access the S3 buckets.

Option B is incorrect because creating a new SCP that has a statement that allows only the new range of IP addresses to access the S3 buckets is not a valid solution, for the same reason as option A. SCPs are not resource-based policies, and they cannot specify the S3 buckets or the IP addresses as resources or conditions. Creating another SCP that denies access to the S3 buckets and attaching it to the two OUs is also not a valid solution, as SCPs cannot specify the S3 buckets as resources either.

Option C is correct because it meets both requirements of changing the range of IP addresses that have permission to access the contents of the S3 buckets and revoking the permissions of two OUs in the company. On all the S3 buckets, configuring resource-based policies that allow only the new range of IP addresses to access the S3 buckets is a valid way to update the IP address ranges, as resource-based policies can specify both resources and conditions. Creating a new SCP that denies access to the S3 buckets and attaching it to the two OUs is also a valid way to revoke the permissions of those OUs, as SCPs can deny actions such as s3:PutObject or s3:GetObject on any resource.

Option D is incorrect because setting a permissions boundary for the OrganizationAccountAccessRole role in the two OUs to deny access to the S3 buckets is not sufficient to revoke the permissions of the two OUs, as there might be other roles or users in those OUs that can still access the S3 buckets. A permissions boundary is a policy that defines the maximum permissions that an IAM entity can have. However, it does not revoke any existing permissions that are granted by other policies.

Reference:

AWS Organizations

S3 Bucket Policies

Service Control Policies

Permissions Boundaries

#### NEW QUESTION # 401

A DevOps engineer manages a large commercial website that runs on Amazon EC2. The website uses Amazon Kinesis Data Streams to collect and process web logs. The DevOps engineer manages the Kinesis consumer application, which also runs on Amazon EC2.

Sudden increases of data cause the Kinesis consumer application to fall behind and the Kinesis data streams drop records before the records can be processed. The DevOps engineer must implement a solution to improve stream handling.

Which solution meets these requirements with the MOST operational efficiency?

- A. Increase the number of shards in the Kinesis data streams to increase the overall throughput so that the consumer application processes the data faster.
- **B. Horizontally scale the Kinesis consumer application by adding more EC2 instances based on the Amazon CloudWatch GetRecordsIteratorAgeMilliseconds metric. Increase the retention period of the Kinesis data streams.**

- C. Modify the Kinesis consumer application to store the logs durably in Amazon S3 Use Amazon EMR to process the data directly on Amazon S3 to derive customer insights Store the results in Amazon S3.
- D. Convert the Kinesis consumer application to run as an AWS Lambda function. Configure the Kinesis data streams as the event source for the Lambda function to process the data streams

**Answer: B**

#### NEW QUESTION # 402

A company uses a pipeline in AWS CodePipeline to upload AWS CloudFormation templates to an Amazon S3 bucket. The pipeline uses the templates to deploy CloudFormation stacks that match the names of the templates.

The company has experienced issues when it tries to revert templates to a previous version. To prevent these issues, the company must have the ability to review template modifications before the modifications are deployed to production.

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

- A. Configure a connection in AWS CodeConnections to a Git repository. Store the templates in the Git repository. Configure a pull request workflow to review template modifications. Configure AWS CloudFormation Git sync for the stacks.
- B. Update the pipeline to invoke an AWS Lambda function to check the template modifications before the stack deployments.
- C. Configure a connection in AWS CodeConnections to a Git repository. Store the templates in the Git repository. Configure the pipeline to include a source action that uses the connection. Add a manual review action to the pipeline to review template modifications before the stack deployments.
- **D. Add a manual review action in the pipeline to review modifications to the template code before the stack deployments.**

**Answer: D**

Explanation:

The requirement is simply: review changes before production deployment , with the least operational overhead .

\* B is the lightest change: adding a Manual approval (review) action in CodePipeline creates a controlled gate before the deploy stage. It requires no new repositories, no new services, and no custom code-just pipeline configuration.

Why not the others:

\* A introduces additional moving parts (Git repo integration, PR workflow management, and CloudFormation Git sync). That's useful, but it's more operational overhead than necessary to satisfy

"review before deploy."

\* C requires custom Lambda logic to inspect templates and decide whether to proceed-more code to write, run, secure, and maintain.

\* D adds both Git integration and a manual approval step-again more overhead than just adding the approval gate.

So B best meets the requirement with the least operational effort: a simple manual approval stage in the pipeline before production deployment.

#### NEW QUESTION # 403

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