

# Exam DOP-C02 Outline—Free Download Test Questions Pdf for DOP-C02: AWS Certified DevOps Engineer - Professional



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Amazon DOP-C02 (AWS Certified DevOps Engineer - Professional) Exam is a certification exam that is designed for professionals who want to demonstrate their expertise in DevOps practices and AWS technologies. DOP-C02 exam is intended for individuals who have a deep understanding of the core principles and practices of DevOps, as well as proficiency in the deployment, management, and operation of AWS services.

The AWS Certified DevOps Engineer - Professional certification is particularly important for those who want to advance their careers in the field of DevOps. It is an industry-recognized certification that can greatly enhance the job prospects of professionals in this field. Companies are increasingly looking for professionals with AWS certifications, and the DOP-C02 Certification is one of the most valuable certifications in this regard.

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Achieving the DOP-C02 Certification demonstrates a candidate's ability to design, deploy, and operate scalable, highly available,

and fault-tolerant systems on AWS. It also highlights their proficiency in implementing and automating security and compliance controls, as well as their expertise in optimizing and improving the performance of applications and infrastructure.

## Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q147-Q152):

### NEW QUESTION # 147

A video-sharing company stores its videos in Amazon S3. The company has observed a sudden increase in video access requests, but the company does not know which videos are most popular. The company needs to identify the general access pattern for the video files. This pattern includes the number of users who access a certain file on a given day, as well as the number of pull requests for certain files. 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?

How can the company meet these requirements with the LEAST amount of effort?

- A. Activate S3 server access logging. Use Amazon Athena to create an external table with the log files. Use Athena to create a SQL query to analyze the access patterns.
- B. Record an Amazon CloudWatch Logs log message for every S3 object access event. Configure a CloudWatch Logs log stream to write the file access information, such as user, S3 bucket, and file key, to an Amazon Kinesis Data Analytics for SQL application. Perform a sliding window analysis.
- C. Activate S3 server access logging. Import the access logs into an Amazon Aurora database. Use an Aurora SQL query to analyze the access patterns.
- D. Invoke an AWS Lambda function for every S3 object access event. Configure the Lambda function to write the file access information, such as user, S3 bucket, and file key, to an Amazon Aurora database. Use an Aurora SQL query to analyze the access patterns.

**Answer: A**

Explanation:

Explanation

Activating S3 server access logging and using Amazon Athena to create an external table with the log files is the easiest and most cost-effective way to analyze access patterns. This option requires minimal setup and allows for quick analysis of the access patterns with SQL queries. Additionally, Amazon Athena scales automatically to match the query load, so there is no need for additional infrastructure provisioning or management.

### NEW QUESTION # 148

A company requires its developers to tag all Amazon Elastic Block Store (Amazon EBS) volumes in an account to indicate a desired backup frequency. This requirement includes EBS volumes that do not require backups. The company uses custom tags named Backup\_Frequency that have values of none, daily, or weekly that correspond to the desired backup frequency. An audit finds that developers are occasionally not tagging the EBS volumes.

A DevOps engineer needs to ensure that all EBS volumes always have the Backup\_Frequency tag so that the company can perform backups at least weekly unless a different value is specified.

Which solution will meet these requirements?

- A. Set up AWS Config in the account. Create a custom rule that returns a compliance failure for all Amazon EC2 resources that do not have a Backup\_Frequency tag applied. Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly.
- B. Turn on AWS CloudTrail in the account. Create an Amazon EventBridge rule that reacts to EBS CreateVolume events. Configure a custom AWS Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly. Specify the runbook as the target of the rule.
- C. Turn on AWS CloudTrail in the account. Create an Amazon EventBridge rule that reacts to EBS CreateVolume events or EBS ModifyVolume events. Configure a custom AWS Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly. Specify the runbook as the target of the rule.
- D. Set up AWS Config in the account. Use a managed rule that returns a compliance failure for EC2::Volume resources that do not have a Backup\_Frequency tag applied. Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly.

**Answer: D**

Explanation:

The following are the steps that the DevOps engineer should take to ensure that all EBS volumes always have the Backup\_Frequency tag so that the company can perform backups at least weekly unless a different value is specified:

\* Set up AWS Config in the account.

\* Use a managed rule that returns a compliance failure for EC2::Volume resources that do not have a Backup Frequency tag applied.

\* Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly.

The managed rule AWS::Config::EBSVolumesWithoutBackupTag will return a compliance failure for any EBS volume that does not have the Backup\_Frequency tag applied. The remediation action will then use the Systems Manager Automation runbook to apply the Backup\_Frequency tag with a value of weekly to the EBS volume.

#### NEW QUESTION # 149

A company wants to use a grid system for a proprietary enterprise in-memory data store on top of AWS. This system can run in multiple server nodes in any Linux-based distribution. The system must be able to reconfigure the entire cluster every time a node is added or removed. When adding or removing nodes an `/etc./cluster/nodes` config file must be updated listing the IP addresses of the current node members of that cluster.

The company wants to automate the task of adding new nodes to a cluster.

What can a DevOps engineer do to meet these requirements?

- A. Create a user data script that lists all members of the current security group of the cluster and automatically updates the `/etc./cluster/. nodes` config. File whenever a new instance is added to the cluster.
- B. Use AWS OpsWorks Stacks to layer the server nodes of that cluster. Create a Chef recipe that populates the content of the `'etc./cluster/nodes` config file and restarts the service by using the current members of the layer. Assign that recipe to the Configure lifecycle event.
- C. Create an Amazon S3 bucket and upload a version of the `/etc./cluster/nodes` config file. Create a crontab script that will poll for that S3 file and download it frequently. Use a process manager such as Monit or system, to restart the cluster services when it detects that the new file was modified. When adding a node to the cluster edit the file's most recent members. Upload the new file to the S3 bucket.
- D. Put the file `nodes` config in version control. Create an AWS CodeDeploy deployment configuration and deployment group based on an Amazon EC2 tag value for the cluster nodes. When adding a new node to the cluster update the file with all tagged instances and make a commit in version control. Deploy the new file and restart the services.

**Answer: B**

Explanation:

You can run custom recipes manually, but the best approach is usually to have AWS OpsWorks Stacks run them automatically. Every layer has a set of built-in recipes assigned each of five lifecycle events—Setup, Configure, Deploy, Undeploy, and Shutdown. Each time an event occurs for an instance, AWS OpsWorks Stacks runs the associated recipes for each of the instance's layers, which handle the corresponding tasks. For example, when an instance finishes booting, AWS OpsWorks Stacks triggers a Setup event. This event runs the associated layer's Setup recipes, which typically handle tasks such as installing and configuring packages.

#### NEW QUESTION # 150

A company uses an AWS CodeCommit repository to store its source code and corresponding unit tests. The company has configured an AWS CodePipeline pipeline that includes an AWS CodeBuild project that runs when code is merged to the main branch of the repository.

The company wants the CodeBuild project to run the unit tests. If the unit tests pass, the CodeBuild project must tag the most recent commit.

How should the company configure the CodeBuild project to meet these requirements?

- A. Configure the CodeBuild project to use native Git to clone the CodeCommit repository. Configure the project to run the unit tests. Configure the project to use AWS CLI commands to create a new repository tag in the repository if the code passes the unit tests.
- B. Configure the CodeBuild project to use AWS CLI commands to copy the code from the CodeCommit repository. Configure the project to run the unit tests. Configure the project to use AWS CLI commands to create a new Git tag in the repository if the code passes the unit tests.
- C. Configure the CodeBuild project to use AWS CLI commands to copy the code from the CodeCommit repository.

Configure the project to run the unit tests. Configure the project to use AWS CLI commands to create a new repository tag in the repository if the code passes the unit tests.

- **D. Configure the CodeBuild project to use native Git to clone the CodeCommit repository. Configure the project to run the unit tests. Configure the project to use native Git to create a tag and to push the Git tag to the repository if the code passes the unit tests.**

**Answer: D**

Explanation:

\* Step 1: Using Native Git in CodeBuild To meet the requirement of running unit tests and tagging the most recent commit if the tests pass, the CodeBuild project should be configured to use native Git to clone the CodeCommit repository. Native Git support allows full functionality for managing the repository, including the ability to create and push tags.

\* Action: Configure the CodeBuild project to use native Git to clone the repository and run the tests.

\* Why: Using native Git provides flexibility for managing tags and other repository operations after the tests are successfully executed.

\* Step 2: Tagging the Most Recent Commit Once the unit tests pass, the CodeBuild project can use native Git to create a tag for the most recent commit and push that tag to the repository. This ensures that the tagged commit is linked to the test results.

\* Action: Configure the project to use native Git to create and push a tag to the repository if the tests pass.

\* Why: This ensures the correct commit is tagged automatically, streamlining the workflow.

### NEW QUESTION # 151

A company wants to deploy a workload on several hundred Amazon EC2 instances. The company will provision the EC2 instances in an Auto Scaling group by using a launch template.

The workload will pull files from an Amazon S3 bucket, process the data, and put the results into a different S3 bucket. The EC2 instances must have least-privilege permissions and must use temporary security credentials.

Which combination of steps will meet these requirements? (Select TWO.)

- A. Create an IAM user that has the appropriate permissions for Amazon S3. Generate a secret key and token.
- **B. Update the launch template to include the IAM instance profile.**
- C. Create a trust anchor and profile. Attach the IAM role to the profile.
- **D. Create an IAM role that has the appropriate permissions for S3 buckets. Add the IAM role to an instance profile.**
- E. Update the launch template. Modify the user data to use the new secret key and token.

**Answer: B,D**

Explanation:

To meet the requirements of deploying a workload on several hundred EC2 instances with least-privilege permissions and temporary security credentials, the company should use an IAM role and an instance profile.

An IAM role is a way to grant permissions to an entity that you trust, such as an EC2 instance. An instance profile is a container for an IAM role that you can use to pass role information to an EC2 instance when the instance starts. By using an IAM role and an instance profile, the EC2 instances can automatically receive temporary security credentials from the AWS Security Token Service (STS) and use them to access the S3 buckets. This way, the company does not need to manage or rotate any long-term credentials, such as IAM users or access keys.

To use an IAM role and an instance profile, the company should create an IAM role that has the appropriate permissions for S3 buckets. The permissions should allow the EC2 instances to read from the source S3 bucket and write to the destination S3 bucket. The company should also create a trust policy for the IAM role that specifies that EC2 is allowed to assume the role. Then, the company should add the IAM role to an instance profile. An instance profile can have only one IAM role, so the company does not need to create multiple roles or profiles for this scenario.

Next, the company should update the launch template to include the IAM instance profile. A launch template is a way to save launch parameters for EC2 instances, such as the instance type, security group, user data, and IAM instance profile. By using a launch template, the company can ensure that all EC2 instances in the Auto Scaling group have consistent configuration and permissions. The company should specify the name or ARN of the IAM instance profile in the launch template. This way, when the Auto Scaling group launches new EC2 instances based on the launch template, they will automatically receive the IAM role and its permissions through the instance profile.

The other options are not correct because they do not meet the requirements or follow best practices. Creating an IAM user and generating a secret key and token is not a good option because it involves managing long-term credentials that need to be rotated regularly. Moreover, embedding credentials in user data is not secure because user data is visible to anyone who can describe the EC2 instance. Creating a trust anchor and profile is not a valid option because trust anchors are used for certificate-based authentication, not for IAM roles or instance profiles. Modifying user data to use a new secret key and token is also not a good option because it requires updating user data every time the credentials change, which is not scalable or efficient.

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IAM Roles for Amazon EC2 - AWS Identity and Access Management

Working with Instance Profiles - AWS Identity and Access Management

Launching an Instance Using a Launch Template - Amazon Elastic Compute Cloud Temporary Security Credentials - AWS Identity and Access Management

## NEW QUESTION # 152

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