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Amazon DOP-C02

AWS Certified DevOps Engineer - Professional Exam

Questions & Answers PDF

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Amazon DOP-C02 (AWS Certified DevOps Engineer - Professional) Exam is a certification program offered by Amazon Web Services (AWS) to professionals who are interested in pursuing a career in the field of DevOps. AWS Certified DevOps Engineer - Professional certification program is designed to validate the skills and expertise required to manage and deploy applications on the AWS platform using DevOps principles and practices.

The AWS Certified DevOps Engineer – Professional certification is highly valued in the industry and is recognized by many organizations. AWS Certified DevOps Engineer - Professional certification provides many opportunities for professionals to advance their careers and work on complex AWS projects. AWS Certified DevOps Engineer - Professional certification also helps professionals to enhance their knowledge and skills in DevOps practices and AWS services.

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interview and offer you more opportunity. The matter now is how to prepare the DOP-C02 Questions and answers in a short time, our DOP-C02 study guide is the best effective way to get through the exam and obtain the certification.

To take the DOP-C02 Exam, candidates must have already obtained the AWS Certified Developer - Associate or AWS Certified SysOps Administrator - Associate certification. Additionally, candidates must have a minimum of two years of hands-on experience designing, deploying, and managing AWS applications and infrastructure at scale using DevOps principles and practices. AWS Certified DevOps Engineer - Professional certification exam is recognized by industry experts and employers as a benchmark of excellence for DevOps engineers and validates that an individual has the necessary skills and knowledge to design, manage, and maintain DevOps systems on AWS.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q174-Q179):

NEW QUESTION # 174

A company runs an application on Amazon EC2 instances. The company uses a series of AWS CloudFormation stacks to define the application resources. A developer performs updates by building and testing the application on a laptop and then uploading the build output and CloudFormation stack templates to Amazon S3. The developer's peers review the changes before the developer performs the CloudFormation stack update and installs a new version of the application onto the EC2 instances.

The deployment process is prone to errors and is time-consuming when the developer updates each EC2 instance with the new application. The company wants to automate as much of the application deployment process as possible while retaining a final manual approval step before the modification of the application or resources.

The company already has moved the source code for the application and the CloudFormation templates to AWS CodeCommit. The company also has created an AWS CodeBuild project to build and test the application.

Which combination of steps will meet the company's requirements? (Choose two.)

- A. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.
- B. Create an application group and a deployment group in AWS CodeDeploy. Install the CodeDeploy agent on the EC2 instances.
- C. Use AWS CodePipeline to invoke the CodeBuild job, run the CloudFormation update, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.
- D. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, run the CloudFormation change sets and start the AWS CodeDeploy deployment.
- E. Create an application revision and a deployment group in AWS CodeDeploy. Create an environment in CodeDeploy. Register the EC2 instances to the CodeDeploy environment.

Answer: B,D

Explanation:

Explanation

A- <https://docs.aws.amazon.com/codedeploy/latest/userguide/codedeploy-agent.html> D - This option correctly utilizes AWS CodePipeline to invoke the CodeBuild job and create CloudFormation change sets. It adds a manual approval step before executing the change sets and starting the AWS CodeDeploy deployment. This ensures that the deployment process is automated while retaining the final manual approval step.

NEW QUESTION # 175

A DevOps engineer is planning to use the AWS Cloud Development Kit (AWS CDK) to manage infrastructure as code (IaC) for a microservices-based application. The DevOps engineer must create reusable components for common infrastructure patterns and must apply the same cost allocation tags across different microservices.

Which solution will meet these requirements?

- A. Create AWS Service Catalog products that contain common infrastructure components. Create a CDK app. Use the TagManager class to add cost allocation tags to the whole app. Use the Service Catalog products to write a higher-level construct that contains all the microservices. Deploy the microservices as a single CDK stack with environment-specific configurations.
- B. Create AWS Service Catalog products that contain common infrastructure components. Create a CDK app. Use the Tags class to add cost allocation tags to the whole app. Use the Service Catalog products to write higher-level constructs for each microservice. Deploy the microservices as separate CDK stacks with environment-specific configurations.
- C. Create a custom CDK construct library that includes common infrastructure patterns. Create a CDK app. Use the Tags

- class to add cost allocation tags to the whole app. Use the custom CDK construct library to write higher-level constructs for each microservice. Deploy the microservices as separate CDK stacks with environment-specific configurations.
- D. Create a custom CDK construct library that includes common infrastructure patterns. Create a CDK app. Use the TagManager class to add cost allocation tags to the whole app. Use the custom CDK construct library to write a higher-level construct that contains all the microservices. Deploy the microservices as a single CDK stack with environment-specific configurations.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of DevOps Engineer documents only:

Use custom constructs to encapsulate reusable patterns and deploy separate stacks per microservice for better isolation and environment-specific params. Apply tags programmatically at the app/stack/construct scope with Tags so all resources inherit them. This is the recommended CDK pattern to minimize duplication and maximize reusability.

NEW QUESTION # 176

A company has a web application that is hosted on Amazon EC2 instances. The company is deploying the application into multiple AWS Regions. The application consists of dynamic content such as WebSocket-based real-time product updates. The company uses Amazon Route 53 to manage all DNS records. Which solution will provide multi-Region access to the application with the LEAST latency?

- A. Deploy a Network Load Balancer (NLB) in front of the EC2 instances in each Region. Deploy an AWS Global Accelerator standard accelerator with an endpoint group for each NLB. Create a Route 53 alias record that points to the accelerator's DNS address.
- B. Deploy a Network Load Balancer (NLB) in front of the EC2 instances in each Region. Create a Route 53 A record with a multivalue answer routing policy. Add IP addresses of the NLBs as the value of the record.
- C. Deploy an Application Load Balancer (ALB) in front of the EC2 instances in each Region. Create a Route 53 A record with a latency-based routing policy. Add IP addresses of the ALBs as the value of the record.
- D. Deploy an Application Load Balancer (ALB) in front of the EC2 instances in each Region. Deploy an Amazon CloudFront distribution with an origin group that contains the ALBs as origins. Create a Route 53 alias record that points to the CloudFront distribution's DNS address.

Answer: C

NEW QUESTION # 177

A company is using an Amazon Aurora cluster as the data store for its application. The Aurora cluster is configured with a single DB instance. The application performs read and write operations on the database by using the cluster's instance endpoint.

The company has scheduled an update to be applied to the cluster during an upcoming maintenance window.

The cluster must remain available with the least possible interruption during the maintenance window.

What should a DevOps engineer do to meet these requirements?

- A. Turn on the Multi-AZ option on the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster's reader endpoint for reads.
- B. Add a reader instance to the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster's reader endpoint for reads.
- C. Turn on the Multi-AZ option on the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster's custom ANY endpoint for read and write operations.
- D. Add a reader instance to the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster's custom ANY endpoint for read and write operations.

Answer: A

Explanation:

To meet the requirements, the DevOps engineer should do the following:

* Turn on the Multi-AZ option on the Aurora cluster.

* Update the application to use the Aurora cluster endpoint for write operations.

* Update the Aurora cluster's reader endpoint for reads.

Turning on the Multi-AZ option will create a replica of the database in a different Availability Zone. This will ensure that the database remains available even if one of the Availability Zones is unavailable.

Updating the application to use the Aurora cluster endpoint for write operations will ensure that all writes are sent to both the primary and replica databases. This will ensure that the data is always consistent.

Updating the Aurora cluster's reader endpoint for reads will allow the application to read data from the replica database. This will improve the performance of the application during the maintenance window.

NEW QUESTION # 178

A DevOps team operates an integration service that runs on an Amazon EC2 instance. The DevOps team uses Amazon Route 53 to manage the integration service's domain name by using a simple routing record. The integration service is stateful and uses Amazon Elastic File System (Amazon EFS) for data storage and state storage. The integration service does not support load balancing between multiple nodes. The DevOps team deploys the integration service on a new EC2 instance as a warm standby to reduce the mean time to recovery.

The DevOps team wants the integration service to automatically fail over to the standby EC2 instance. Which solution will meet these requirements?

- A. Update the existing Route 53 DNS record's routing policy to weighted. Set the existing DNS record's weighting to 100. For the same domain, add a new DNS record that points to the standby EC2 instance. Set the new DNS record's weighting to 0. Associate an application health check with each record.
- B. Update the existing Route 53 DNS record's routing policy to weighted. Set the existing DNS record's weighting to 99. For the same domain, add a new DNS record that points to the standby EC2 instance. Set the new DNS record's weighting to 1. Associate an application health check with each record.
- C. Create an Application Load Balancer (ALB). Update the existing Route 53 record to point to the ALB. Create a target group for each EC2 instance. Configure an application health check on each target group. Associate both target groups with the same ALB listener. Set the primary target group's weighting to 100. Set the standby target group's weighting to 0.
- D. Create an Application Load Balancer (ALB). Update the existing Route 53 record to point to the ALB. Create a target group for each EC2 instance. Configure an application health check on each target group. Associate both target groups with the same ALB listener. Set the primary target group's weighting to 99. Set the standby target group's weighting to 1.

Answer: A

NEW QUESTION # 179

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