

AWS-DevOps Guide Covers 100% Composite Exams

DevOps is a collaborative and multidisciplinary effort within an organization to automate continuous delivery of new software versions, while guaranteeing their correctness and reliability

A Survey of DevOps Concepts and Challenges - L Leite

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The AWS Certified DevOps Engineer - Professional certification exam covers a wide range of topics related to DevOps practices and AWS services. These topics include infrastructure as code, monitoring and logging, security and compliance, automation and optimization, and deployment and provisioning. AWS-DevOps Exam also covers various AWS services, such as AWS CloudFormation, AWS Elastic Beanstalk, AWS CodeDeploy, AWS CodePipeline, and AWS CloudWatch.

>> AWS-DevOps Exam Outline <<

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q48-Q53):

NEW QUESTION # 48

You have deployed a Cloudformation template which is used to spin up resources in your account. Which of the following status in Cloudformation represents a failure.

- A. UPDATE_COMPLETE_CLEANUP_IN_PROGRESS
- B. UPDATE_IN_PROGRESS
- C. DELETE_COMPLETE
- D. ROLLBACK_IN_PROGRESS

Answer: D

Explanation:

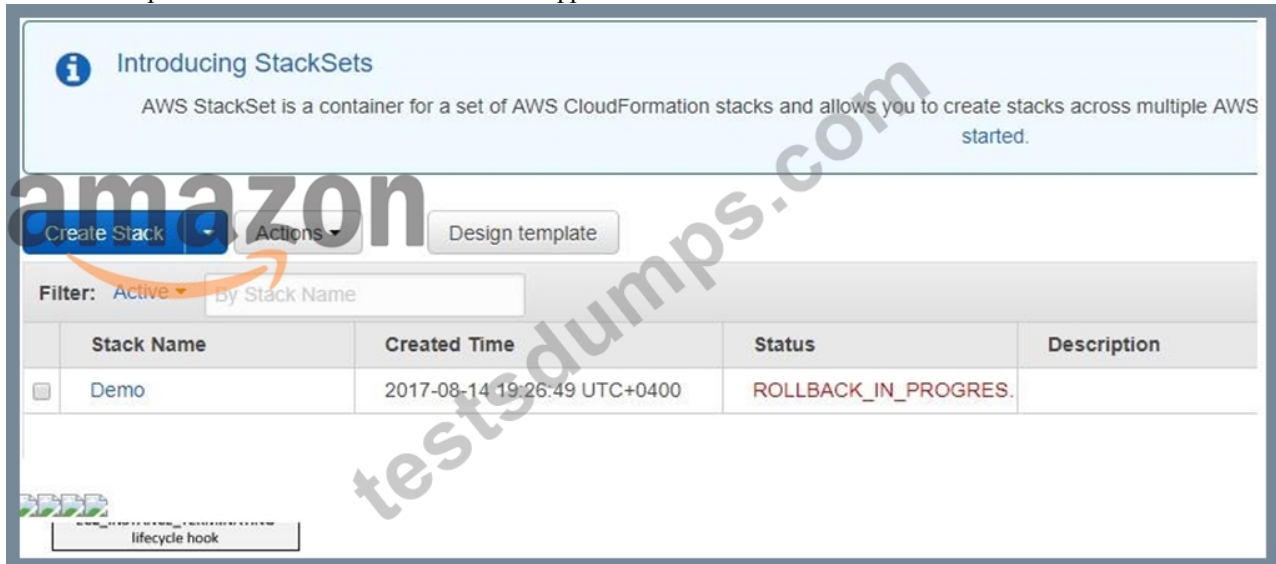
Explanation

AWS CloudFormation provisions and configures resources by making calls to the AWS services that are described in your template.

After all the resources have been created, AWS CloudFormation reports that your stack has been created. You can then start using the resources in your stack. If

stack creation fails, AWS CloudFormation rolls back your changes by deleting the resources that it created.

The below snapshot from CloudFormation shows what happens when there is an error in the stack creation.



For more information on how CloudFormation works, please refer to the below link:

* <http://docs.ws.amazon.com/AWSCloudFormation/latest/UserGuide/cfn-what-is-howdoesitwork-html>

NEW QUESTION # 49

An application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). A DevOps Engineer is using AWS CodeDeploy to release a new version. The deployment fails during the AllowTraffic lifecycle event, but a cause for the failure is not indicated in the deployment logs.

What would cause this?

- A. The appspec.yml file contains an invalid script to execute in the AllowTraffic lifecycle hook.
- B. The user who initiated the deployment does not have the necessary permissions to interact with the ALB.
- **C. The health checks specified for the ALB target group are misconfigured.**
- D. The CodeDeploy agent was not installed in the EC2 instances that are part of the ALB target group.

Answer: C

Explanation:

[https://docs.amazonaws.cn/en_us/codedeploy/latest/userguide/codedeploy-user.pdf\(399\)](https://docs.amazonaws.cn/en_us/codedeploy/latest/userguide/codedeploy-user.pdf(399))

NEW QUESTION # 50

You need to deploy an AWS stack in a repeatable manner across multiple environments. You have selected CloudFormation as the right tool to accomplish this, but have found that there is a resource type you need to create and model, but is unsupported by CloudFormation. How should you overcome this challenge?

- A. Use a CloudFormation Custom Resource Template by selecting an API call to proxy for create, update, and delete actions. CloudFormation will use the AWS SDK, CLI, or API method of your choosing as the state transition function for the resource type you are modeling.
- B. Instead of depending on CloudFormation, use Chef, Puppet, or Ansible to author Heat templates, which are declarative stack resource definitions that operate over the OpenStack hypervisor and cloud environment.
- **C. Create a CloudFormation Custom Resource Type by implementing create, update, and delete functionality, either by subscribing a Custom Resource Provider to an SNS topic, or by implementing the logic in AWS Lambda.**

- D. Submit a ticket to the AWS Forums. AWS extends CloudFormation Resource Types by releasing tooling to the AWS Labs organization on GitHub. Their response time is usually 1 day, and they complete requests within a week or two.

Answer: C

Explanation:

Custom resources provide a way for you to write custom provisioning logic in AWS CloudFormation template and have AWS CloudFormation run it during a stack operation, such as when you create, update or delete a stack. For more information, see Custom Resources.

<http://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/template-custom-resources.html>

NEW QUESTION # 51

A company has a website in an AWS Elastic Beanstalk load balancing and automatic scaling environment. This environment has an Amazon RDS MySQL instance configured as its database resource. After a sudden increase in traffic, the website started dropping traffic. An administrator discovered that the application on some instances is not responding as the result of out-of-memory errors. Classic Load Balancer marked those instances as out of service, and the health status of Elastic Beanstalk enhanced health reporting is degraded. However, Elastic Beanstalk did not replace those instances. Because of the diminished capacity behind the Classic Load Balancer, the application response times are slower for the customers. Which action will permanently fix this issue?

- A. Write a cron script for restraining the web server process when memory is full, and deploy it with AWS Systems Manager.
- **B. Change the setting for the Auto Scaling group health check from Amazon EC2 to Elastic Load Balancing, and increase the capacity of the group.**
- C. Temporarily change the maximum number of instances in the Auto Scaling group to allow the group to support more traffic.
- D. Clone the Elastic Beanstalk environment. When the new environment is up, swap CNAME and terminate the earlier environment.

Answer: B

NEW QUESTION # 52

A DevOps Engineer is asked to implement a strategy for deploying updates to a web application with zero downtime. The application infrastructure is defined in AWS CloudFormation and is made up of an Amazon Route 53 record, an Application Load Balancer, Amazon EC2 instances in an EC2 Auto Scaling group, and Amazon DynamoDB tables. To avoid downtime, there must be an active instance serving the application at all times.

Which strategies will ensure the deployment happens with zero downtime? (Select TWO.)

- **A. In the CloudFormation template, modify the AWS::AutoScaling::AutoScalingGroup resource and add an UpdatePolicy attribute to define the required elements for a deployment with zero downtime.**
- B. Add a new Application Load Balancer and Auto Scaling group to the CloudFormation template. Modify the AWS::AutoScaling::AutoScalingGroup resource and add an UpdatePolicy attribute to perform rolling updates.
- C. In the CloudFormation template, modify the AWS::AutoScaling::DeploymentUpdates resource and add an UpdatePolicy attribute to define the required elements for a deployment with zero downtime.
- D. In the CloudFormation template, modify the UpgradePolicy attribute for the CloudFormation stack and specify the Auto Scaling group that will be updated. Configure MinSuccessfulInstancesPercent and PauseTime to ensure the deployment happens with zero downtime.
- **E. Add a new Application Load Balancer and Auto Scaling group to the CloudFormation template. Deploy new changes to the inactive Auto Scaling group. Use Route 53 to change the active Application Load Balancer.**

Answer: A,E

NEW QUESTION # 53

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