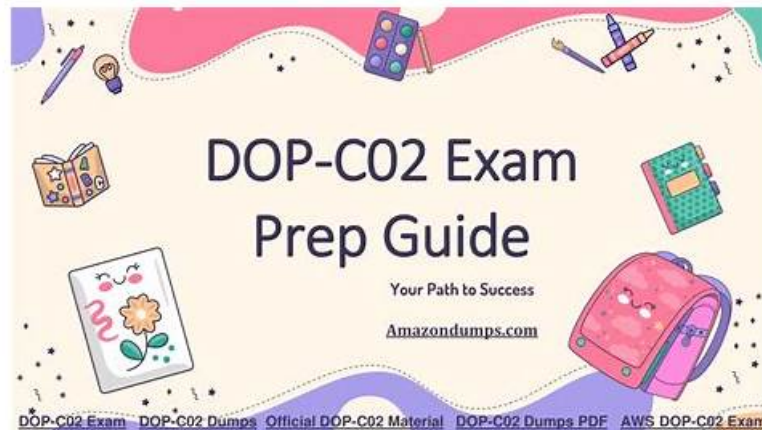


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## Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q148-Q153):

### NEW QUESTION # 148

An AWS CodePipeline pipeline has implemented a code release process. The pipeline is integrated with AWS CodeDeploy to deploy versions of an application to multiple Amazon EC2 instances for each CodePipeline stage.

During a recent deployment the pipeline failed due to a CodeDeploy issue. The DevOps team wants to improve monitoring and notifications during deployment to decrease resolution times.

What should the DevOps engineer do to create notifications. When issues are discovered?

- A. Implement AWS CloudTrail to record CodePipeline and CodeDeploy API call information create an AWS Lambda function to evaluate code deployment issues and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.
- B. Implement Amazon EventBridge for CodePipeline and CodeDeploy create an AWS Lambda function to evaluate code deployment issues, and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.
- C. Implement Amazon EventBridge for CodePipeline and CodeDeploy create an Amazon. Inspector assessment target to

evaluate code deployment issues and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.

- D. Implement Amazon CloudWatch Logs for CodePipeline and CodeDeploy create an AWS Config rule to evaluate code deployment issues, and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.

**Answer: B**

Explanation:

Explanation

AWS CloudWatch Events can be used to monitor events across different AWS resources, and a CloudWatch Event Rule can be created to trigger an AWS Lambda function when a deployment issue is detected in the pipeline. The Lambda function can then evaluate the issue and send a notification to the appropriate stakeholders through an Amazon SNS topic. This approach allows for real-time notifications and faster resolution times.

#### NEW QUESTION # 149

A company streams logs to CloudWatch Logs. Logs must be searchable for 30 days, low-latency accessible for 90 days, and occasionally retrieved after 180 days.

Which solution is MOST cost-effective?

- A. Configure log retention of 30 days and export to S3 via Kinesis Data Streams. Use S3 Lifecycle policies.
- B. Configure retention of 30 days and stream to S3 via Kinesis Data Firehose. Transition to S3 One Zone- IA and Glacier Flexible Retrieval.
- C. Configure retention of 30 days and stream via Kinesis Data Streams, then store in S3 Standard-IA and Glacier Instant Retrieval.
- **D. Configure retention of 30 days and stream via Kinesis Data Firehose to S3. Transition to S3 Standard- IA (90 days) and Glacier Deep Archive (180 days).**

**Answer: D**

Explanation:

Exporting logs using CloudWatch subscription filters + Firehose # S3 enables long-term archival. S3 lifecycle transitions optimize cost with Standard-IA (low-latency) and Deep Archive (long-term retention). This matches AWS best practice for cost-effective log retention.

#### NEW QUESTION # 150

A company is using AWS CodePipeline to deploy an application. According to a new guideline, a member of the company's security team must sign off on any application changes before the changes are deployed into production. The approval must be recorded and retained.

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

- **A. Create an AWS CloudTrail trail to deliver logs to Amazon S3.**
- B. Configure CodePipeline to write actions to an Amazon S3 bucket at the end of each pipeline stage.
- **C. Create a CodePipeline manual approval action before the deployment step. Create a policy that grants the security team access to approve manual approval stages.**
- D. Configure CodePipeline to write actions to Amazon CloudWatch Logs.
- E. Create a CodePipeline custom action to invoke an AWS Lambda function for approval. Create a policy that gives the security team access to manage CodePipeline custom actions.

**Answer: A,C**

Explanation:

To meet the new guideline for application deployment, the company can use a combination of AWS CodePipeline and AWS CloudTrail. A manual approval action in CodePipeline allows the security team to review and approve changes before they are deployed. This action can be configured to pause the pipeline until approval is granted, ensuring that no changes move to production without the necessary sign-off.

Additionally, by creating an AWS CloudTrail trail, all actions taken within CodePipeline, including approvals, are recorded and delivered to an Amazon S3 bucket. This provides an audit trail that can be retained for compliance and review purposes.

AWS CodePipeline's manual approval action provides a way to ensure that a member of the security team can review and approve

changes before they are deployed1.

AWS CloudTrail integration with CodePipeline allows for the recording and retention of all pipeline actions, including approvals, which can be stored in Amazon S3 for record-keeping2.

### NEW QUESTION # 151

A DevOps engineer uses AWS WAF to manage web ACLs across an AWS account. The DevOps engineer must ensure that AWS WAF is enabled for all Application Load Balancers (ALBs) in the account. The DevOps engineer uses an AWS CloudFormation template to deploy an individual ALB and AWS WAF as part of each application stack's deployment process. If AWS WAF is removed from the ALB after the ALB is deployed, AWS WAF must be added to the ALB automatically. Which solution will meet these requirements with the MOST operational efficiency?

- A. Configure an Amazon EventBridge rule to periodically call an AWS Lambda function that calls the detect-stack-drift API on the CloudFormation template. Configure the Lambda function to modify the ALB attributes with `waf.fail_open.enabled` set to true if the `AWS::WAFv2::WebACLAssociation` resource shows a status of drifted.
- **B. Enable AWS Config. Add the `alb-waf-enabled` managed rule. Create an AWS Systems Manager Automation document to add AWS WAF to an ALB. Edit the rule to automatically remediate. Select the Systems Manager Automation document as the remediation action.**
- C. Enable AWS Config. Add the `alb-waf-enabled` managed rule. Create an Amazon EventBridge rule to send all AWS Config `ConfigurationItemChangeNotification` notification types to an AWS Lambda function. Configure the Lambda function to call the AWS Config `start-resource-evaluation` API in detective mode.
- D. Configure an Amazon EventBridge rule to periodically call an AWS Lambda function that calls the detect-stack-drift API on the CloudFormation template. Configure the Lambda function to delete and redeploy the CloudFormation stack if the `AWS::WAFv2::WebACLAssociation` resource shows a status of drifted.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

AWS Config has a managed rule called `alb-waf-enabled` that checks whether AWS WAF is enabled on ALBs. AWS Config supports automatic remediation actions that can be triggered when noncompliance is detected.

By creating a Systems Manager Automation document that adds AWS WAF to the ALB and associating it as the remediation action for the AWS Config rule, the system can automatically detect and remediate any removal of AWS WAF from ALBs without manual intervention.

This is the most operationally efficient and reliable approach to ensure continuous compliance.

Option B lacks automatic remediation. Options C and D rely on drift detection and Lambda, which add complexity and risk downtime during stack replacement.

Reference:

AWS Config Managed Rules:

"The `alb-waf-enabled` rule checks for AWS WAF association with ALBs and supports automatic remediation using Systems Manager Automation." (AWS Config Managed Rules)

AWS Config Remediation:

"AWS Config automatic remediation can invoke Systems Manager Automation documents to remediate noncompliance." (AWS Config Remediation)

### NEW QUESTION # 152

A DevOps engineer is planning to deploy a Ruby-based application to production. The application needs to interact with an Amazon RDS for MySQL database and should have automatic scaling and high availability.

The stored data in the database is critical and should persist regardless of the state of the application stack.

The DevOps engineer needs to set up an automated deployment strategy for the application with automatic rollbacks. The solution also must alert the application team when a deployment fails.

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

- **A. Configure an Amazon EventBridge rule to monitor AWS Health events. Use an Amazon Simple Notification Service (Amazon SNS) topic as a target to alert the application team.**
- B. Use the rolling deployment method to deploy new application versions.
- C. Configure a notification email address that alerts the application team in the AWS Elastic Beanstalk configuration.
- **D. Deploy the application on AWS Elastic Beanstalk. Deploy a separate Amazon RDS for MySQL DB instance outside of Elastic Beanstalk.**
- **E. Use the immutable deployment method to deploy new application versions.**

- F. Deploy the application on AWS Elastic Beanstalk. Deploy an Amazon RDS for MySQL DB instance as part of the Elastic Beanstalk configuration.

**Answer: A,D,E**

Explanation:

Explanation

For deploying a Ruby-based application with requirements for interaction with an Amazon RDS for MySQL database, automatic scaling, high availability, and data persistence, the following steps will meet the requirements:

\* B. Deploy the application on AWS Elastic Beanstalk. Deploy a separate Amazon RDS for MySQL DB instance outside of Elastic Beanstalk. This approach ensures that the database persists independently of the Elastic Beanstalk environment, which can be torn down and recreated without affecting the database<sup>123</sup>.

\* E. Use the immutable deployment method to deploy new application versions. Immutable deployments provide a zero-downtime deployment method that ensures that if any part of the deployment process fails, the environment is rolled back to the original state automatically<sup>4</sup>.

\* D. Configure an Amazon EventBridge rule to monitor AWS Health events. Use an Amazon Simple Notification Service (Amazon SNS) topic as a target to alert the application team. This setup allows for automated monitoring and alerting of the application team in case of deployment failures or other health events<sup>56</sup>.

References:

\* AWS Elastic Beanstalk documentation on deploying Ruby applications<sup>1</sup>.

\* AWS documentation on application auto-scaling<sup>7</sup>.

\* AWS documentation on automated deployment strategies with automatic rollbacks and alerts<sup>456</sup>.

## NEW QUESTION # 153

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