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The DOP-C02 Exam covers a wide range of topics related to DevOps engineering on AWS, including continuous integration and delivery (CI/CD), monitoring and logging, infrastructure as code (IaC), security, and automation. Candidates are expected to demonstrate a deep understanding of AWS services and how they can be used to build and deploy applications in a DevOps environment. DOP-C02 exam consists of 75 multiple-choice and multiple-response questions and must be completed within 180 minutes.

Earning the AWS Certified DevOps Engineer - Professional certification can help individuals advance their careers in the field of DevOps and cloud computing. It demonstrates that they have the knowledge and skills needed to design, deploy, and manage complex applications on AWS using DevOps practices and principles.

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The AWS Certified DevOps Engineer - Professional (DOP-C02) certification exam is designed for IT professionals who work in a DevOps environment and have experience using AWS services for continuous integration and delivery. AWS Certified DevOps Engineer - Professional certification validates the candidate's knowledge and skills in areas such as automation, monitoring, and security practices, among others.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q262-Q267):

NEW QUESTION # 262

A development team is using AWS CodeCommit to version control application code and AWS CodePipeline to orchestrate software deployments. The team has decided to use a remote main branch as the trigger for the pipeline to integrate code changes. A developer has pushed code changes to the CodeCommit repository, but noticed that the pipeline had no reaction, even after 10

minutes.

Which of the following actions should be taken to troubleshoot this issue?

- A. Check that the developer's IAM role has permission to push to the CodeCommit repository.
- B. Check that the CodePipeline service role has permission to access the CodeCommit repository.
- C. Check to see if the pipeline failed to start because of CodeCommit errors in Amazon CloudWatch Logs.
- **D. Check that an Amazon EventBridge rule has been created for the main branch to trigger the pipeline.**

Answer: D

Explanation:

When you create a pipeline from CodePipeline during the step-by-step it creates a CloudWatch Event rule for a given branch and repo like this:

```
{
  "source": [
    "aws.codecommit"
  ],
  "detail-type": [
    "CodeCommit Repository State Change"
  ],
  "resources": [
    "arn:aws:codecommit:us-east-1:xxxx:repo-name"
  ],
  "detail": {
    "event": [
      "referenceCreated",
      "referenceUpdated"
    ],
    "referenceType": [
      "branch"
    ],
    "referenceName": [
      "master"
    ]
  }
}
```

<https://docs.aws.amazon.com/codepipeline/latest/userguide/pipelines-trigger-source-repo-changes-console.html>

NEW QUESTION # 263

A DevOps engineer needs to apply a core set of security controls to an existing set of AWS accounts. The accounts are in an organization in AWS Organizations. Individual teams will administer individual accounts by using the AdministratorAccess AWS managed policy. For all accounts, AWS CloudTrail and AWS Config must be turned on in all available AWS Regions. Individual account administrators must not be able to edit or delete any of the baseline resources. However, individual account administrators must be able to edit or delete their own CloudTrail trails and AWS Config rules.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Designate an AWS Config management account. Create AWS Config recorders in all accounts by using AWS CloudFormation StackSets. Deploy AWS Config rules to the organization by using the AWS Config management account. Create a CloudTrail organization trail in the organization's management account. Deny modification or deletion of the AWS Config recorders by using an SCP.
- **B. Create an AWS CloudFormation template that defines the standard account resources. Deploy the template to all accounts from the organization's management account by using CloudFormation StackSets. Create an SCP that prevents updates or deletions to CloudTrail resources or AWS Config resources unless the principal is an administrator of the organization's management account.**
- C. Create an AWS CloudFormation template that defines the standard account resources. Deploy the template to all accounts from the organization's management account by using CloudFormation StackSets. Set the stack policy to deny Update/Delete actions.
- D. Enable AWS Control Tower. Enroll the existing accounts in AWS Control Tower. Grant the individual account administrators access to CloudTrail and AWS Config.

Answer: B

NEW QUESTION # 264

An ecommerce company has chosen AWS to host its new platform. The company's DevOps team has started building an AWS Control Tower landing zone. The DevOps team has set the identity store within AWS IAM Identity Center (AWS Single Sign-On) to external identity provider (IdP) and has configured SAML 2.0.

The DevOps team wants a robust permission model that applies the principle of least privilege. The model must allow the team to build and manage only the team's own resources.

Which combination of steps will meet these requirements? (Choose three.)

- A. Enable attributes for access control in IAM Identity Center. Apply tags to users. Map the tags as key-value pairs.
- **B. Create permission sets. Attach an inline policy that includes the required permissions and uses the aws:PrincipalTag condition key to scope the permissions.**
- C. Enable attributes for access control in IAM Identity Center. Map attributes from the IdP as key-value pairs.
- **D. Create a group in the IdP. Place users in the group. Assign the group to accounts and the permission sets in IAM Identity Center.**
- E. Create a group in the IdP. Place users in the group. Assign the group to OUs and IAM policies.
- **F. Create IAM policies that include the required permissions. Include the aws:PrincipalTag condition key.**

Answer: B,D,F

NEW QUESTION # 265

A company has an AWS CodePipeline pipeline that is configured with an Amazon S3 bucket in the eu-west-1 Region. The pipeline deploys an AWS Lambda application to the same Region. The pipeline consists of an AWS CodeBuild project build action and an AWS CloudFormation deploy action.

The CodeBuild project uses the aws cloudformation package AWS CLI command to build an artifact that contains the Lambda function code's .zip file and the CloudFormation template. The CloudFormation deploy action references the CloudFormation template from the output artifact of the CodeBuild project's build action.

The company wants to also deploy the Lambda application to the us-east-1 Region by using the pipeline in eu-west-1. A DevOps engineer has already updated the CodeBuild project to use the aws cloudformation package command to produce an additional output artifact for us-east-1.

Which combination of additional steps should the DevOps engineer take to meet these requirements? (Choose two.)

- A. Create an S3 bucket in us-east-1. Configure S3 Cross-Region Replication (CRR) from the S3 bucket in eu-west-1 to the S3 bucket in us-east-1.
- B. Modify the pipeline to include the S3 bucket for us-east-1 as an artifact store. Create a new CloudFormation deploy action for us-east-1 in the pipeline. Configure the new deploy action to use the CloudFormation template from the us-east-1 output artifact.
- **C. Create a new CloudFormation deploy action for us-east-1 in the pipeline. Configure the new deploy action to use the CloudFormation template from the us-east-1 output artifact.**
- **D. Modify the CloudFormation template to include a parameter for the Lambda function code's zip file location. Create a new CloudFormation deploy action for us-east-1 in the pipeline. Configure the new deploy action to pass in the us-east-1 artifact location as a parameter override.**
- E. Create an S3 bucket in us-east-1. Configure the S3 bucket policy to allow CodePipeline to have read and write access.

Answer: C,D

Explanation:

Explanation

A: The CloudFormation template should be modified to include a parameter that indicates the location of the .zip file containing the Lambda function's code. This allows the CloudFormation deploy action to use the correct artifact depending on the region. This is critical because Lambda functions need to reference their code artifacts from the same region they are being deployed in. B: You would also need to create a new CloudFormation deploy action for the us-east-1 Region within the pipeline. This action should be configured to use the CloudFormation template from the artifact that was specifically created for us-east-1.

NEW QUESTION # 266

A company's application has an API that retrieves workload metrics. The company needs to audit, analyze, and visualize these

metrics from the application to detect issues at scale.

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

- **A. Create Amazon QuickSight datasets from the Amazon Athena views. Create a QuickSight analysis to visualize the workload metric data as a dashboard.**
- B. Configure an Amazon EventBridge schedule to invoke an AWS Lambda function that calls the API to retrieve workload metrics. Store the workload metric data in an Amazon DynamoDB table that has a DynamoDB stream enabled.
- **C. Configure an Amazon EventBridge schedule to invoke an AWS Lambda function that calls the API to retrieve workload metrics. Store the workload metric data in an Amazon S3 bucket.**
- D. Connect an AWS Glue crawler to the Amazon DynamoDB stream to catalog the workload metric data. Create views in Amazon Athena for the cataloged data.
- E. Create an Amazon CloudWatch dashboard that has custom widgets that invoke AWS Lambda functions. Configure the Lambda functions to query the workload metrics data from the Amazon Athena views.
- **F. Create an AWS Glue crawler to catalog the workload metric data in the Amazon S3 bucket. Create views in Amazon Athena for the cataloged data.**

Answer: A,C,F

Explanation:

The recommended architecture to audit, analyze, and visualize application workload metrics at scale involves:

* Using Amazon EventBridge to schedule AWS Lambda invocations that call the application API and fetch metrics (Option A). The data is stored in Amazon S3, which is ideal for scalable, cost-effective storage of large datasets.

* Cataloging the stored data with AWS Glue crawlers, enabling schema discovery and making data queryable via Amazon Athena (Option C).

* Visualizing the data by creating Amazon QuickSight datasets from Athena views and building dashboards for analysis (Option E).

Option B and D introduce DynamoDB, which is less suitable for large-scale analytics and Athena querying. Option F suggests querying Athena via Lambda widgets in CloudWatch, which adds complexity without significant benefit over QuickSight.

Reference:

Serverless Analytics Architecture on AWS: "Use Lambda + S3 + Glue + Athena + QuickSight for scalable data ingestion, cataloging, querying, and visualization." (AWS Analytics Reference Architecture) AWS Glue Crawlers and Athena: "Glue crawlers catalog data stored in S3 and create Athena tables to enable SQL querying." (AWS Glue Documentation) Amazon QuickSight for Visualization: "QuickSight enables creating interactive dashboards from Athena query results." (Amazon QuickSight Overview)

NEW QUESTION # 267

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