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Amazon DOP-C02 Certification Exam is intended for experienced DevOps engineers, as well as other IT professionals who work in a DevOps environment. DOP-C02 exam is designed to be challenging, and candidates are advised to have at least two years of hands-on experience working in a DevOps role before attempting the certification. Candidates who pass the exam will be certified as AWS Certified DevOps Engineers - Professionals, and will have the skills and knowledge necessary to design, manage, and maintain DevOps systems on the AWS platform.

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## Amazon DOP-C02 Reliable Test Online - DOP-C02 Pass Guide

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## Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q115-Q120):

### NEW QUESTION # 115

A company is launching an application. The application must use only approved AWS services. The account that runs the application was created less than 1 year ago and is assigned to an AWS Organizations OU.

The company needs to create a new Organizations account structure. The account structure must have an appropriate SCP that supports the use of only services that are currently active in the AWS account.

The company will use AWS Identity and Access Management (IAM) Access Analyzer in the solution.

Which solution will meet these requirements?

- A. Create an SCP that allows the services that IAM Access Analyzer identifies. Create an OU for the account. Move the account into the new OU. Attach the new SCP to the new OU. Detach the default FullAWSAccess SCP from the new OU.
- B. Create an SCP that allows the services that IAM Access Analyzer identifies. Create an OU for the account. Move the account into the new OU. Attach the new SCP to the management account. Detach the default FullAWSAccess SCP from the new OU.
- C. Create an SCP that allows the services that IAM Access Analyzer identifies. Attach the new SCP to the organization's root.
- D. Create an SCP that denies the services that IAM Access Analyzer identifies. Create an OU for the account. Move the account into the new OIJ. Attach the new SCP to the new OU.

**Answer: A**

Explanation:

To meet the requirements of creating a new Organizations account structure with an appropriate SCP that supports the use of only services that are currently active in the AWS account, the company should use the following solution:

Create an SCP that allows the services that IAM Access Analyzer identifies. IAM Access Analyzer is a service that helps identify potential resource-access risks by analyzing resource-based policies in the AWS environment. IAM Access Analyzer can also generate IAM policies based on access activity in the AWS CloudTrail logs. By using IAM Access Analyzer, the company can create an SCP that grants only the permissions that are required for the application to run, and denies all other services. This way, the company can enforce the use of only approved AWS services and reduce the risk of unauthorized access<sup>12</sup> Create an OU for the account. Move the account into the new OU. An OU is a container for accounts within an organization that enables you to group accounts that have similar business or security requirements. By creating an OU for the account, the company can apply policies and manage settings for the account as a group. The company should move the account into the new OU to make it subject to the policies attached to the OU<sup>3</sup> Attach the new SCP to the new OU. Detach the default FullAWSAccess SCP from the new OU. An SCP is a type of policy that specifies the maximum permissions for an organization or organizational unit (OU). By attaching the new SCP to the new OU, the company can restrict the services that are available to all accounts in that OU, including the account that runs the application. The company should also detach the default FullAWSAccess SCP from the new OU, because this policy allows all actions on all AWS services and might override or conflict with the new SCP<sup>45</sup> The other options are not correct because they do not meet the requirements or follow best practices. Creating an SCP that denies the services that IAM Access Analyzer identifies is not a good option because it might not cover all possible services that are not approved or required for the application. A deny policy is also more difficult to maintain and update than an allow policy. Creating an SCP that allows the services that IAM Access Analyzer identifies and attaching it to the organization's root is not a good option because it might affect other accounts and OUs in the organization that have different service requirements or approvals. Creating an SCP that allows the services that IAM Access Analyzer identifies and attaching it to the management account is not a valid option because SCPs cannot be attached directly to accounts, only to OUs or roots.

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1: Using AWS Identity and Access Management Access Analyzer - AWS Identity and Access Management

2: Generate a policy based on access activity - AWS Identity and Access Management

3: Organizing your accounts into OUs - AWS Organizations

4: Service control policies - AWS Organizations

5: How SCPs work - AWS Organizations

### NEW QUESTION # 116

A company's application uses a fleet of Amazon EC2 On-Demand Instances to analyze and process data. The EC2 instances are in

an Auto Scaling group. The Auto Scaling group is a target group for an Application Load Balancer (ALB). The application analyzes critical data that cannot tolerate interruption. The application also analyzes noncritical data that can withstand interruption. The critical data analysis requires quick scalability in response to real-time application demand. The noncritical data analysis involves memory consumption. A DevOps engineer must implement a solution that reduces scale-out latency for the critical data. The solution also must process the noncritical data.

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

- A. For the noncritical data, create a second Auto Scaling group. Choose the predefined memory utilization metric type for the target tracking scaling policy. Use Spot Instances. Add the new Auto Scaling group as the target group for the ALB. Modify the application to use two target groups for critical data and noncritical data.
- B. For the critical data, modify the existing Auto Scaling group. Create a warm pool instance in the stopped state. Define the warm pool size. Create a new version of the launch template that has detailed monitoring enabled. use Spot Instances.
- C. For the critical data, modify the existing Auto Scaling group. Create a lifecycle hook to ensure that bootstrap scripts are completed successfully. Ensure that the application on the instances is ready to accept traffic before the instances are registered. Create a new version of the launch template that has detailed monitoring enabled.
- **D. For the critical data, modify the existing Auto Scaling group. Create a warm pool instance in the stopped state. Define the warm pool size. Create a new version of the launch template that has detailed monitoring enabled. Use On-Demand Instances.**
- **E. For the noncritical data, create a second Auto Scaling group that uses a launch template. Configure the launch template to install the unified Amazon CloudWatch agent and to configure the CloudWatch agent with a custom memory utilization metric. Use Spot Instances. Add the new Auto Scaling group as the target group for the ALB. Modify the application to use two target groups for critical data and noncritical data.**

**Answer: D,E**

Explanation:

For the critical data, using a warm pool<sup>1</sup> can reduce the scale-out latency by having pre-initialized EC2 instances ready to serve the application traffic. Using On-Demand Instances can ensure that the instances are always available and not interrupted by Spot interruptions<sup>2</sup>.

For the noncritical data, using a second Auto Scaling group with Spot Instances can reduce the cost and leverage the unused capacity of EC2<sup>3</sup>. Using a launch template with the CloudWatch agent<sup>4</sup> can enable the collection of memory utilization metrics, which can be used to scale the group based on the memory demand.

Adding the second group as a target group for the ALB and modifying the application to use two target groups can enable routing the traffic based on the data type.

1: Warm pools for Amazon EC2 Auto Scaling 2: Amazon EC2 On-Demand Capacity Reservations 3: Amazon EC2 Spot Instances  
4: Metrics collected by the CloudWatch agent

#### NEW QUESTION # 117

A company is using AWS CodePipeline to automate its release pipeline. AWS CodeDeploy is being used in the pipeline to deploy an application to Amazon Elastic Container Service (Amazon ECS) using the blue/green deployment model. The company wants to implement scripts to test the green version of the application before shifting traffic. These scripts will complete in 5 minutes or less. If errors are discovered during these tests, the application must be rolled back.

Which strategy will meet these requirements?

- A. Add a hooks section to the CodeDeploy AppSpec file. Use the AfterAllowTraffic lifecycle event to invoke the test scripts. If errors are found, use the aws deploy stop-deployment CLI command to stop the deployment.
- B. Add a stage to the CodePipeline pipeline between the source and deploy stages. Use AWS CodeBuild to create a runtime environment and build commands in the buildspec file to invoke test scripts. If errors are found, use the aws deploy stop-deployment command to stop the deployment.
- **C. Add a hooks section to the CodeDeploy AppSpec file. Use the AfterAllowTestTraffic lifecycle event to invoke an AWS Lambda function to run the test scripts. If errors are found, exit the Lambda function with an error to initiate rollback.**
- D. Add a stage to the CodePipeline pipeline between the source and deploy stages. Use this stage to invoke an AWS Lambda function that will run the test scripts. If errors are found, use the aws deploy stop-deployment command to stop the deployment.

**Answer: C**

Explanation:

<https://docs.aws.amazon.com/codedeploy/latest/userguide/reference-appspec-file-structure-hooks.html>

### NEW QUESTION # 118

A company's organization in AWS Organizations has a single OU. The company runs Amazon EC2 instances in the OU accounts. The company needs to limit the use of each EC2 instance's credentials to the specific EC2 instance that the credential is assigned to. A DevOps engineer must configure security for the EC2 instances. Which solution will meet these requirements?

- A. Create an SCP that includes a list of acceptable VPC values and checks whether the value of the `aws:SourceVpc` condition key is in the list. In the same SCP check, define a list of acceptable IP address values and check whether the value of the `aws:VpcSourceIp` condition key is in the list. Deny access if either condition is false. Apply the SCP to each account in the organization.
- **B. Create an SCP that checks whether the values of the `aws:EC2InstanceSourceVPC` and `aws:SourceVpc` condition keys are the same. Deny access if the values are not the same. In the same SCP check, check whether the values of the `aws:EC2InstanceSourcePrivateIPv4` and `aws:VpcSourceIp` condition keys are the same. Deny access if the values are not the same. Apply the SCP to the OU.**
- C. Create an SCP that specifies the VPC CIDR block. Configure the SCP to check whether the value of the `aws:VpcSourceIp` condition key is in the specified block. In the same SCP check, check whether the values of the `aws:EC2InstanceSourcePrivateIPv4` and `aws:SourceVpc` condition keys are the same. Deny access if either condition is false. Apply the SCP to the OU.
- D. Create an SCP that checks whether the values of the `aws:EC2InstanceSourceVPC` and `aws:VpcSourceIp` condition keys are the same. Deny access if the values are not the same. In the same SCP check, check whether the values of the `aws:EC2InstanceSourcePrivateIPv4` and `aws:SourceVpc` condition keys are the same. Deny access if the values are not the same. Apply the SCP to each account in the organization.

**Answer: B**

Explanation:

Step 1: Using Service Control Policies (SCPs) for EC2 Security To limit the use of EC2 instance credentials to the specific EC2 instance they are assigned to, you can create a Service Control Policy (SCP) that verifies specific conditions, such as whether the EC2 instance's source VPC and private IP match expected values.

Action: Create an SCP that checks whether the values of the `aws:EC2InstanceSourceVPC` and `aws:SourceVpc` condition keys are the same. Deny access if they are not.

Why: This ensures that credentials cannot be used outside the designated EC2 instance or VPC.

Step 2: Further Validation with Private IPs The SCP should also verify that the EC2 instance's private IP matches the IP range specified for the VPC. If the instance's private IP does not match, access should be denied.

Action: In the same SCP, check whether the values of the `aws:EC2InstanceSourcePrivateIP` and `aws:VpcSourceIP` condition keys are the same. Deny access if they are not.

Why: This ensures that the credentials are only used within the specific EC2 instance and its associated VPC.

Reference: AWS documentation on Service Control Policies (SCPs).

This corresponds to Option B: Create an SCP that checks whether the values of the `aws:`

`EC2InstanceSourceVPC` and `aws:SourceVpc` condition keys are the same. Deny access if the values are not the same. In the same SCP check, check whether the values of the `aws:EC2InstanceSourcePrivateIP` and `aws:`

`VpcSourceIP` condition keys are the same. Deny access if the values are not the same. Apply the SCP to the OU.

### NEW QUESTION # 119

A company wants to use AWS Systems Manager documents to bootstrap physical laptops for developers. The bootstrap code is stored in GitHub. A DevOps engineer has already created a Systems Manager activation, installed the Systems Manager agent with the registration code, and installed an activation ID on all the laptops.

Which set of steps should be taken next?

- **A. Configure the Systems Manager document to use the `aws-downloadContent` plugin with a `sourceType` of `GitHub` and `sourceInfo` with the repository details.**
- B. Configure the Systems Manager document to use the `aws-softwareInventory` plugin and run the script from the Git repository.
- C. Configure the Systems Manager document to use the `aws-configurePackage` plugin with an `install` action and point to the Git repository.
- D. Configure the Systems Manager document to use the `AWS-RunShellScript` command to copy the files from GitHub to Amazon S3, then use the `aws-downloadContent` plugin with a `sourceType` of `S3`.

**Answer: A**

#### Explanation:

Configure the Systems Manager Document to Use the aws-downloadContent Plugin with a sourceType of GitHub and sourceInfo with the Repository Details:

The aws-downloadContent plugin can download content from various sources, including GitHub, which is necessary for bootstrapping the laptops with the code stored in the GitHub repository.

schemaVersion: '2.2'

description: "Download and run bootstrap script from GitHub"

mainSteps:

- action: aws:downloadContent

name: downloadBootstrapScript

inputs:

sourceType: GitHub

sourceInfo: '{"owner":"my-org","repository":"my-repo","path":"scripts/bootstrap.sh","getOptions":"branch:main"}' destinationPath: /tmp/bootstrap.sh

- action: aws:runShellScript

name: runBootstrapScript

inputs:

runCommand:

- chmod +x /tmp/bootstrap.sh

- /tmp/bootstrap.sh

This setup ensures that the bootstrap code is downloaded from GitHub and executed on the laptops using Systems Manager.

Reference:

AWS Systems Manager aws-downloadContent Plugin

Running Commands Using Systems Manager

## NEW QUESTION # 120

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