


DOP-C02 Vce & DOP-C02최신시험덤프공부자료

Amazon DOP-C02 AWS Certified DevOps Engineer - Professional 1



DOP-C02 Learning Mode - DOP-C02 Dumps Vce

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<https://drive.google.com/open?id=1XUKdyO6i4O7S6gipN72tBOYvFq4uQ74D>

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>> DOP-C02 Vce <<

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요.

최신 AWS Certified Professional DOP-C02 무료 샘플문제 (Q280-Q285):

질문 # 280

A company in a highly regulated industry is building an artifact by using AWS CodeBuild and AWS CodePipeline. The company must connect to an external authenticated API during the building process.

The company's DevOps engineer needs to encrypt the build outputs by using an AWS Key Management Service (AWS KMS) key. The external API credentials must be reset each month. The DevOps engineer has created a new key in AWS KMS.

Which solution will meet these requirements?

- A. Store the API credentials in AWS Systems Manager Parameter Store. Update the key policy for the CodeBuild IAM service role to have access to the KMS key. Set CODEBUILD_KMS_KEY_ID as the new key ID.
- **B. Store the API credentials in AWS Secrets Manager. Update the key policy for the CodeBuild IAM service role to have access to the KMS key. Set CODEBUILD_KMS_KEY_ID as the new key ID.**
- C. Store the API credentials in AWS Systems Manager Parameter Store. Update the key policy for the CodePipeline IAM service role to have access to the KMS key. Add the key to the pipeline.
- D. Store the API credentials in AWS Secrets Manager. Update the key policy for the CodePipeline IAM service role to have access to the KMS key. Add the key to the pipeline.

정답: B

질문 # 281

A Company uses AWS CodeCommit for source code control. Developers apply their changes to various feature branches and create pull requests to move those changes to the main branch when the changes are ready for production.

The developers should not be able to push changes directly to the main branch. The company applied the AWSCodeCommitPowerUser managed policy to the developers' IAM role, and now these developers can push changes to the main branch directly on every repository in the AWS account.

What should the company do to restrict the developers' ability to push changes to the main branch directly?

- A. Remove the IAM policy, and add an AWSCodeCommitReadOnly managed policy. Add an Allow rule for the GitPush and PutFile actions for the specific repositories in the policy statement with a condition that references the main branch.
 - B. Modify the IAM policy Include a Deny rule for the GitPush and PutFile actions for the specific repositories in the policy statement with a condition that references the main branch.
 - C. Create an additional policy to include an Allow rule for the GitPush and PutFile actions. Include a restriction for the specific repositories in the policy statement with a condition that references the feature branches.
 - **D. Create an additional policy to include a Deny rule for the GitPush and PutFile actions. Include a restriction for the specific repositories in the policy statement with a condition that references the main branch.**
- A Create an additional policy to include a Deny rule for the GitPush and PutFile actions Include a restriction for the specific repositories in the policy statement with a condition that references the main branch**

정답: D

설명:

Explanation

By default, the AWSCodeCommitPowerUser managed policy allows users to push changes to any branch in any repository in the AWS account. To restrict the developers' ability to push changes to the main branch directly, an additional policy is needed that explicitly denies these actions for the main branch.

The Deny rule should be included in a policy statement that targets the specific repositories and includes a condition that references the main branch. The policy statement should look something like this:

```
{
  "Effect": "Deny",
  "Action": [
    "codecommit:GitPush",
    "codecommit:PutFile"
  ],
  "Resource": "arn:aws:codecommit:<region>:<account-id>:<repository-name>",
  "Condition": {
    "StringEqualsIfExists": {
```

```
"codecommit:References": [
  "refs/heads/main"
]
}
```

질문 # 282

A company is refactoring applications to use AWS. The company identifies an internal web application that needs to make Amazon S3 API calls in a specific AWS account.

The company wants to use its existing identity provider (IdP) `auth.company.com` for authentication. The IdP supports only OpenID Connect (OIDC). A DevOps engineer needs to secure the web application's access to the AWS account.

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

- A. Create an IAM role that has a policy that allows the necessary S3 actions. Configure the role's trust policy to allow the OIDC IdP to assume the role if the `sts.amazon.com:aud` context key is `appid` from `idp`.
- B. Configure AWS IAM Identity Center. Configure an IdP. Upload the IdP metadata from the existing IdP.
- C. Configure the web application to use the `AssumeRoleWithWebIdentity` API operation to retrieve temporary credentials. Use the temporary credentials to make the S3 API calls.
- D. Create an IAM role that has a policy that allows the necessary S3 actions. Configure the role's trust policy to allow the OIDC IdP to assume the role if the `auth.company.com:aud` context key is `appid_from_idp`.
- E. Configure the web application to use the `GetFederationToken` API operation to retrieve temporary credentials. Use the temporary credentials to make the S3 API calls.
- F. Create an IAM IdP by using the provider URL, audience, and signature from the existing IdP.

정답: C,D,F

설명:

Step 1: Creating an Identity Provider in IAM

You first need to configure AWS to trust the external identity provider (IdP), which in this case supports OpenID Connect (OIDC). The IdP will handle the authentication, and AWS will handle the authorization based on the IdP's token.

Action: Create an IAM Identity Provider (IdP) in AWS using the existing provider's URL, audience, and signature. This step is essential for establishing trust between AWS and the external IdP.

Why: This allows AWS to accept tokens from your external IdP (`auth.company.com`) for authentication.

Reference:

So, this corresponds to Option B: Create an IAM IdP by using the provider URL, audience, and signature from the existing IdP.

Step 2: Creating an IAM Role with Specific Permissions

Next, you need to create an IAM role with a trust policy that allows the external IdP to assume it when certain conditions are met. Specifically, the trust policy needs to allow the role to be assumed based on the context key `auth.company.com:aud` (audience claim in the token).

Action: Create an IAM role that has the necessary permissions (e.g., Amazon S3 access). The role's trust policy should specify the OIDC IdP as the trusted entity and validate the audience claim (`auth.company.com:aud`), which comes from the token provided by the IdP.

Why: This step ensures that only the specified web application authenticated via OIDC can assume the IAM role to make API calls. This corresponds to Option D: Create an IAM role that has a policy that allows the necessary S3 actions. Configure the role's trust policy to allow the OIDC IdP to assume the role if the `auth.company.com:aud` context key is `appid_from_idp`.

Step 3: Using Temporary Credentials via `AssumeRoleWithWebIdentity` API

To securely make Amazon S3 API calls, the web application will need temporary credentials. The web application can use the `AssumeRoleWithWebIdentity` API call to assume the IAM role configured in the previous step and obtain temporary AWS credentials. These credentials can then be used to interact with Amazon S3.

Action: The web application must be configured to call the `AssumeRoleWithWebIdentity` API operation, passing the OIDC token from the IdP to obtain temporary credentials.

Why: This allows the web application to authenticate via the external IdP and then authorize access to AWS resources securely using short-lived credentials.

This corresponds to Option E: Configure the web application to use the `AssumeRoleWithWebIdentity` API operation to retrieve temporary credentials. Use the temporary credentials to make the S3 API calls.

Summary of Selected Answers:

B: Create an IAM IdP by using the provider URL, audience, and signature from the existing IdP.

D: Create an IAM role that has a policy that allows the necessary S3 actions. Configure the role's trust policy to allow the OIDC IdP to assume the role if the `auth.company.com:aud` context key is `appid_from_idp`.

E: Configure the web application to use the `AssumeRoleWithWebIdentity` API operation to retrieve temporary credentials. Use the

temporary credentials to make the S3 API calls.

This setup enables the web application to use OpenID Connect (OIDC) for authentication and securely interact with Amazon S3 in a specific AWS account using short-lived credentials obtained through AWS Security Token Service (STS).

질문 # 283

A company's security team requires that all external Application Load Balancers (ALBs) and Amazon API Gateway APIs are associated with AWS WAF web ACLs. The company has hundreds of AWS accounts, all of which are included in a single organization in AWS Organizations. The company has configured AWS Config for the organization. During an audit, the company finds some externally facing ALBs that are not associated with AWS WAF web ACLs.

Which combination of steps should a DevOps engineer take to prevent future violations? (Choose two.)

- A. Create an AWS Firewall Manager policy to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.
- B. Create an Amazon GuardDuty policy to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.
- C. Delegate AWS Firewall Manager to a security account.
- D. Delegate Amazon GuardDuty to a security account.
- E. Configure an AWS Config managed rule to attach AWS WAF web ACLs to any newly created ALBs and API Gateway APIs.

정답: A,C

설명:

If instead you want to automatically apply the policy to existing in-scope resources, choose Auto remediate any noncompliant resources. This option creates a web ACL in each applicable account within the AWS organization and associates the web ACL with the resources in the accounts. When you choose Auto remediate any noncompliant resources, you can also choose to remove existing web ACL associations from in-scope resources, for the web ACLs that aren't managed by another active Firewall Manager policy. If you choose this option, Firewall Manager first associates the policy's web ACL with the resources, and then removes the prior associations. If a resource has an association with another web ACL that's managed by a different active Firewall Manager policy, this choice doesn't affect that association.

질문 # 284

A company deploys its corporate infrastructure on AWS across multiple AWS Regions and Availability Zones. The infrastructure is deployed on Amazon EC2 instances and connects with AWS IoT Greengrass devices. The company deploys additional resources on on-premises servers that are located in the corporate headquarters.

The company wants to reduce the overhead involved in maintaining and updating its resources. The company's DevOps team plans to use AWS Systems Manager to implement automated management and application of patches. The DevOps team confirms that Systems Manager is available in the Regions that the resources are deployed in. Systems Manager also is available in a Region near the corporate headquarters.

Which combination of steps must the DevOps team take to implement automated patch and configuration management across the company's EC2 instances IoT devices and on-premises infrastructure? (Select THREE.)

- A. Use Systems Manager Patch Manager to schedule patching IoT the EC2 instances AWS IoT Greengrass devices and on-premises servers as a Systems Manager maintenance window task.
- B. Apply tags to all the EC2 instances, AWS IoT Greengrass devices, and on-premises servers. Use Systems Manager Session Manager to push patches to all the tagged devices.
- C. Use Systems Manager Run Command to schedule patching for the EC2 instances AWS IoT Greengrass devices and on-premises servers.
- D. Configure Amazon EventBridge to monitor Systems Manager Patch Manager for updates to patch baselines. Associate Systems Manager Run Command with the event to initiate a patch action for all EC2 instances AWS IoT Greengrass devices and on-premises servers.
- E. Create an IAM instance profile for Systems Manager Attach the instance profile to all the EC2 instances in the AWS account. For the AWS IoT Greengrass devices and on-premises servers create an IAM service role for Systems Manager.
- F. Generate a managed-instance activation Use the Activation Code and Activation ID to install Systems Manager Agent (SSM Agent) on each server in the on-premises environment Update the AWS IoT Greengrass IAM token exchange role Use the role to deploy SSM Agent on all the IoT devices.

정답: A,E,F

설명:

Explanation

<https://aws.amazon.com/blogs/mt/how-to-centrally-manage-aws-iot-greengrass-devices-using-aws-systems-manager>

질문 # 285

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