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The DOP-C02 exam covers a broad range of topics related to DevOps, including continuous integration and delivery, infrastructure as code, monitoring and logging, security and compliance, and automation and optimization of AWS services. To pass the exam, candidates must demonstrate their ability to design and implement scalable, reliable, and secure DevOps solutions using AWS technologies and best practices. AWS Certified DevOps Engineer - Professional certification is highly valued by employers and can help DevOps professionals advance their careers and increase their earning potential.

Amazon DOP-C02 exam is a professional-level certification offered by Amazon Web Services (AWS) that validates an individual's expertise in DevOps practices and techniques. DevOps is a rapidly growing approach to software development that emphasizes collaboration, automation, and continuous delivery. AWS Certified DevOps Engineer - Professional certification is designed for experienced DevOps professionals who have a deep understanding of AWS services and DevOps principles.

Amazon DOP-C02 Certification Exam is designed to test an individual's ability to implement and manage a DevOps environment on the AWS platform. This includes designing and implementing continuous delivery systems, continuous integration, and continuous deployment systems. It also measures an individual's knowledge of monitoring, logging, and metrics systems on the AWS platform, as well as their ability to implement and manage security and compliance policies.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q387-Q392):

NEW QUESTION # 387

A company is hosting a static website from an Amazon S3 bucket. The website is available to customers at example.com. The company uses an Amazon Route 53 weighted routing policy with a TTL of 1 day. The company has decided to replace the existing static website with a dynamic web application. The dynamic web application uses an Application Load Balancer (ALB) in front of a fleet of Amazon EC2 instances.

On the day of production launch to customers, the company creates an additional Route 53 weighted DNS record entry that points to the ALB with a weight of 255 and a TTL of 1 hour. Two days later, a DevOps engineer notices that the previous static website is displayed sometimes when customers navigate to example.com.

How can the DevOps engineer ensure that the company serves only dynamic content for example.com?

- A. Configure webpage redirect requests on the S3 bucket with a hostname that redirects to the ALB.
- B. Delete all objects, including previous versions, from the S3 bucket that contains the static website content.
- C. Update the weighted DNS record entry that points to the S3 bucket. Apply a weight of 0. Specify the domain reset option to propagate changes immediately.
- D. Remove the weighted DNS record entry that points to the S3 bucket from the example.com hosted zone. Wait for DNS propagation to become complete.

Answer: D

NEW QUESTION # 388

A company uses AWS CodeArtifact to centrally store Python packages. The CodeArtifact repository is configured with the following repository policy.

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "codeartifact:DescribePackageVersion",
        "codeartifact:DescribeRepository",
        "codeartifact:GetPackageVersionReadme",
        "codeartifact:GetRepositoryEndpoint",
        "codeartifact>ListPackageVersionAssets",
        "codeartifact>ListPackageVersionDependencies",
        "codeartifact>ListPackageVersions",
        "codeartifact>ListPackages",
        "codeartifact:ReadFromRepository"
      ],
      "Effect": "Allow",
      "Resource": "*",
      "Principal": "*",
      "Condition": {
        "StringEquals": {
          "aws:PrincipalOrgID": [
            "o-xxxxxxxxxxxx"
          ]
        }
      }
    }
  ]
}

```



A development team is building a new project in an account that is in an organization in AWS Organizations.

The development team wants to use a Python library that has already been stored in the CodeArtifact repository in the organization. The development team uses AWS CodePipeline and AWS CodeBuild to build the new application. The CodeBuild job that the development team uses to build the application is configured to run in a VPC. Because of compliance requirements the VPC has no internet connectivity.

The development team creates the VPC endpoints for CodeArtifact and updates the CodeBuild buildspec yaml file. However, the development team cannot download the Python library from the repository.

Which combination of steps should a DevOps engineer take so that the development team can use Code Artifact? (Select TWO.)

- A. Create an Amazon S3 gateway endpoint Update the route tables for the subnets that are running the CodeBuild job.
- B. Specify the account that hosts the repository as the delegated administrator for CodeArtifact in the organization.
- C. Update the role that the CodeBuild project uses so that the role has sufficient permissions to use the CodeArtifact repository.
- D. Update the repository policy's Principal statement to include the ARN of the role that the CodeBuild project uses.
- E. Share the CodeArtifact repository with the organization by using AWS Resource Access Manager (AWS RAM).

Answer: A,C

Explanation:

"AWS CodeArtifact operates in multiple Availability Zones and stores artifact data and metadata in Amazon S3 and Amazon DynamoDB. Your encrypted data is redundantly stored across multiple facilities and multiple devices in each facility, making it highly available and highly durable." <https://aws.amazon.com/codeartifact/features/> With no internet connectivity, a gateway endpoint becomes necessary to access S3.

NEW QUESTION # 389

A company has an AWS account named PipelineAccount. The account manages a pipeline in AWS CodePipeline. The account uses an IAM role named CodePipeline_Service_Role and produces an artifact that is stored in an Amazon S3 bucket. The company uses a customer managed AWS KMS key to encrypt objects in the S3 bucket.

A DevOps engineer wants to configure the pipeline to use an AWS CodeDeploy application in an AWS account named CodeDeployAccount to deploy the produced artifact.

The DevOps engineer updates the KMS key policy to grant the CodeDeployAccount account permission to use the key. The DevOps engineer configures an IAM role named DevOps_Role in the CodeDeployAccount account that has access to the CodeDeploy resources that the pipeline requires. The DevOps engineer updates an Amazon EC2 instance role that operates within the CodeDeployAccount account to allow access to the S3 bucket and the KMS key that is in the PipelineAccount account.

Which additional steps will meet these requirements?

- A. Update the S3 bucket policy to grant the PipelineAccount account access to the S3 bucket. Configure the DevOps_Role IAM role to have an IAM trust policy that allows the PipelineAccount account to assume the role. Update the CodePipeline_Service_Role IAM to grant permission to assume the DevOps_Role role.
- B. Update the S3 bucket policy to grant the CodeDeployAccount account access to the S3 bucket. Configure the

DevOps_Role IAM role to have an IAM trust policy that allows the CodeDeployAccount account to assume the role. Update the CodePipeline_Service_Role IAM role to grant permission to assume the DevOps_Role role.

- C. Update the S3 bucket policy to grant the CodeDeployAccount account access to the S3 bucket. Configure the DevOps_Role IAM role to have an IAM trust policy that allows the PipelineAccount account to assume the role. Update the DevOps_Role IAM role to grant permission to assume CodePipeline_Service_Role role.
- D. **Update the S3 bucket policy to grant the CodeDeployAccount account access to the S3 bucket.** Configure the DevOps_Role IAM role to have an IAM trust policy that allows the PipelineAccount account to assume the role. Update the CodePipeline_Service_Role IAM role to grant permission to assume the DevOps_Role role.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of DevOps Engineer Documents Only:

For cross-account deployments, CodePipeline must assume a role in the target account. Configure S3 bucket policy to allow the target account (CodeDeployAccount) access, trust relationship in DevOps_Role to allow assumption by the pipeline's account (PipelineAccount), and update CodePipeline_Service_Role with sts:

AssumeRole permissions. This cross-account pipeline setup is documented in "Cross-Account Access for AWS CodePipeline."

NEW QUESTION # 390

A DevOps engineer needs to configure a blue green deployment for an existing three-tier application. The application runs on Amazon EC2 instances and uses an Amazon RDS database. The EC2 instances run behind an Application Load Balancer (ALB) and are in an Auto Scaling group.

The DevOps engineer has created a launch template and an Auto Scaling group for the blue environment. The DevOps engineer also has created a launch template and an Auto Scaling group for the green environment. Each Auto Scaling group deploys to a matching blue or green target group. The target group also specifies which software blue or green gets loaded on the EC2 instances. The ALB can be configured to send traffic to the blue environments target group or the green environments target group. An Amazon Route 53 record for www.example.com points to the ALB.

The deployment must move traffic all at once between the software on the blue environment's EC2 instances to the newly deployed software on the green environments EC2 instances. What should the DevOps engineer do to meet these requirements?

- A. Use an AWS CLI command to update the ALB to send traffic to the green environment's target group. Then start a rolling restart of the Auto Scaling group for the green environment to deploy the new software on the green environment's EC2 instances.
- B. Update the launch template to deploy the green environment's software on the blue environment's EC2 instances. Keep the target groups and Auto Scaling groups unchanged in both environments. Perform a rolling restart of the blue environment's EC2 instances.
- C. Start a rolling restart of the Auto Scaling group for the green environment to deploy the new software on the green environment's EC2 instances. When the rolling restart is complete, update the Route 53 DNS to point to the green environments endpoint on the ALB.
- D. **Start a rolling restart to the Auto Scaling group for the green environment to deploy the new software on the green environment's EC2 instances. When the rolling restart is complete, use an AWS CLI command to update the ALB to send traffic to the green environment's target group.**

Answer: D

Explanation:

This solution will meet the requirements because it will use a rolling restart to gradually replace the EC2 instances in the green environment with new instances that have the new software version installed. A rolling restart is a process that terminates and launches instances in batches, ensuring that there is always a minimum number of healthy instances in service. This way, the green environment can be updated without affecting the availability or performance of the application. When the rolling restart is complete, the DevOps engineer can use an AWS CLI command to modify the listener rules of the ALB and change the default action to forward traffic to the green environment's target group. This will switch the traffic from the blue environment to the green environment all at once, as required by the question.

NEW QUESTION # 391

A company wants to use AWS CloudFormation for infrastructure deployment. The company has strict tagging and resource requirements and wants to limit the deployment to two Regions. Developers will need to deploy multiple versions of the same application.

Which solution ensures resources are deployed in accordance with company policy?

- A. Create AWS Trusted Advisor checks to find and remediate unapproved CloudFormation StackSets.
- **B. Create AWS Service Catalog products with approved CloudFormation templates.**
- C. Create a Cloud Formation drift detection operation to find and remediate unapproved CloudFormation StackSets.
- D. Create CloudFormation StackSets with approved CloudFormation templates.

Answer: B

Explanation:

Explanation

service catalog uses stacksets and can enforce tag and restrict resources AWS Customer case with tag enforcement
<https://aws.amazon.com/ko/blogs/apn/enforce-centralized-tag-compliance-using-aws-service-catalog-amazon-dy> And Youtube video showing how to restrict resources per user with portfolio
<https://www.youtube.com/watch?v=LzvhTcqyog>

NEW QUESTION # 392

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