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spend 20-30 hours on studying; you will have more free time to do other things.

To earn the Amazon DOP-C02 certification, candidates must pass a challenging two-part exam that covers a range of topics related to DevOps and AWS. The first part of the exam focuses on core DevOps concepts, such as continuous integration, continuous delivery, and infrastructure as code. The second part of the exam tests candidates on their knowledge of AWS services and how they can be used to implement DevOps practices effectively.

The Amazon DOP-C02 Exam covers a variety of topics and skills related to DevOps, including continuous integration and delivery (CI/CD), monitoring and logging, infrastructure as code, security, and automation. It is intended for individuals who have experience working with AWS services and tools and have a solid understanding of DevOps principles and practices.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q20-Q25):

NEW QUESTION # 20

A rapidly growing company wants to scale for developer demand for AWS development environments. Development environments are created manually in the AWS Management Console. The networking team uses AWS CloudFormation to manage the networking infrastructure, exporting stack output values for the Amazon VPC and all subnets. The development environments have common standards, such as Application Load Balancers, Amazon EC2 Auto Scaling groups, security groups, and Amazon DynamoDB tables.

To keep up with demand, the DevOps engineer wants to automate the creation of development environments. Because the infrastructure required to support the application is expected to grow, there must be a way to easily update the deployed infrastructure. CloudFormation will be used to create a template for the development environments.

Which approach will meet these requirements and quickly provide consistent AWS environments for developers?

- A. Use nested stacks to define common infrastructure components. To access the exported values, use `TemplateURL` to reference the networking team's template. To retrieve Virtual Private Cloud (VPC) and subnet values, use `Fn::ImportValue` intrinsic functions in the Parameters section of the root template. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.
- B. Use `Fn::ImportValue` intrinsic functions in the Parameters section of the root template to retrieve Virtual Private Cloud (VPC) and subnet values. Define the development resources in the order they need to be created in the CloudFormation nested stacks. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.
- C. Use `Fn::ImportValue` intrinsic functions in the Resources section of the template to retrieve Virtual Private Cloud (VPC) and subnet values. Use CloudFormation StackSets for the development environments, using the `Count` input parameter to indicate the number of environments needed. Use the `UpdateStackSet` command to update existing development environments.
- D. Use nested stacks to define common infrastructure components. Use `Fn::ImportValue` intrinsic functions with the resources of the nested stack to retrieve Virtual Private Cloud (VPC) and subnet values. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.

Answer: D

NEW QUESTION # 21

A company is using AWS Organizations to centrally manage its AWS accounts. The company has turned on AWS Config in each member account by using AWS CloudFormation StackSets. The company has configured trusted access in Organizations for AWS Config and has configured a member account as a delegated administrator account for AWS Config. A DevOps engineer needs to implement a new security policy. The policy must require all current and future AWS member accounts to use a common baseline of AWS Config rules that contain remediation actions that are managed from a central account. Non-administrator users who can access member accounts must not be able to modify this common baseline of AWS Config rules that are deployed into each member account. Which solution will meet these requirements?

- A. Create an AWS Config conformance pack that contains the AWS Config rules and remediation actions. Deploy the pack from the Organizations management account by using CloudFormation StackSets.
- B. Create an AWS Config conformance pack that contains the AWS Config rules and remediation actions. Deploy the pack from the delegated administrator account by using AWS Config.
- C. Create a CloudFormation template that contains the AWS Config rules and remediation actions. Deploy the template from the delegated administrator account by using AWS Config.
- D. Create a CloudFormation template that contains the AWS Config rules and remediation actions. Deploy the template from the Organizations management account by using CloudFormation StackSets.

Answer: B

Explanation:

The correct answer is D. Creating an AWS Config conformance pack that contains the AWS Config rules and remediation actions and deploying it from the delegated administrator account by using AWS Config will meet the requirements. A conformance pack is a collection of AWS Config rules and remediation actions that can be easily deployed as a single entity in an account and a region or across an organization in AWS Organizations¹. By using the delegated administrator account, the DevOps engineer can centrally manage the conformance pack and prevent non-administrator users from modifying it in the member accounts. Option A is incorrect because creating a CloudFormation template that contains the AWS Config rules and remediation actions and deploying it from the Organizations management account by using CloudFormation StackSets will not prevent non-administrator users from modifying the AWS Config rules in the member accounts. Option B is incorrect because deploying the conformance pack from the Organizations management account by using CloudFormation StackSets will not use the trusted access feature of AWS Config and will require additional permissions and resources. Option C is incorrect because creating a CloudFormation template that contains the AWS Config rules and remediation actions and deploying it from the delegated administrator account by using AWS Config will not leverage the benefits of conformance packs, such as simplified deployment and management. Reference:

Conformance Packs - AWS Config

Certified DevOps Engineer - Professional (DOP-C02) Study Guide (page 176)

NEW QUESTION # 22

A company has proprietary data available by using an Amazon CloudFront distribution. The company needs to ensure that the distribution is accessible by only users from the corporate office that have a known set of IP address ranges. An AWS WAF web ACL is associated with the distribution and has a default action set to Count.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create a new regex pattern set. Add the regex pattern set to a new rule group. Set the default action on the existing web ACL to Allow. Add a rule that has priority 0 that allows traffic based on the regex pattern set.
- **B. Create a WAF IP address set that matches the corporate office IP address range. Set the default action on the existing web ACL to Block. Add a rule that has priority 0 that allows traffic from the IP address set.**
- C. Create a new regex pattern set. Add the regex pattern set to a new rule group. Create a new web ACL that has a default action set to Block. Associate the web ACL with the CloudFront distribution. Add a rule that allows traffic based on the new rule group.
- D. Create an AWS WAF IP address set that matches the corporate office IP address range. Create a new web ACL that has a default action set to Allow. Associate the web ACL with the CloudFront distribution. Add a rule that allows traffic from the IP address set.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To restrict access to CloudFront to a specific IP address range:

* Create an AWS WAF IP address set with the corporate office IPs.

* Modify the existing Web ACL's default action to Block (deny all except explicitly allowed).

* Add a high-priority rule that allows traffic from the IP address set (the corporate IPs). This way, only requests from the corporate IPs are allowed; all others are blocked. Regex pattern sets are not necessary for IP-based restrictions and add complexity. Setting default action to Allow with exceptions is less secure and more complex to manage.

References:

AWS WAF IP Set Examples

Restricting Access by IP Address

NEW QUESTION # 23

A company deploys an application on on-premises devices in the company's on-premises data center. The company uses an AWS Direct Connect connection between the data center and the company's AWS account.

During initial setup of the on-premises devices and during application updates, the application needs to retrieve configuration files from an Amazon Elastic File System (Amazon EFS) file system. All traffic from the on-premises devices to Amazon EFS must remain private and encrypted. The on-premises devices must follow the principle of least privilege for AWS access. The company's DevOps team needs the ability to revoke access from a single device without affecting the access of the other devices. Which combination of steps will meet these requirements? (Select TWO.)

- **A. Generate certificates for each on-premises device in AWS Private Certificate Authority. Create a trust anchor in IAM**

Roles Anywhere that references an AWS Private CA. Create an IAM role that trusts IAM Roles Anywhere. Attach the AmazonElasticFileSystemClientReadWriteAccess to the role. Create an IAM Roles Anywhere profile for the IAM role. Configure the AWS CLI on the on-premises devices to use the aws_signing_helper command to obtain credentials.

- B. Create an IAM user that has an access key and a secret key for all devices. Attach the AmazonElasticFileSystemClientReadWriteAccess policy to the IAM user. Configure the AWS CLI on the on-premises devices to use the IAM user's access key and secret key.
- C. Create an IAM user that has an access key and a secret key for each device. Attach the AmazonElasticFileSystemFullAccess policy to all IAM users. Configure the AWS CLI on the on-premises devices to use the IAM user's access key and secret key.
- D. Use the amazon-efs-utils package to mount the EFS file system.
- E. Use the native Linux NFS client to mount the EFS file system.

Answer: A,D

NEW QUESTION # 24

A developer is maintaining a fleet of 50 Amazon EC2 Linux servers. The servers are part of an Amazon EC2 Auto Scaling group, and also use Elastic Load Balancing for load balancing.

Occasionally, some application servers are being terminated after failing ELB HTTP health checks. The developer would like to perform a root cause analysis on the issue, but before being able to access application logs, the server is terminated.

How can log collection be automated?

- A. Use Auto Scaling lifecycle hooks to put instances in a Terminating:Wait state. Create an Amazon EventBridge rule for EC2 Instance-terminate Lifecycle Action and trigger an AWS Lambda function that invokes an SSM Run Command script to collect logs, push them to Amazon S3, and complete the lifecycle action once logs are collected.
- B. Use Auto Scaling lifecycle hooks to put instances in a Pending:Wait state. Create an Amazon CloudWatch alarm for EC2 Instance Terminate Successful and trigger an AWS Lambda function that invokes an SSM Run Command script to collect logs, push them to Amazon S3, and complete the lifecycle action once logs are collected.
- C. Use Auto Scaling lifecycle hooks to put instances in a Terminating:Wait state. Create an AWS Config rule for EC2 Instance-terminate Lifecycle Action and trigger a step function that invokes a script to collect logs, push them to Amazon S3, and complete the lifecycle action once logs are collected.
- D. Use Auto Scaling lifecycle hooks to put instances in a Terminating:Wait state. Create an Amazon CloudWatch subscription filter for EC2 Instance Terminate Successful and trigger a CloudWatch agent that invokes a script to collect logs, push them to Amazon S3, and complete the lifecycle action once logs are collected.

Answer: A

Explanation:

Explanation

<https://blog.fourninecloud.com/auto-scaling-lifecycle-hooks-to-export-server-logs-when-instance-terminating-58>

NEW QUESTION # 25

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