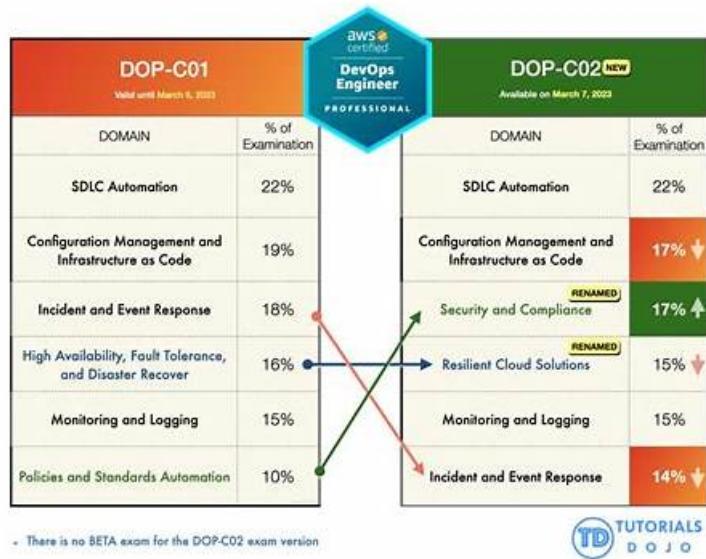


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The DOP-C02 certification exam is a comprehensive exam that covers a wide range of topics related to DevOps on the AWS platform. DOP-C02 exam consists of multiple-choice questions and scenario-based questions that require the candidate to apply their knowledge to real-world scenarios. DOP-C02 Exam is timed, and the candidate has 180 minutes to complete it.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q27-Q32):

NEW QUESTION # 27

A company uses an Amazon API Gateway regional REST API to host its application API. The REST API has a custom domain. The REST API's default endpoint is deactivated.

The company's internal teams consume the API. The company wants to use mutual TLS between the API and the internal teams as an additional layer of authentication.

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

- A. Upload the root private certificate authority (CA) certificate to an Amazon S3 bucket. Configure the API Gateway mutual TLS to use the private CA certificate that is stored in the S3 bucket as the trust store.
- B. Upload the provisioned client certificate to an Amazon S3 bucket. Configure the API Gateway mutual TLS to use the client certificate that is stored in the S3 bucket as the trust store.
- C. Use AWS Certificate Manager (ACM) to create a private certificate authority (CA). Provision a client certificate that is signed by the private CA.
- D. Provision a client certificate that is signed by a public certificate authority (CA). Import the certificate into AWS Certificate Manager (ACM).
- E. Upload the provisioned client certificate private key to an Amazon S3 bucket. Configure the API Gateway mutual TLS to use the private key that is stored in the S3 bucket as the trust store.

Answer: A,C

Explanation:

Mutual TLS (mTLS) authentication requires two-way authentication between the client and the server. For Amazon API Gateway, you can enable mTLS for a custom domain name, which requires clients to present X.509 certificates to verify their identity to access your API. To set up mTLS, you would typically use AWS Certificate Manager (ACM) to create a private certificate authority (CA) and provision a client certificate signed by this private CA. The root CA certificate is then uploaded to an Amazon S3 bucket and configured in API Gateway as the trust store^{1,2}.

Reference:

Introducing mutual TLS authentication for Amazon API Gateway¹.

Configuring mutual TLS authentication for a REST API².

AWS Private Certificate Authority details³.

AWS Certificate Manager Private Certificate Authority updates⁴.

NEW QUESTION # 28

A company that runs many workloads on AWS has an Amazon EBS spend that has increased over time. The DevOps team notices there are many unattached EBS volumes. Although there are workloads where volumes are detached, volumes over 14 days old are stale and no longer needed. A DevOps engineer has been tasked with creating automation that deletes unattached EBS volumes that have been unattached for 14 days.

Which solution will accomplish this?

- A. Configure the AWS Config ec2-volume-inuse-check managed rule with a configuration changes trigger type and an Amazon EC2 volume resource target. Create a new Amazon CloudWatch Events rule scheduled to execute an AWS Lambda function in 14 days to delete the specified EBS volume.
- B. Use AWS Trusted Advisor to detect EBS volumes that have been detached for more than 14 days. Execute an AWS Lambda function that creates a snapshot and then deletes the EBS volume.
- C. Create an Amazon CloudWatch Events rule to execute an AWS Lambda function daily. The Lambda function should find unattached EBS volumes and tag them with the current date, and delete unattached volumes that have tags with dates that are more than 14 days old.
- D. Use Amazon EC2 and Amazon Data Lifecycle Manager to configure a volume lifecycle policy. Set the interval period for unattached EBS volumes to 14 days and set the retention rule to delete. Set the policy target volumes as *.

Answer: C

Explanation:

The requirement is to create automation that deletes unattached EBS volumes that have been unattached for 14 days. To do this, the DevOps engineer needs to use the following steps:

Create an Amazon CloudWatch Events rule to execute an AWS Lambda function daily. CloudWatch Events is a service that enables event-driven architectures by delivering events from various sources to targets. Lambda is a service that lets you run code without provisioning or managing servers. By creating a CloudWatch Events rule that executes a Lambda function daily, the DevOps engineer can schedule a recurring task to check and delete unattached EBS volumes.

The Lambda function should find unattached EBS volumes and tag them with the current date, and delete unattached volumes that

have tags with dates that are more than 14 days old. The Lambda function can use the EC2 API to list and filter unattached EBS volumes based on their state and tags. The function can then tag each unattached volume with the current date using the create-tags command. The function can also compare the tag value with the current date and delete any unattached volume that has been tagged more than 14 days ago using the delete-volume command.

NEW QUESTION # 29

A company requires that its internally facing web application be highly available. The architecture is made up of one Amazon EC2 web server instance and one NAT instance that provides outbound internet access for updates and accessing public data. Which combination of architecture adjustments should the company implement to achieve high availability? (Choose two.)

- A. Replace the NAT instance with a NAT gateway that spans multiple Availability Zones. Update the route tables.
- B. Configure an Application Load Balancer in front of the EC2 instance. Configure Amazon CloudWatch alarms to recover the EC2 instance upon host failure.
- C. Replace the NAT instance with a NAT gateway in each Availability Zone. Update the route tables.
- D. Add the NAT instance to an EC2 Auto Scaling group that spans multiple Availability Zones. Update the route tables.
- E. Create additional EC2 instances spanning multiple Availability Zones. Add an Application Load Balancer to split the load between them.

Answer: C,E

NEW QUESTION # 30

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

Answer: C

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.

References:

- * AWS Systems Manager aws-downloadContent Plugin
- * Running Commands Using Systems Manager

NEW QUESTION # 31

A company is migrating its on-premises Windows applications and Linux applications to AWS. The company will use automation to launch Amazon EC2 instances to mirror the on-premises configurations. The migrated applications require access to shared storage that uses SMB for Windows and NFS for Linux.

The company is also creating a pilot light disaster recovery (DR) environment in another AWS Region. The company will use automation to launch and configure the EC2 instances in the DR Region. The company needs to replicate the storage to the DR Region.

Which storage solution will meet these requirements?

- A. Use Amazon Elastic Block Store (Amazon EBS) for the application storage. Create a backup plan in AWS Backup that creates snapshots of the EBS volumes that are in the primary Region and replicates the snapshots to the DR Region.
- B. Use a Volume Gateway in AWS Storage Gateway for the application storage. Configure Cross-Region Replication (CRR) of the Volume Gateway from the primary Region to the DR Region.
- C. Use Amazon FSx for NetApp ONTAP for the application storage. Create an FSx for ONTAP instance in the DR Region. Configure NetApp SnapMirror replication from the primary Region to the DR Region.
- D. Use Amazon S3 for the application storage. Create an S3 bucket in the primary Region and an S3 bucket in the DR Region. Configure S3 Cross-Region Replication (CRR) from the primary Region to the DR Region.

Answer: C

Explanation:

Explanation

To meet the requirements of migrating its on-premises Windows and Linux applications to AWS and creating a pilot light DR environment in another AWS Region, the company should use Amazon FSx for NetApp ONTAP for the application storage. Amazon FSx for NetApp ONTAP is a fully managed service that provides highly reliable, scalable, high-performing, and feature-rich file storage built on NetApp's popular ONTAP file system. FSx for ONTAP supports multiple protocols, including SMB for Windows and NFS for Linux, so the company can access the shared storage from both types of applications. FSx for ONTAP also supports NetApp SnapMirror replication, which enables the company to replicate the storage to the DR Region. NetApp SnapMirror replication is efficient, secure, and incremental, and it preserves the data deduplication and compression benefits of FSx for ONTAP. The company can use automation to launch and configure the EC2 instances in the DR Region and then use NetApp SnapMirror to restore the data from the primary Region.

The other options are not correct because they do not meet the requirements or follow best practices. Using Amazon S3 for the application storage is not a good option because S3 is an object storage service that does not support SMB or NFS protocols natively. The company would need to use additional services or software to mount S3 buckets as file systems, which would add complexity and cost. Using Amazon EBS for the application storage is also not a good option because EBS is a block storage service that does not support SMB or NFS protocols natively. The company would need to set up and manage file servers on EC2 instances to provide shared access to the EBS volumes, which would add overhead and maintenance. Using a Volume Gateway in AWS Storage Gateway for the application storage is not a valid option because Volume Gateway does not support SMB protocol. Volume Gateway only supports iSCSI protocol, which means that only Linux applications can access the shared storage.

References:

- 1: What is Amazon FSx for NetApp ONTAP? - FSx for ONTAP
- 2: Amazon FSx for NetApp ONTAP
- 3: Amazon FSx for NetApp ONTAP | NetApp
- 4: AWS Announces General Availability of Amazon FSx for NetApp ONTAP
- 5: Replicating Data with NetApp SnapMirror - FSx for ONTAP
- 6: What Is Amazon S3? - Amazon Simple Storage Service
- 7: What Is Amazon Elastic Block Store (Amazon EBS)? - Amazon Elastic Compute Cloud
- 8: What Is AWS Storage Gateway? - AWS Storage Gateway

NEW QUESTION # 32

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