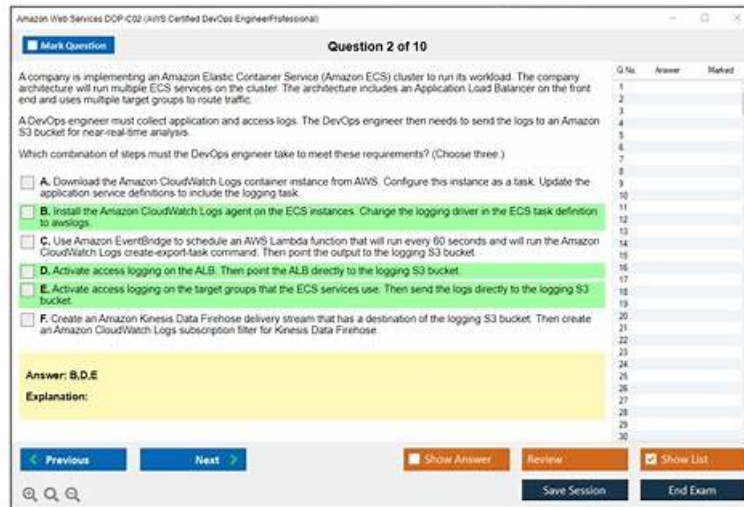


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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q318-Q323):

NEW QUESTION # 318

A company is storing 100 GB of log data in csv format in an Amazon S3 bucket. SQL developers want to query this data and generate graphs to visualize it. The SQL developers also need an efficient automated way to store metadata from the csv file. Which combination of steps will meet these requirements with the LEAST amount of effort? (Select THREE.)

- A. Fitter the data through AWS X-Ray to visualize the data.
- B. Query the data with Amazon Athena.
- C. Use the AWS Glue Data Catalog as the persistent metadata store.
- D. Filter the data through Amazon QuickSight to visualize the data.
- E. Use Amazon DynamoDB as the persistent metadata store.
- F. Query the data with Amazon Redshift.

Answer: B,C,D

Explanation:

Explanation

<https://docs.aws.amazon.com/glue/latest/dg/components-overview.html>

NEW QUESTION # 319

A company has a search application that has a web interface. The company uses Amazon CloudFront, Application Load Balancers (ALBs), and Amazon EC2 instances in an Auto Scaling group with a desired capacity of 3. The company uses prebaked AMIs. The application starts in 1 minute. The application queries an Amazon OpenSearch Service cluster. The application is deployed to multiple Availability Zones. Because of compliance requirements, the application needs to have a disaster recovery (DR) environment in a separate AWS Region. The company wants to minimize the ongoing cost of the DR environment and requires an RTO and an RPO of under 30 minutes. The company has created an ALB in the DR Region. Which solution will meet these requirements?

- A. Create a new CloudFront distribution in the DR Region and add the new ALB as an origin. Use Amazon Route 53 DNS for Regional failover. Copy the AMI to the DR Region. Create a launch template and an Auto Scaling group with a desired capacity of 0 in the DR Region. Reconfigure the OpenSearch Service cluster as a Multi-AZ with Standby deployment. Ensure that the standby nodes are in the DR Region.
- B. Add the new ALB as an origin in the CloudFront distribution. Configure origin failover functionality. Copy the AMI to the DR Region. Create a launch template and an Auto Scaling group with a desired capacity of 3 in the DR Region. Create a new OpenSearch Service cluster in the DR Region. Set up cross-cluster replication for the cluster.
- C. Create a new CloudFront distribution in the DR Region and add the new ALB as an origin. Use Amazon Route 53 DNS for Regional failover. Copy the AMI to the DR Region. Create a launch template and an Auto Scaling group with a desired capacity of 3 in the DR Region. Reconfigure the OpenSearch Service cluster as a Multi-AZ with Standby deployment. Ensure that the standby nodes are in the DR Region.
- **D. Add the new ALB as an origin in the CloudFront distribution. Configure origin failover functionality. Copy the AMI to the DR Region. Create a launch template and an Auto Scaling group with a desired capacity of 0 in the DR Region. Create a new OpenSearch Service cluster in the DR Region. Set up cross-cluster replication for the cluster.**

Answer: D

NEW QUESTION # 320

A company has a fleet of Amazon EC2 instances that run Linux in a single AWS account. The company is using an AWS Systems Manager Automation task across the EC2 instances.

During the most recent patch cycle, several EC2 instances went into an error state because of insufficient available disk space. A DevOps engineer needs to ensure that the EC2 instances have sufficient available disk space during the patching process in the future.

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

- **A. Create an Amazon CloudWatch alarm to monitor available disk space on all EC2 instances Add the alarm as a safety control to the Systems Manager Automation task.**
- B. Create an Amazon CloudWatch log group for the EC2 instances. Configure a cron job that is installed on each EC2 instance to write the available disk space to a CloudWatch log stream for the relevant EC2 instance.
- C. Create an AWS Lambda function to periodically check for sufficient available disk space on all EC2 instances by evaluating each EC2 instance's respective Amazon CloudWatch log stream.
- **D. Ensure that the Amazon CloudWatch agent is installed on all EC2 instances**
- E. Create a cron job that is installed on each EC2 instance to periodically delete temporary files.

Answer: A,D

Explanation:

* Ensure that the Amazon CloudWatch agent is installed on all EC2 instances:

The Amazon CloudWatch agent collects and logs metrics and sends them to Amazon CloudWatch.

To install the CloudWatch agent:

Download the CloudWatch agent package.

Install the agent on your EC2 instances.

Configure the agent to collect disk space metrics.

* Create an Amazon CloudWatch alarm to monitor available disk space on all EC2 instances Add the alarm as a safety control to the Systems Manager Automation task:

Create CloudWatch alarms to monitor the available disk space and trigger notifications or actions when the disk space falls below a

defined threshold.

Add the CloudWatch alarm to the Systems Manager Automation task to halt or fail the task if disk space is insufficient.

To create the alarm:

Navigate to the CloudWatch console and create a new alarm.

Set the metric to monitor (e.g., disk space utilization).

Define the threshold and notification actions.

Reference:

Amazon CloudWatch agent

Creating Amazon CloudWatch alarms

NEW QUESTION # 321

A company deploys an application to Amazon EC2 instances. The application runs Amazon Linux 2 and uses AWS CodeDeploy.

The application has the following file structure for its code repository:

```
amazon
├── appspec.yml
├── config/config.txt
└── application/web
```

The appspec.yml file has the following contents in the files section:

```
files:
  - source: config/config.txt
    destination: /usr/local/src/config.txt
  - source: /
    destination: /var/www/html
```

What will the result be for the deployment of the config.txt file?

- A. The config.txt file will be deployed to /usr/local/src/config.txt and to /var/www/html/config/config.txt.
- **B. The config.txt file will be deployed to only /usr/local/src/config.txt**
- C. The config.txt file will be deployed to /usr/local/src/config.txt and to /var/www/html/application/web/config.txt
- D. The config.txt file will be deployed to only /var/www/html/config/config.txt

Answer: B

Explanation:

Deployment of config.txt file based on the appspec.yml:

The appspec.yml file specifies that config/config.txt should be copied to /usr/local/src/config.txt.

The source: / directive in the appspec.yml indicates that the entire directory structure starting from the root of the application source should be copied to the specified destination, which is /var/www/html.

Result of the Deployment:

The config.txt file will be specifically deployed to /usr/local/src/config.txt as per the explicit file mapping.

The entire directory structure including application/web will be copied to /var/www/html, but this does not include config/config.txt since it has a specific destination defined.

Thus, the config.txt file will be deployed only to /usr/local/src/config.txt.

Therefore, the correct answer is:

C). The config.txt file will be deployed to only /usr/local/src/config.txt.

References:

AWS CodeDeploy AppSpec File Reference

AWS CodeDeploy Deployment Process

NEW QUESTION # 322

A company uses AWS Secrets Manager to store a set of sensitive API keys that an AWS Lambda function uses. When the

Lambda function is invoked, the Lambda function retrieves the API keys and makes an API call to an external service. The Secrets Manager secret is encrypted with the default AWS Key Management Service (AWS KMS) key.

A DevOps engineer needs to update the infrastructure to ensure that only the Lambda function's execution role can access the values in Secrets Manager. The solution must apply the principle of least privilege.

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

- A. Create a KMS customer managed key that trusts Secrets Manager and allows the Lambda function's execution role to decrypt. Update Secrets Manager to use the new customer managed key.
- B. Remove all KMS permissions from the Lambda function's execution role.
- C. Update the default KMS key for Secrets Manager to allow only the Lambda function's execution role to decrypt.
- D. Ensure that the Lambda function's execution role has the KMS permissions scoped on the resource level. Configure the permissions so that the KMS key can encrypt the Secrets Manager secret.
- E. Create a KMS customer managed key that trusts Secrets Manager and allows the account's root principal to decrypt. Update Secrets Manager to use the new customer managed key.

Answer: A,D

Explanation:

The requirement is to update the infrastructure to ensure that only the Lambda function's execution role can access the values in Secrets Manager. The solution must apply the principle of least privilege, which means granting the minimum permissions necessary to perform a task.

To do this, the DevOps engineer needs to use the following steps:

Create a KMS customer managed key that trusts Secrets Manager and allows the Lambda function's execution role to decrypt. A customer managed key is a symmetric encryption key that is fully managed by the customer. The customer can define the key policy, which specifies who can use and manage the key. By creating a customer managed key, the DevOps engineer can restrict the decryption permission to only the Lambda function's execution role, and prevent other principals from accessing the secret values. The customer managed key also needs to trust Secrets Manager, which means allowing Secrets Manager to use the key to encrypt and decrypt secrets on behalf of the customer.

Update Secrets Manager to use the new customer managed key. Secrets Manager allows customers to choose which KMS key to use for encrypting each secret. By default, Secrets Manager uses the default KMS key for Secrets Manager, which is a service-managed key that is shared by all customers in the same AWS Region.

By updating Secrets Manager to use the new customer managed key, the DevOps engineer can ensure that only the Lambda function's execution role can decrypt the secret values using that key.

Ensure that the Lambda function's execution role has the KMS permissions scoped on the resource level. The Lambda function's execution role is an IAM role that grants permissions to the Lambda function to access AWS services and resources. The role needs to have KMS permissions to use the customer managed key for decryption. However, to apply the principle of least privilege, the role should have the permissions scoped on the resource level, which means specifying the ARN of the customer managed key as a condition in the IAM policy statement. This way, the role can only use that specific key and not any other KMS keys in the account.

NEW QUESTION # 323

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