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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q169-Q174):

NEW QUESTION # 169

A company wants to migrate an Amazon Aurora MySQL DB cluster from an existing AWS account to a new AWS account in the same AWS Region. Both accounts are members of the same organization in AWS Organizations.

The company must minimize database service interruption before the company performs DNS cutover to the new database. Which migration strategy will meet this requirement?

- A. Take a snapshot of the existing Aurora database. Share the snapshot with the new AWS account. Create an Aurora DB cluster in the new account from the snapshot.
- B. Use AWS Backup to share an Aurora database backup from the existing AWS account to the new AWS account. Create an Aurora DB cluster in the new AWS account from the snapshot.
- **C. Create an Aurora DB cluster in the new AWS account. Use AWS Database Migration Service (AWS DMS) to migrate data between the two Aurora DB clusters.**
- D. Create an Aurora DB cluster in the new AWS account. Use AWS Application Migration Service to migrate data between the two Aurora DB clusters.

Answer: C

Explanation:

The best migration strategy to meet the requirement of minimizing database service interruption before the DNS cutover is to use AWS DMS to migrate data between the two Aurora DB clusters. AWS DMS can perform continuous replication of data with high availability and consolidate databases into a petabyte-scale data warehouse by streaming data to Amazon Redshift and Amazon S3. AWS DMS supports homogeneous migrations such as migrating from one Aurora MySQL DB cluster to another, as well as heterogeneous migrations between different database platforms. AWS DMS also supports cross-account migrations, as long as the source and target databases are in the same AWS Region.

The other options are not optimal for the following reasons:

Option A: Taking a snapshot of the existing Aurora database and restoring it in the new account would require a downtime during the snapshot and restore process, which could be significant for large databases. Moreover, any changes made to the source database after the snapshot would not be replicated to the target database, resulting in data inconsistency.

Option B: Using AWS Backup to share an Aurora database backup from the existing AWS account to the new AWS account would have the same drawbacks as option A, as AWS Backup uses snapshots to create backups of Aurora databases.

Option D: Using AWS Application Migration Service to migrate data between the two Aurora DB clusters is not a valid option, as AWS Application Migration Service is designed to migrate applications, not databases, to AWS. AWS Application Migration Service can migrate applications from on-premises or other cloud environments to AWS, using agentless or agent-based methods.

References:

1: What Is AWS Database Migration Service? - AWS Database Migration Service

2: Sources for Data Migration - AWS Database Migration Service

3: AWS Database Migration Service FAQs

4: Working with DB Cluster Snapshots - Amazon Aurora: [Backing Up and Restoring an Amazon Aurora DB Cluster - Amazon Aurora]: [What is AWS Application Migration Service? - AWS Application Migration Service]

NEW QUESTION # 170

A solutions architect uses AWS Organizations to manage several AWS accounts for a company. The full Organizations feature set is activated for the organization. All production AWS accounts exist under an OU that is named "production". Systems operators have full administrative privileges within these accounts by using IAM roles.

The company wants to ensure that security groups in all production accounts do not allow inbound traffic for TCP port 22. All noncompliant security groups must be remediated immediately, and no new rules that allow port 22 can be created.

Which solution will meet these requirements?

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) event bus in the Organizations management account. Create an AWS CloudFormation template to deploy configurations that send CreateSecurityGroup events to the event bus from all production accounts. Configure an AWS Lambda function in the management account with permissions to assume a role in all production accounts to describe and modify security groups. Configure the event bus to invoke the Lambda function. Configure the Lambda function to analyze each event for noncompliant security group actions and to automatically remediate any issues.
- **B. Create an AWS CloudFormation template to turn on AWS Config. Activate the INCOMING_SSH_DISABLED AWS Config managed rule. Deploy an AWS Lambda function that will run based on AWS Config findings and will remediate noncompliant resources. Deploy the CloudFormation template by using a StackSet that is assigned to the "production" OU. Apply an SCP to the OU to deny modification of the resources that the CloudFormation template provisions.**
- C. Configure an AWS CloudTrail trail for all accounts. Send CloudTrail logs to an Amazon S3 bucket in the Organizations management account. Configure an AWS Lambda function on the management account with permissions to assume a role in all production accounts to describe and modify security groups. Configure Amazon S3 to invoke the Lambda function on every PutObject event on the S3 bucket. Configure the Lambda function to analyze each CloudTrail event for noncompliant security group actions and to automatically remediate any issues.

- D. Write an SCP that denies the CreateSecurityGroup action with a condition of (ec2:ingress rule with value 22. Apply the SCP to the 'production' OU.

Answer: B

NEW QUESTION # 171

A company runs an application in the cloud that consists of a database and a website. Users can post data to the website, have the data processed, and have the data sent back to them in an email. Data is stored in a MySQL database running on an Amazon EC2 instance. The database is running in a VPC with two private subnets. The website is running on Apache Tomcat in a single EC2 instance in a different VPC with one public subnet. There is a single VPC peering connection between the database and website VPC.

The website has suffered several outages during the last month due to high traffic. Which actions should a solutions architect take to increase the reliability of the application? (Select THREE.)

- A. Provision an additional VPC peering connection
- B. Create an additional public subnet in a different Availability Zone in the website VPC
- C. Move the Tomcat server to the database VPC
- D. Migrate the MySQL database to Amazon Aurora with one Aurora Replica
- E. Provision two NAT gateways in the database VPC.
- F. Place the Tomcat server in an Auto Scaling group with multiple EC2 instances behind an Application Load Balancer

Answer: B,D,F

Explanation:

* Auto Scaling Group with Application Load Balancer:

* Moving the Tomcat server to an Auto Scaling group ensures that the number of instances adjusts dynamically based on the traffic load. An Application Load Balancer (ALB) distributes incoming traffic across multiple instances, improving the application's reliability and availability.

* Migrate to Amazon Aurora with Replica:

* Migrating the MySQL database to Amazon Aurora and adding an Aurora Replica enhances the database's scalability and availability. Aurora is optimized for performance, and replicas help distribute read traffic, reducing the load on the primary instance.

* Additional Public Subnet:

* Creating an additional public subnet in a different Availability Zone enhances fault tolerance.

This ensures that the website remains accessible even if one Availability Zone experiences issues.

References

* AWS Well-Architected Framework

* Amazon Aurora Documentation

NEW QUESTION # 172

A company has automated the nightly retraining of its machine learning models by using AWS Step Functions. The workflow consists of multiple steps that use AWS Lambda. Each step can fail for various reasons and any failure causes a failure of the overall workflow. A review reveals that the retraining has failed multiple nights in a row without the company noticing the failure. A solutions architect needs to improve the workflow so that notifications are sent for all types of failures in the retraining process. Which combination of steps should the solutions architect take to meet these requirements? (Select THREE)

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic with a subscription of type "Email" that targets the team's mailing list.
- B. Add a Catch field to all Task Map, and Parallel states that have a statement of "Error Equals": ["states.Runtime"] and "Next": "Email".
- C. Add a Catch field all Task Map, and Parallel states that have a statement of "Error Equals": ["States.ALL"] and "Next": "Email".
- D. Create a task named "Email" that forwards the input arguments to the SES email address.
- E. Add a new email address to Amazon Simple Email Service (Amazon SES). Verify the email address.
- F. Create a task named "Email" that forwards the input arguments to the SNS topic.

Answer: A,C,F

Explanation:

Create an Amazon Simple Notification Service (Amazon SNS) topic with a subscription of type "Email" that targets the team's

mailing list. This will create a topic for sending notifications and add a subscription for the team's email list to that topic. C. Add a Catch field to all Task, Map, and Parallel states that have a statement of "ErrorEquals": ["States.ALL"] and "Next": "Email". This will ensure that any errors that occur in any of the steps in the workflow will trigger the "Email" task, which will forward the input arguments to the SNS topic created in step A. B. Create a task named "Email" that forwards the input arguments to the SNS topic. This will allow the company to send email notifications to the team's mailing list in case of any errors occurred in any step in the workflow.

NEW QUESTION # 173

A company has a web application that securely uploads pictures and videos to an Amazon S3 bucket. The company requires that only authenticated users are allowed to post content. The application generates a presigned URL that is used to upload objects through a browser interface. Most users are reporting slow upload times for objects larger than 100 MB. What can a solutions architect do to improve the performance of these uploads while ensuring only authenticated users are allowed to post content?

- A. Enable an S3 Transfer Acceleration endpoint on the S3 bucket. Use the endpoint when generating the presigned URL. Have the browser interface upload the objects to this URL using the S3 multipart upload API.
- B. Set up an Amazon API Gateway with an edge-optimized API endpoint that has a resource as an S3 service proxy. Configure the PUT method for this resource to expose the S3 PutObject operation. Secure the API Gateway using a Cognito user pools authorizer. Have the browser interface use API Gateway instead of the presigned URL to upload objects.
- **C. Configure an Amazon CloudFront distribution for the destination S3 bucket. Enable PUT and POST methods for the CloudFront cache behavior. Update the CloudFront origin to use an origin access identity (OAI). Give the OAI user s3:PutObject permissions in the bucket policy. Have the browser interface upload objects using the CloudFront distribution.**
- D. Set up an Amazon API Gateway with a regional API endpoint that has a resource as an S3 service proxy. Configure the PUT method for this resource to expose the S3 PutObject operation. Secure the API Gateway using an AWS Lambda authorizer. Have the browser interface use API Gateway instead of the presigned URL to upload objects.

Answer: C

NEW QUESTION # 174

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