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SAP-C02 Preparation Materials and Study Guide: AWS Certified Solutions

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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q300-Q305):

NEW QUESTION # 300

An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's dynamic website currently uses an Application Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only. The magazine is expecting a significant spike in internet traffic when the new edition is launched. Optimal performance is a top priority for the week following the launch.

Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Choose two.)

- A. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region. Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.
- B. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers "web, application, and database" are in private subnets.
- C. Ensure the web and application tiers are each in Auto Scaling groups. Introduce an AWS Direct Connect connection. Deploy the web and application tiers in Regions across the world.
- **D. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.**
- **E. Use an Aurora global database for physical cross-Region replication. Use Amazon S3 with cross-Region replication for static content and resources. Deploy the web and application tiers in Regions across the world.**

Answer: D,E

NEW QUESTION # 301

A Solutions Architect is building a containerized .NET Core application that will run in AWS Fargate. The backend of the application requires Microsoft SQL Server with high availability. All tiers of the application must be highly available. The credentials used for the connection string to SQL Server should not be stored on disk within the .NET Core front-end containers.

Which strategies should the Solutions Architect use to meet these requirements?

- A. Create an Auto Scaling group to run SQL Server on Amazon EC2. Create a secret in AWS Secrets Manager for the credentials to SQL Server running on EC2. Create an Amazon ECS task execution role that allows the Fargate task definition to get the secret value for the credentials to SQL Server on EC2. Specify the ARN of the secret in Secrets Manager in the secrets section of the Fargate task definition so the sensitive data can be injected into the containers as environment variables on startup for reading into the application to construct the connection string. Set up the .NET Core service using Service Auto Scaling behind an Application Load Balancer in multiple Availability Zones.
- **B. Create a Multi-AZ deployment of SQL Server on Amazon RDS. Create a secret in AWS Secrets Manager for the credentials to the RDS database. Create an Amazon ECS task execution role that allows the Fargate task definition to get the secret value for the credentials to the RDS database in Secrets Manager. Specify the ARN of the secret in Secrets Manager in the secrets section of the Fargate task definition so the sensitive data can be injected into the containers as environment variables on startup for reading into the application to construct the connection string. Set up the .NET Core service in Fargate using Service Auto Scaling behind an Application Load Balancer in multiple Availability Zones.**
- C. Set up SQL Server to run in Fargate with Service Auto Scaling. Create an Amazon ECS task execution role that allows the Fargate task definition to get the secret value for the credentials to SQL Server running in Fargate. Specify the ARN of the secret in AWS Secrets Manager in the secrets section of the Fargate task definition so the sensitive data can be injected into the containers as environment variables on startup for reading into the application to construct the connection string. Set up the .NET Core service using Service Auto Scaling behind an Application Load Balancer in multiple Availability Zones.
- D. Create a Multi-AZ deployment of SQL Server on Amazon RDS. Create a secret in AWS Secrets Manager for the credentials to the RDS database. Create non-persistent empty storage for the .NET Core containers in the Fargate task definition to store the sensitive information. Create an Amazon ECS task execution role that allows the Fargate task definition to get the secret value for the credentials to the RDS database in Secrets Manager. Specify the ARN of the secret in Secrets

Manager in the secrets section of the Fargate task definition so the sensitive data can be written to the non-persistent empty storage on startup for reading into the application to construct the connection string. Set up the .NET Core service using Service Auto Scaling behind an Application Load Balancer in multiple Availability Zones.

Answer: B

Explanation:

Secrets Manager natively supports SQL Server on RDS. No real need to create additional 'ephemeral storage' to fetch credentials, as these can be injected to containers as environment variables.

<https://aws.amazon.com/premiumsupport/knowledge-center/ecs-data-security-container-task/>

NEW QUESTION # 302

A research center is migrating to the AWS Cloud and has moved its on-premises 1 PB object storage to an Amazon S3 bucket. One hundred scientists are using this object storage to store their work-related documents. Each scientist has a personal folder on the object store. All the scientists are members of a single IAM user group.

The research center's compliance officer is worried that scientists will be able to access each other's work. The research center has a strict obligation to report on which scientist accesses which documents.

The team that is responsible for these reports has little AWS experience and wants a ready-to-use solution that minimizes operational overhead.

Which combination of actions should a solutions architect take to meet these requirements? (Select TWO.)

- A. Create an S3 bucket policy that grants read and write access to users in the scientists' IAM user group.
- B. Configure a trail with AWS CloudTrail to capture all object-level events in the S3 bucket and write the events to Amazon CloudWatch. Use the Amazon Athena CloudWatch connector to query the logs and generate reports.
- C. Configure a trail with AWS CloudTrail to capture all object-level events in the S3 bucket. Store the trail output in another S3 bucket. Use Amazon Athena to query the logs and generate reports.
- D. Enable S3 server access logging. Configure another S3 bucket as the target for log delivery. Use Amazon Athena to query the logs and generate reports.
- E. Create an identity policy that grants the user read and write access. Add a condition that specifies that the S3 paths must be prefixed with `${aws:username}`. Apply the policy on the scientists' IAM user group.

Answer: C,E

Explanation:

This option allows the solutions architect to use an identity policy that grants the user read and write access to their own personal folder on the S3 bucket¹. By adding a condition that specifies that the S3 paths must be prefixed with `${aws:username}`, the solutions architect can ensure that each scientist can only access their own folder². By applying the policy on the scientists' IAM user group, the solutions architect can simplify the management of permissions for all the scientists³. By configuring a trail with AWS CloudTrail to capture all object-level events in the S3 bucket, the solutions architect can record and store information about every action performed on the S3 objects⁴. By storing the trail output in another S3 bucket, the solutions architect can secure and archive the log files⁵. By using Amazon Athena to query the logs and generate reports, the solutions architect can use a serverless interactive query service that can analyze data in S3 using standard SQL.

Identity-based policies

Policy variables

IAM groups

Object-level logging

Creating a trail that applies to all regions

[What is Amazon Athena?]

NEW QUESTION # 303

A company is in the process of implementing AWS Organizations to constrain its developers to use only Amazon EC2, Amazon S3 and Amazon DynamoDB. The developers account resides in a dedicated organizational unit (OU). The solutions architect has implemented the following SCP on the developers account:

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowEC2",
      "Effect": "Allow",
      "Action": "ec2:*",
      "Resource": "*"
    },
    {
      "Sid": "AllowDynamoDB",
      "Effect": "Allow",
      "Action": "dynamodb:*",
      "Resource": "*"
    },
    {
      "Sid": "AllowS3",
      "Effect": "Allow",
      "Action": "s3:*",
      "Resource": "*"
    }
  ]
}

```

When this policy is deployed, IAM users in the developers account are still able to use AWS services that are not listed in the policy. What should the solutions architect do to eliminate the developers' ability to use services outside the scope of this policy?

- A. Create an explicit deny statement for each AWS service that should be constrained
- B. Modify the Full AWS Access SCP to explicitly deny all services
- C. Add an explicit deny statement using a wildcard to the end of the SCP
- **D. Remove the Full AWS Access SCP from the developer account's OU**

Answer: D

Explanation:

Explanation

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_inheritance_auth.html

NEW QUESTION # 304

A company that uses AWS Organizations allows developers to experiment on AWS. As part of the landing zone that the company has deployed, developers use their company email address to request an account. The company wants to ensure that developers are not launching costly services or running services unnecessarily.

The company must give developers a fixed monthly budget to limit their AWS costs.

Which combination of steps will meet these requirements? (Choose three.)

- **A. Create an SCP to deny access to costly services and components. Apply the SCP to the developer accounts.**
- B. Create an SCP to set a fixed monthly account usage limit. Apply the SCP to the developer accounts.
- **C. Use AWS Budgets to create a fixed monthly budget for each developer's account as part of the account creation process.**
- **D. Create an AWS Budgets alert action to send an Amazon Simple Notification Service (Amazon SNS) notification when the budgeted amount is reached. Invoke an AWS Lambda function to terminate all services.**
- E. Create an IAM policy to deny access to costly services and components. Apply the IAM policy to the developer accounts.
- F. Create an AWS Budgets alert action to terminate services when the budgeted amount is reached. Configure the action to terminate all services.

Answer: A,C,D

Explanation:

* Option A is incorrect because creating an SCP to set a fixed monthly account usage limit is not possible. SCPs are policies that specify the services and actions that users and roles can use in the member accounts of an AWS Organization. SCPs cannot enforce budget limits or prevent users from launching costly services or running services unnecessarily.

* Option B is correct because using AWS Budgets to create a fixed monthly budget for each developer's account as part of the account creation process meets the requirement of giving developers a fixed monthly budget to limit their AWS costs. AWS Budgets allows you to plan your service usage, service costs, and instance reservations. You can create budgets that alert you when your

costs or usage exceed (or are forecasted to exceed) your budgeted amount²

* Option C is correct because creating an SCP to deny access to costly services and components meets the requirement of ensuring that developers are not launching costly services or running services unnecessarily. SCPs can restrict access to certain AWS services or actions based on conditions such as region, resource tags, or request time. For example, an SCP can deny access to Amazon Redshift clusters or Amazon EC2 instances with certain instance types¹

* Option D is incorrect because creating an IAM policy to deny access to costly services and components is not sufficient to meet the requirement of ensuring that developers are not launching costly services or running services unnecessarily. IAM policies can only control access to resources within a single AWS account. If developers have multiple accounts or can create new accounts, they can bypass the IAM policy restrictions. SCPs can apply across multiple accounts within an AWS Organization and prevent users from creating new accounts that do not comply with the SCP rules³

* Option E is incorrect because creating an AWS Budgets alert action to terminate services when the budgeted amount is reached is not possible. AWS Budgets alert actions can only perform one of the following actions: apply an IAM policy, apply an SCP, or send a notification through Amazon SNS.

AWS Budgets alert actions cannot terminate services directly.

* Option F is correct because creating an AWS Budgets alert action to send an Amazon SNS notification when the budgeted amount is reached and invoking an AWS Lambda function to terminate all services meets the requirement of giving developers a fixed monthly budget to limit their AWS costs. AWS Budgets alert actions can send notifications through Amazon SNS when a budget threshold is breached.

Amazon SNS can trigger an AWS Lambda function that can perform custom logic such as terminating all services in the developer's account. This way, developers cannot exceed their budget limit and incur additional costs.

References: 1: https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html

2: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/budgets-create.html>

3: <https://docs.aws.amazon.com/IAM/latest/UserGuide/introduction.html>

<https://docs.aws.amazon.com/cost-management/latest/userguide/budgets-actions.html>

<https://docs.aws.amazon.com/sns/latest/dg/sns-lambda.html>

<https://docs.aws.amazon.com/lambda/latest/dg/welcome.html>

NEW QUESTION # 305

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