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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q385-Q390):

NEW QUESTION # 385

A company orchestrates a multi-account structure on AWS by using AWS Control Tower. The company is using AWS Organizations, AWS Config, and AWS Trusted Advisor. The company has a specific OU for development accounts that developers use to experiment on AWS. The company has hundreds of developers, and each developer has an individual development account.

The company wants to optimize costs in these development accounts. Amazon EC2 instances and Amazon RDS instances in these accounts must be burstable. The company wants to disallow the use of other services that are not relevant.

What should a solutions architect recommend to meet these requirements?

- A. Create a custom detective control (guardrail) in AWS Control Tower. Configure the control (guardrail) to allow the deployment of only burstable instances and to disallow services that are not relevant. Apply the control (guardrail) to the development OU.
- B. Create an AWS Config rule in the AWS Control Tower account. Configure the AWS Config rule to allow the deployment of only burstable instances and to disallow services that are not relevant. Deploy the AWS Config rule to the development OU by using AWS CloudFormation StackSets.
- C. Create a custom preventive control (guardrail) in AWS Control Tower. Configure the control (guardrail) to allow the deployment of only burstable instances and to disallow services that are not relevant. Apply the control (guardrail) to the development OU.
- D. Create a custom SCP in AWS Organizations to allow the deployment of only burstable instances and to disallow services that are not relevant. Apply the SCP to the development OU.

Answer: D

NEW QUESTION # 386

A public retail web application uses an Application Load Balancer (ALB) in front of Amazon EC2 instances running across multiple Availability Zones (AZs) in a Region backed by an Amazon RDS MySQL Multi-AZ deployment. Target group health checks are configured to use HTTP and pointed at the product catalog page.

Auto Scaling is configured to maintain the web fleet size based on the ALB health check.

Recently, the application experienced an outage. Auto Scaling continuously replaced the instances during the outage. A subsequent investigation determined that the web server metrics were within the normal range, but the database tier was experiencing high load, resulting in severely elevated query response times.

Which of the following changes together would remediate these issues while improving monitoring capabilities for the availability and functionality of the entire application stack for future growth? (Select TWO.)

- A. Configure an Amazon CloudWatch alarm for Amazon RDS with an action to recover a high-load, impaired RDS instance in the database tier.
- B. Configure the target group health check to use a TCP check of the Amazon EC2 web server and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- C. Configure an Amazon Elasticache cluster and place it between the web application and RDS MySQL instances to reduce the load on the backend database tier.
- D. Configure the target group health check to point at a simple HTML page instead of a product catalog page and the Amazon Route 53 health check against the product page to evaluate full application functionality. Configure Amazon CloudWatch alarms to notify administrators when the site fails.
- E. Configure read replicas for Amazon RDS MySQL and use the single reader endpoint in the web application to reduce the load on the backend database tier.

Answer: C,E

Explanation:

Configuring read replicas for Amazon RDS MySQL and using the single reader endpoint in the web application can significantly reduce the load on the backend database tier, improving overall application performance. Additionally, implementing an Amazon ElastiCache cluster between the web application and RDS MySQL instances can further reduce database load by caching frequently accessed data, thereby enhancing the application's resilience and scalability. These changes address the root cause of the outage by alleviating the database tier's high load and preventing similar issues in the future.

References: AWS Documentation on Amazon RDS Read Replicas and Amazon ElastiCache provides comprehensive guidance on

improving application performance and scalability by offloading read traffic from the primary database and caching common queries. These solutions are in line with AWS best practices for building resilient and scalable web applications.

NEW QUESTION # 387

A news company wants to implement an AWS Lambda function that calls an external API to receive new press releases every 10 minutes. The API provider is planning to use an IP address allow list to protect the API, so the news company needs to provide any public IP addresses that access the API. The company's current architecture includes a VPC with an internet gateway and a NAT gateway. A solutions architect must implement a static IP address for the Lambda function. Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

- A. Create a transit gateway. Attach the VPC and the Lambda function to the transit gateway.
- B. Use the Elastic IP address that is associated with the NAT gateway for the IP address allow list.
- C. Configure the Lambda function to launch in the private subnet of the VPC.
- D. Configure the Lambda function to launch in the public subnet of the VPC.
- E. Assign an Elastic IP address to the Lambda function. Use the Lambda function's Elastic IP address for the IP address allow list.

Answer: B,C

NEW QUESTION # 388

A company has an application that uses an Amazon Aurora PostgreSQL DB cluster for the application's database. The DB cluster contains one small primary instance and three larger replica instances. The application runs on an AWS Lambda function. The application makes many short-lived connections to the database's replica instances to perform read-only operations. During periods of high traffic, the application becomes unreliable and the database reports that too many connections are being established. The frequency of high-traffic periods is unpredictable. Which solution will improve the reliability of the application?

- A. Use Amazon RDS Proxy to create a proxy for the DB cluster. Configure a read-only endpoint for the proxy. Update the Lambda function to connect to the proxy endpoint.
- B. Increase the `max_connections` setting on the DB cluster's parameter group. Reboot all the instances in the DB cluster. Update the Lambda function to connect to the DB cluster endpoint.
- C. Use Amazon RDS Proxy to create a proxy for the DB cluster. Configure a read-only endpoint for the Aurora Data API on the proxy. Update the Lambda function to connect to the proxy endpoint.
- D. Configure instance scaling for the DB cluster to occur when the `DatabaseConnections` metric is close to the `max_connections` setting. Update the Lambda function to connect to the Aurora reader endpoint.

Answer: A

NEW QUESTION # 389

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 set a fixed monthly account usage limit. Apply the SCP to the developer accounts.
- B. Create an SCP to deny access to costly services and components. Apply the SCP to the developer accounts.
- C. 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.
- D. Use AWS Budgets to create a fixed monthly budget for each developer's account as part of the account creation process.
- 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: B,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 unnecessarily¹

* 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>

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

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

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

NEW QUESTION # 390

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