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SOA-C02
AWS Certified SysOps Administrator Associate
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Fifth Edition
Volume 1 of 2: Deployment, Monitoring, Provisioning, Reliability, and Data Management



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Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q740-Q745):

NEW QUESTION # 740

A company runs several workloads on AWS. The company identifies five AWS Trusted Advisor service quota metrics to monitor in a specific AWS Region. The company wants to receive email notification each time resource usage exceeds 60% of one of the service quotas.

Which solution will meet these requirements?

- A. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric.
Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.
- B. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.
Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.
- C. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric.
Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification each time that usage exceeds 60% of one of the service quotas.
- D. Use the AWS Service Health Dashboard to monitor each Trusted Advisor service quota metric.
Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification each time that usage exceeds 60% of one of the service quotas.

Answer: A

Explanation:

Setting up the Alarms, then sending emails via SNS should do the job.

NEW QUESTION # 741

A webpage is stored in an Amazon S3 bucket behind an Application Load Balancer (ALB). Configure the S3 bucket to serve a static error page in the event of a failure at the primary site.

1. Use the us-east-2 Region for all resources.
2. Unless specified below, use the default configuration settings.
3. There is an existing hosted zone named lab-751906329398-26023898.com that contains an A record with a simple routing policy that routes traffic to an existing ALB.
4. Configure the existing S3 bucket named lab-751906329398-26023898.com as a static hosted website using the object named index.html as the index document
5. For the index.html object, configure the S3 ACL to allow for public read access. Ensure public access to the S3 buckets is allowed.
6. In Amazon Route 53, change the A record for domain lab-751906329398-26023898.com to a primary record for a failover routing policy. Configure the record so that it evaluates the health of the ALB to determine failover.
7. Create a new secondary failover alias record for the domain lab-751906329398-26023898.com that routes traffic to the existing S3 bucket.

Answer:

Explanation:

Here are the steps to configure an Amazon S3 bucket to serve a static error page in the event of a failure at the primary site:
Log in to the AWS Management Console and navigate to the S3 service in the us-east-2 Region.

Find the existing S3 bucket named lab-751906329398-26023898.com and click on it.

In the "Properties" tab, click on "Static website hosting" and select "Use this bucket to host a website".

In "Index Document" field, enter the name of the object that you want to use as the index document, in this case, "index.html". In the "Permissions" tab, click on "Block Public Access", and make sure that "Block all public access" is turned OFF.

Click on "Bucket Policy" and add the following policy to allow public read access:

```
{  
  "Version": "2012-10-17",
```

```

"Statement": [
{
"Sid": "PublicReadGetObject",
"Effect": "Allow",
"Principal": "*",
"Action": "s3:GetObject",
"Resource": "arn:aws:s3:::lab-751906329398-26023898.com/*"
}
]
}

```

Now navigate to the Amazon Route 53 service, and find the existing hosted zone named lab-751906329398-26023898.com. Click on the "A record" and update the routing policy to "Primary - Failover" and add the existing ALB as the primary record. Click on "Create Record" button and create a new secondary failover alias record for the domain lab-751906329398-26023898.com that routes traffic to the existing S3 bucket.

Now, when the primary site (ALB) goes down, traffic will be automatically routed to the S3 bucket serving the static error page.

Note:

You can use CloudWatch to monitor the health of your ALB.

You can use Amazon S3 to host a static website.

You can use Amazon Route 53 for routing traffic to different resources based on health checks.

You can refer to the AWS documentation for more information on how to configure and use these services:

<https://aws.amazon.com/s3/>

<https://aws.amazon.com/route53/>

<https://aws.amazon.com/cloudwatch/>



NEW QUESTION # 742

A SysOps administrator is creating a nested AWS CloudFormation stack. One stack creates a VPC. A second stack needs to reference the ID of the VPC to create resources in the VPC.

Which solution will meet these requirements with the LEAST operational effort?

- A. Configure the second stack to consume the output of the first stack.
- B. Configure the first stack to store the VPC ID in an AWS Systems Manager Parameter Store parameter. Configure the second stack to consume the parameter.
- C. Configure the first stack to output the VPC ID as a shared value. Use the Fn::GetAtt function in the second stack to retrieve the shared value from the first stack.
- D. Configure the first stack to store the VPC ID as a parameter in AWS Secrets Manager. Configure the second stack to consume the parameter from Secrets Manager.

Answer: A

Explanation:

In a nested stack architecture, the simplest approach is to pass outputs from one stack directly as parameters to another. By configuring the second stack to consume the output of the first stack (which creates the VPC), the VPC ID can be easily shared between the stacks with minimal operational overhead. This approach leverages CloudFormation's native support for nested stacks and output parameters, avoiding additional services or complex functions.

NEW QUESTION # 743

A company has an application that runs on Amazon EC2 instances. The application stores data on an Amazon RDS for MySQL Single-AZ DB instance. Requests to the DB instance from the application include reads and writes.

A SysOps administrator must implement a solution that provides failover for the DB instance. The solution must minimize application downtime.

Which solution will meet these requirements?

- A. Add the DB instance to an Auto Scaling group that has a minimum capacity of 2 and a desired capacity of 2.
- B. Add a read replica in the same Availability Zone where the DB instance is deployed.
- C. Modify the DB instance to be a Multi-AZ DB instance deployment.
- D. Use RDS Proxy to configure a proxy in front of the DB instance.

Answer: C

Explanation:

The requirement is to implement a failover mechanism that minimizes downtime for an Amazon RDS for MySQL Single-AZ instance that handles read and write traffic.

From the RDS User Guide - Multi-AZ Deployments:

Multi-AZ deployments provide high availability and durability for Database (DB) instances, making them a natural fit for production database workloads.

When you create or modify your DB instance to run as a Multi-AZ deployment, Amazon RDS automatically provisions and maintains a synchronous standby replica in a different Availability Zone (AZ).

Failover is automatic and requires no manual intervention.

Why A is correct:

- * Multi-AZ offers automated failover in case of instance failure, with minimal application downtime.
- * RDS automatically redirects traffic to the standby, which is promoted as the new primary.

Why other options are incorrect:

- * B. Read replica is for read-only scaling. It does not support writes and is not a failover solution.
- * C. Auto Scaling Group cannot be applied to RDS instances, which are managed services.
- * D. RDS Proxy improves connection management, but does not provide failover capability for the RDS instance itself.

NEW QUESTION # 744

A company is running an application on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances are launched by an Auto Scaling group and are automatically registered in a target group. A SysOps administrator must set up a notification to alert application owners when targets fail health checks.

What should the SysOps administrator do to meet these requirements?

- A. Create an Amazon CloudWatch alarm on the UnHealthyHostCount metric. Configure an action to send an Amazon Simple Notification Service (Amazon SNS) notification when the metric is greater than 0.
- B. Configure an Amazon EC2 Auto Scaling custom lifecycle action to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is in the Pending: Wait state.
- C. Update the ALB health check to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is unhealthy.
- D. Update the Auto Scaling group. Configure an activity notification to send an Amazon Simple Notification Service (Amazon SNS) notification for the Unhealthy event type.

Answer: A

Explanation:

The Application Load Balancer (ALB) provides a CloudWatch metric called UnHealthyHostCount, which tracks the number of targets (EC2 instances) that fail health checks in the target group.

By creating a CloudWatch alarm on this metric and setting a threshold greater than 0, the alarm will trigger whenever there is at least one unhealthy target.

The alarm action can be configured to send a notification via Amazon SNS, alerting application owners when an issue occurs.

NEW QUESTION # 745

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