SOA-C02$^{Q\&As}$

AWS Certified SysOps Administrator - Associate (SOA-C02)

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QUESTION 1

A SysOps administrator is designing a solution for an Amazon RDS for PostgreSQL DB instance. Database credentials must be stored and rotated monthly. The applications that connect to the DB instance send write-intensive traffic with variable client connections that sometimes increase significantly in a short period of time.

Which solution should a SysOps administrator choose to meet these requirements?

A. Configure AWS Key Management Service (AWS KMS) to automatically rotate the keys for the DB instance. Use RDS Proxy to handle the increases in database connections.

B. Configure AWS Key Management Service (AWS KMS) to automatically rotate the keys for the DB instance. Use RDS read replicas to handle the increases in database connections.

C. Configure AWS Secrets Manager to automatically rotate the credentials for the DB instance. Use RDS Proxy to handle the increases in database connections.

D. Configure AWS Secrets Manager to automatically rotate the credentials for the DB instance. Use RDS read replicas to handle the increases in database connections.

Correct Answer: C

Amazon RDS Proxy is available for Amazon Aurora with MySQL compatibility, Amazon Aurora with PostgreSQL compatibility, Amazon RDS for MariaDB, Amazon RDS for MySQL, and Amazon RDS for PostgreSQL.

QUESTION 2

A company\\'s SysOps administrator deploys a public Network Load Balancer (NLB) in front of the company\\'s web application. The web application does not use any Elastic IP addresses. Users must access the web application by using the company\\'s domain name. The SysOps administrator needs to configure Amazon Route 53 to route traffic to the NLB. Which solution will meet these requirements MOST cost-effectively?

A. Create a Route 53 AAAA record for the NLB.

B. Create a Route 53 alias record for the NLB.

C. Create a Route 53 CAA record for the NLB.

D. Create a Route 53 CNAME record for the NLB.

Correct Answer: B

A record = URL to IPv4 AAAA record = URL to IPv6 CNAME record = URL to URL (All the same, one url = Many URL\\'s) Alias record = AWS service

QUESTION 3

A company analyzes sales data for its customers. Customers upload files to one of the company\\'s Amazon S3 buckets, and a message is posted to an Amazon Simple Queue Service (Amazon SQS) queue that contains the object Amazon

Resource Name (ARN). An application that runs on an Amazon EC2 instance polls the queue and processes the messages. The processing time depends on the size of the file. Customers are reporting delays in the processing of their files.

A SysOps administrator decides to configure Amazon EC2 Auto Scaling as the first step. The SysOps administrator creates an Amazon Machine Image (AMI) that is based on the existing EC2 instance. The SysOps administrator also creates

a launch template that references the AMI.

How should the SysOps administrator configure the Auto Scaling policy to improve the response time?

A. Add several different instance sizes in the launch template. Create an Auto Scaling policy based on the ApproximateNumberOfMessagesVisible metric to select the size of the instance based on the number of messages in the queue.

B. Create an Auto Scaling policy based on the ApproximateNumberOfMessagesDelayed metric to scale the number of instances based on the number of messages in the queue that have been delayed.

C. Create a custom metric based on the ASGAverageCPUUtilization metric and the GroupPendingInstances metric from the Auto Scaling group. Modify the application to calculate the metric and post the metric to Amazon CloudWatch once each minute. Create an Auto Scaling policy based on this metric to scale the number of instances.

D. Create a custom metric based on the ApproximateNumberOfMessagesVisible metric and the number of instances in the InService state in the Auto Scaling group. Modify the application to calculate the metric and post the metric to Amazon CloudWatch once each minute. Create an Auto Scaling policy based on this metric to scale the number of instances.

Correct Answer: D

When there are delays in processing files due to a high volume of messages in the queue, adding more instances using Auto Scaling can help to reduce the processing time. The ApproximateNumberOfMessagesVisible metric is a good indicator of the workload on the EC2 instances. By creating an Auto Scaling policy based on this metric, the number of instances can be scaled up or down depending on the number of messages in the queue.

QUESTION 4

A company needs to restrict access to an Amazon S3 bucket to Amazon EC2 instances in a VPC only. All traffic must be over the AWS private network.

What actions should the SysOps administrator take to meet these requirements?

A. Create a VPC endpoint for the S3 bucket, and create an IAM policy that conditionally limits all S3 actions on the bucket to the VPC endpoint as the source.

B. Create a VPC endpoint for the S3 bucket, and create an S3 bucket policy that conditionally limits all S3 actions on the bucket to the VPC endpoint as the source.

C. Create a service-linked role for Amazon EC2 that allows the EC2 instances to interact directly with Amazon S3, and attach an IAM policy to the role that allows the EC2 instances full access to the S3 bucket.

D. Create a NAT gateway in the VPC, and modify the VPC route table to route all traffic destined for Amazon S3 through the NAT gateway.

Correct Answer: B

While IAM policy (letter A) also can be used, it does not enforce everyone. The only option that enforces everyone is policy configured directly in the bucket S3.

QUESTION 5

A company\\'s SysOps administrator must ensure that all Amazon EC2 Windows instances that are launched in an AWS account have a third-party agent installed. The third-party agent has an msi package. The company uses AWS Systems Manager for patching, and the Windows instances are tagged appropriately. The third-party agent required periodic updates as new versions are released. The SysOps administrator must deploy these updates automatically

Which combination of steps will meet these requirements with the LEAST operational effort? (Seed TWO.)

A. Create a Systems Manager Distributor package for the third-party agent.

B. Make sure that Systems Manager Inventory Is configured. If Systems Manager Inventory is not configured, set up a new inventory tor instances that is based on the appropriate tag value for Windows.

C. Create a Systems Manager State Manager association to run the AWS- RunRemoteScript document. Populate the details of the third-party agent package. Specify instance tags based on the appropriate tag value for Windows with a schedule of 1 day

D. Create a Systems Manager State Manager- association to run the AWS- ConfigureAWSPackage document. Populate the details of the third-party agent package. Specify instance tags based on the appropriate tag value for Windows with a schedule of 1 day

E. Create a Systems Manager Opsitem with the tag value for Windows Attach the Systems Manager Distributor package to the Opsitem. Create a maintenance window that is specific to the package deployment Configure the maintenance window to cover 24 hours a day.

Correct Answer: AD

Step A: Create a Systems Manager Distributor package for the third-party agent.

Systems Manager Distributor allows you to package and distribute software and files to your instances using SSM. By creating a Distributor package for the third-party agent\\'s .msi package, you can centrally manage its installation and

updates across EC2 instances.

Step D: Create a Systems Manager State Manager association to run the AWS-ConfigureAWSPackage document. Populate the details of the third-party agent package. Specify instance tags based on the appropriate tag value for Windows

with a schedule of 1 day.

AWS-ConfigureAWSPackage document is used to install software packages on EC2 instances. By creating a State Manager association with AWS-ConfigureAWSPackage document and specifying the instance tags based on the appropriate

tag value for Windows, you can ensure that the third-party agent package is deployed on the instances automatically.

https://docs.aws.amazon.com/systems-manager/latest/userguide/distributor-working-with-packages-deploy.html