

SOA-C02^{Q&As}

AWS Certified SysOps Administrator - Associate (SOA-C02)

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QUESTION 1

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 2

A global gaming company is preparing to launch a new game on AWS. The game runs in multiple AWS Regions on a fleet of Amazon EC2 instances. The instances are in an Auto Scaling group behind an Application Load Balancer (ALB) in each Region. The company plans to use Amazon Route 53 for DNS services. The DNS configuration must direct users to the Region that is closest to them and must provide automated failover.

Which combination of steps should a SysOps administrator take to configure Route 53 to meet these requirements? (Select TWO.)

- A. Create Amazon CloudWatch alarms that monitor the health of the ALB in each Region. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- B. Create Amazon CloudWatch alarms that monitor the health of the EC2 instances in each Region. Configure Route 53 DNS failover by using a health check that monitors the alarms.
- C. Configure Route 53 DNS failover by using a health check that monitors the private address of an EC2 instance in each Region.
- D. Configure Route 53 geoproximity routing. Specify the Regions that are used for the infrastructure.
- E. Configure Route 53 simple routing. Specify the continent, country, and state or province that are used for the infrastructure.

Correct Answer: AD

Option B is not correct because monitoring the health of the EC2 instances is not sufficient to provide failover as the EC2 instances are in an Auto Scaling group and instances can be added or removed dynamically.

Option C is not correct because monitoring the private IP address of an EC2 instance is not sufficient to determine the health of the infrastructure, as the instance may still be running but the application or service on the instance may be

unhealthy.

Option E is not correct because simple routing does not take into account geographic proximity, which is a requirement in this scenario.

QUESTION 3

A company is expanding its use of AWS services across its portfolios. The company wants to provision AWS accounts for each team to ensure a separation of business processes for security compliance and billing. Account creation and bootstrapping should be completed in a scalable and efficient way so new accounts are created with a defined baseline and governance guardrails in place. A SysOps administrator needs to design a provisioning process that saves time and resources.

Which action should be taken to meet these requirements?

- A. Automate using AWS Elastic Beanstalk to provision the AWS accounts, set up infrastructure, and integrate with AWS Organizations
- B. Create bootstrapping scripts in AWS OpsWorks and combine them with AWS CloudFormation templates to provision accounts and infrastructure
- C. Use AWS Config to provision accounts and deploy instances using AWS Service Catalog
- D. Use AWS Control Tower to create a template in Account Factory and use the template to provision new accounts

Correct Answer: D

If you are hosting more than a handful of accounts, it's beneficial to have an orchestration layer that facilitates account deployment and account governance. You can adopt AWS Control Tower as your primary way to provision accounts and infrastructure. With AWS Control Tower, you can more easily adhere to corporate standards, meet regulatory requirements, and follow best practices.

AWS Control Tower enables end users on your distributed teams to provision new AWS accounts quickly, by means of configurable account templates in Account Factory. Meanwhile, your central cloud administrators can monitor that all accounts are aligned with established, company-wide compliance policies.

QUESTION 4

A company is using Amazon Elastic Container Service (Amazon ECS) to run a containerized application on Amazon EC2 instances. A SysOps administrator needs to monitor only traffic flows between the ECS tasks. Which combination of steps should the SysOps administrator take to meet this requirement? (Select TWO.)

- A. Configure Amazon CloudWatch Logs on the elastic network interface of each task.
- B. Configure VPC Flow Logs on the elastic network interface of each task.
- C. Specify the `awsvpc` network mode in the task definition.
- D. Specify the `bridge` network mode in the task definition.
- E. Specify the `host` network mode in the task definition.

Correct Answer: BC

The awsvpc network mode also provides greater security for your containers by enabling you to use security groups and network monitoring tools at a more granular level within your tasks. Because each task gets its own elastic network interface (ENI), you can also use other Amazon EC2 networking features such as VPC Flow Logs to monitor traffic to and from your tasks. Additionally, containers that belong to the same task can communicate over the localhost interface.

QUESTION 5

A company's SysOps administrator maintains a highly available environment. The environment includes Amazon EC2 instances and an Amazon RDS Multi-AZ database. The EC2 instances are in an Auto Scaling group behind an Application Load Balancer.

Recently, the company conducted a failover test. The SysOps administrator needs to decrease the failover time of the RDS database by at least 10%.

Which solution will meet this requirement?

- A. Increase the RDS instance size.
- B. Modify the RDS cluster to run in a single Availability Zone.
- C. Create a read replica in another AWS Region. Promote the read replica in case of failure.
- D. Create an RDS proxy. Point the application to the proxy endpoint.

Correct Answer: D

Option D (Create an RDS proxy. Point the application to the proxy endpoint) is the correct solution for decreasing failover time. An RDS proxy acts as an intermediate layer between the application and the RDS database. It allows for fast and automated failover during Multi-AZ database failover scenarios. When a failover occurs, the RDS proxy automatically connects the application to the new primary instance, reducing the time it takes for the application to be back online.

By using an RDS proxy, the failover time is reduced because the proxy maintains connections to both the primary and standby database instances. It also automatically routes the connections to the healthy instance, making the failover process seamless for the application.

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