

# SOA-C02<sup>Q&As</sup>

AWS Certified SysOps Administrator - Associate (SOA-C02)

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### QUESTION 1

A SysOps administrator needs to control access to groups of Amazon EC2 instances using AWS Systems Manager Session Manager. Specific tags on the EC2 instances have already been added. Which additional actions should the administrator take to control access? (Choose two.)

- A. Attach an IAM policy to the users or groups that require access to the EC2 instances.
- B. Attach an IAM role to control access to the EC2 instances.
- C. Create a placement group for the EC2 instances and add a specific tag.
- D. Create a service account and attach it to the EC2 instances that need to be controlled.
- E. Create an IAM policy that grants access to any EC2 instances with a tag specified in the Condition element.

Correct Answer: BE

In the navigation pane, choose Roles, and then choose Create role.

In the navigation pane, choose Roles, and then choose the existing role you want to associate with an instance profile for Systems Manager operations.

On the Permissions tab, choose Add permissions, Attach policies.

<https://docs.aws.amazon.com/systems-manager/latest/userguide/setup-instance-profile.html>

The instance role for the instances must reference a policy that allows access to the appropriate services; you can create your own or use AmazonSSMManagedInstanceCore.

<https://aws.amazon.com/blogs/aws/new-session-manager/>

Attach the IAM role to your private EC2 instance.

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-systems-manager-vpc-endpoints/>

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### 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.

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### QUESTION 3

An ecommerce company has built a web application that uses an Amazon Aurora DB cluster. The DB cluster includes memory optimized instance types with both a writer node and a reader node. Traffic volume changes throughout the day.

During sudden traffic surges, Amazon CloudWatch metrics for the DB cluster indicate high RAM consumption and an increase in select latency.

A SysOps administrator must implement a configuration change to improve the performance of the DB cluster. The change must minimize downtime and must not result in the loss of data.

Which change will meet these requirements?

A. Add an Aurora Replica to the DB cluster.

B. Modify the DB cluster to convert the DB cluster into a multi-master DB cluster.

C. Take a snapshot of the DB cluster. From that snapshot, create a new DB cluster that has larger memory optimized instances.

D. Increase the disk storage capacity of the DB cluster to double the existing disk capacity.

Correct Answer: A

To improve the performance of the Aurora DB cluster, while minimizing downtime and without losing data, option A - adding an Aurora Replica to the DB cluster, is the best choice.

Adding an Aurora Replica would create a new reader node in the cluster, which can help distribute the load during sudden traffic surges, and reduce the select latency. This can also help reduce RAM consumption on the writer node. Additionally, adding a replica can be done with minimal downtime, as it does not require any changes to the application, and data will be automatically replicated from the writer node to the new replica.

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#### QUESTION 4

A user is connected to an Amazon EC2 instance in a private subnet. The user is unable to access the internet from the instance by using the following curl command: `curl http://www.example.com`.

A SysOps administrator reviews the VPC configuration and learns the following information:

1.  
The private subnet has a route to a NAT gateway for CIDR 0.0.0.0/0
2.  
The outbound security group for the EC2 instance contains one rule: outbound for port 443 to CIDR 0.0.0.0/0
3.  
The inbound security group for the EC2 instance allows ports 22 and 443 from the user's IP address.
4.  
The inbound network ACL for the subnet allows port 22 and port range 1024-65535 from CIDR 0.0.0.0/0

Which action will allow the user to complete the curl request successfully?

- A. Add an additional inbound network ACL rule for port 80 to CIDR 0.0.0.0/0.
- B. Add an additional inbound security group rule for port 80 to CIDR 0.0.0.0/0.
- C. Add an additional outbound security group rule for port 80 to CIDR 0.0.0.0/0.
- D. Add an additional outbound security group rule for port 80 to the user's IP address.

Correct Answer: C

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#### QUESTION 5

A company is planning to host an application on a set of Amazon EC2 instances that are distributed across multiple Availability Zones. The application must be able to scale to millions of requests each second.

A SysOps administrator must design a solution to distribute the traffic to the EC2 instances. The solution must be optimized to handle sudden and volatile traffic patterns while using a single static IP address for each Availability Zone.

Which solution will meet these requirements?

- A. Amazon Simple Queue Service (Amazon SQS) queue
- B. Application Load Balancer
- C. AWS Global Accelerator
- D. Network Load Balancer

Correct Answer: D

"Network Load Balancer is optimized to handle sudden and volatile traffic patterns while using a single static IP address per Availability Zone." <https://aws.amazon.com/elasticloadbalancing/network-load-balancer/>

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