



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

AWS Certified SysOps Administrator - Associate (SOA-C02)

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## QUESTION 1

A SysOps administrator is setting up an automated process to recover an Amazon EC2 instance in the event of an underlying hardware failure. The recovered instance must have the same private IP address and the same Elastic IP address that the original instance had. The SysOps team must receive an email notification when the recovery process is initiated.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the `StatusCheckFailed_Instance` metric. Add an EC2 action to the alarm to recover the instance. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the SysOps team email address to the SNS topic.
- B. Create an Amazon CloudWatch alarm for the EC2 instance, and specify the `StatusCheckFailed_System` metric. Add an EC2 action to the alarm to recover the instance. Add an alarm notification to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the SysOps team email address to the SNS topic.
- C. Create an Auto Scaling group across three different subnets in the same Availability Zone with a minimum, maximum, and desired size of 1. Configure the Auto Scaling group to use a launch template that specifies the private IP address and the Elastic IP address. Add an activity notification for the Auto Scaling group to send an email message to the SysOps team through Amazon Simple Email Service (Amazon SES).
- D. Create an Auto Scaling group across three Availability Zones with a minimum, maximum, and desired size of 1. Configure the Auto Scaling group to use a launch template that specifies the private IP address and the Elastic IP address. Add an activity notification for the Auto Scaling group to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the SysOps team email address to the SNS topic.

Correct Answer: B

You can create an Amazon CloudWatch alarm that monitors an Amazon EC2 instance and automatically recovers the instance if it becomes impaired due to an underlying hardware failure or a problem that requires AWS involvement to repair. Terminated instances cannot be recovered. A recovered instance is identical to the original instance, including the instance ID, private IP addresses, Elastic IP addresses, and all instance metadata. If the impaired instance has a public IPv4 address, the instance retains the public IPv4 address after recovery. If the impaired instance is in a placement group, the recovered instance runs in the placement group. When the `StatusCheckFailed_System` alarm is triggered, and the recover action is initiated, you will be notified by the Amazon SNS topic that you selected when you created the alarm and associated the recover action.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-recover.html>

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## QUESTION 2

A company recently migrated its application to a VPC on AWS. An AWS Site-to-Site VPN connection connects the company's on-premises network to the VPC. The application retrieves customer data from another system that resides on premises. The application uses an on-premises DNS server to resolve domain records. After the migration, the application is not able to connect to the customer data because of name resolution errors. Which solution will give the application the ability to resolve the internal domain names?

- A. Launch EC2 instances in the VPC. On the EC2 instances, deploy a custom DNS forwarder that forwards all DNS requests to the on-premises DNS server. Create an Amazon Route 53 private hosted zone that uses the EC2 instances for name servers.
- B. Create an Amazon Route 53 Resolver outbound endpoint. Configure the outbound endpoint to forward DNS queries against the on-premises domain to the on-premises DNS server.



C. Set up two AWS Direct Connect connections between the AWS environment and the on-premises network. Set up a link aggregation group (LAG) that includes the two connections. Change the VPC resolver address to point to the on-premises DNS server.

D. Create an Amazon Route 53 public hosted zone for the on-premises domain. Configure the network ACLs to forward DNS requests against the on-premises domain to the Route 53 public hosted zone.

Correct Answer: B

To forward DNS queries that originate on Amazon EC2 instances in one or more VPCs to your network  
[https://docs.aws.amazon.com/zh\\_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html](https://docs.aws.amazon.com/zh_tw/Route53/latest/DeveloperGuide/resolver-forwarding-outbound-queries.html)

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### QUESTION 3

A company is running distributed computing software to manage a fleet of 20 Amazon EC2 instances for calculations. The fleet includes 2 control nodes and 18 task nodes to run the calculations. Control nodes can automatically start the task

nodes.

Currently, all the nodes run on demand. The control nodes must be available 24 hours a day, 7 days a week. The task nodes run for 4 hours each day. A SysOps administrator needs to optimize the cost of this solution.

Which combination of actions will meet these requirements? (Choose two.)

- A. Purchase EC2 Instance Savings Plans for the control nodes.
- B. Use Dedicated Hosts for the control nodes.
- C. Use Reserved Instances for the task nodes.
- D. Use Spot Instances for the control nodes. Use On-Demand Instances if there is no Spot availability.
- E. Use Spot Instances for the task nodes. Use On-Demand Instances if there is no Spot availability.

Correct Answer: AE

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### QUESTION 4

A SysOps administrator created an Amazon VPC with an IPv6 CIDR block, which requires access to the internet. However, access from the internet towards the VPC is prohibited. After adding and configuring the required components to the VPC, the administrator is unable to connect to any of the domains that reside on the internet.

What additional route destination rule should the administrator add to the route tables?

- A. Route `::/0` traffic to a NAT gateway
- B. Route `::/0` traffic to an internet gateway
- C. Route `0.0.0.0/0` traffic to an egress-only internet gateway
- D. Route `::/0` traffic to an egress-only internet gateway



Correct Answer: D

IPv6 addresses are globally unique, and are therefore public by default. If you want your instance to be able to access the internet, but you want to prevent resources on the internet from initiating communication with your instance, you can use an egress-only internet gateway. To do this, create an egress-only internet gateway in your VPC, and then add a route to your route table that points all IPv6 traffic (::/0) or a specific range of IPv6 address to the egress-only internet gateway. IPv6 traffic in the subnet that's associated with the route table is routed to the egress-only internet gateway.

<https://docs.aws.amazon.com/vpc/latest/userguide/egress-only-internet-gateway.html>

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#### QUESTION 5

A SysOps administrator is responsible for managing a fleet of Amazon EC2 instances. These EC2 instances upload build artifacts to a third-party service. The third-party service recently implemented a strict IP allow list that requires all build

uploads to come from a single IP address.

What change should the systems administrator make to the existing build fleet to comply with this new requirement?

- A. Move all of the EC2 instances behind a NAT gateway and provide the gateway IP address to the service.
- B. Move all of the EC2 instances behind an internet gateway and provide the gateway IP address to the service.
- C. Move all of the EC2 instances into a single Availability Zone and provide the Availability Zone IP address to the service.
- D. Move all of the EC2 instances to a peered VPC and provide the VPC IP address to the service.

Correct Answer: A

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