



# SAA-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C01)

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### QUESTION 1

A restaurant reservation application needs the ability to maintain a waiting list. When a customer tries to reserve a table, and none are available, the customer must be put on the waiting list, and the application must notify the customer when a table becomes free.

What service should the Solutions Architect recommend to ensure that the system respects the order in which the customer requests are put onto the waiting list?

- A. Amazon SNS
- B. AWS Lambda with sequential dispatch
- C. A FIFO queue in Amazon SQS
- D. A standard queue in Amazon SQS

Correct Answer: D

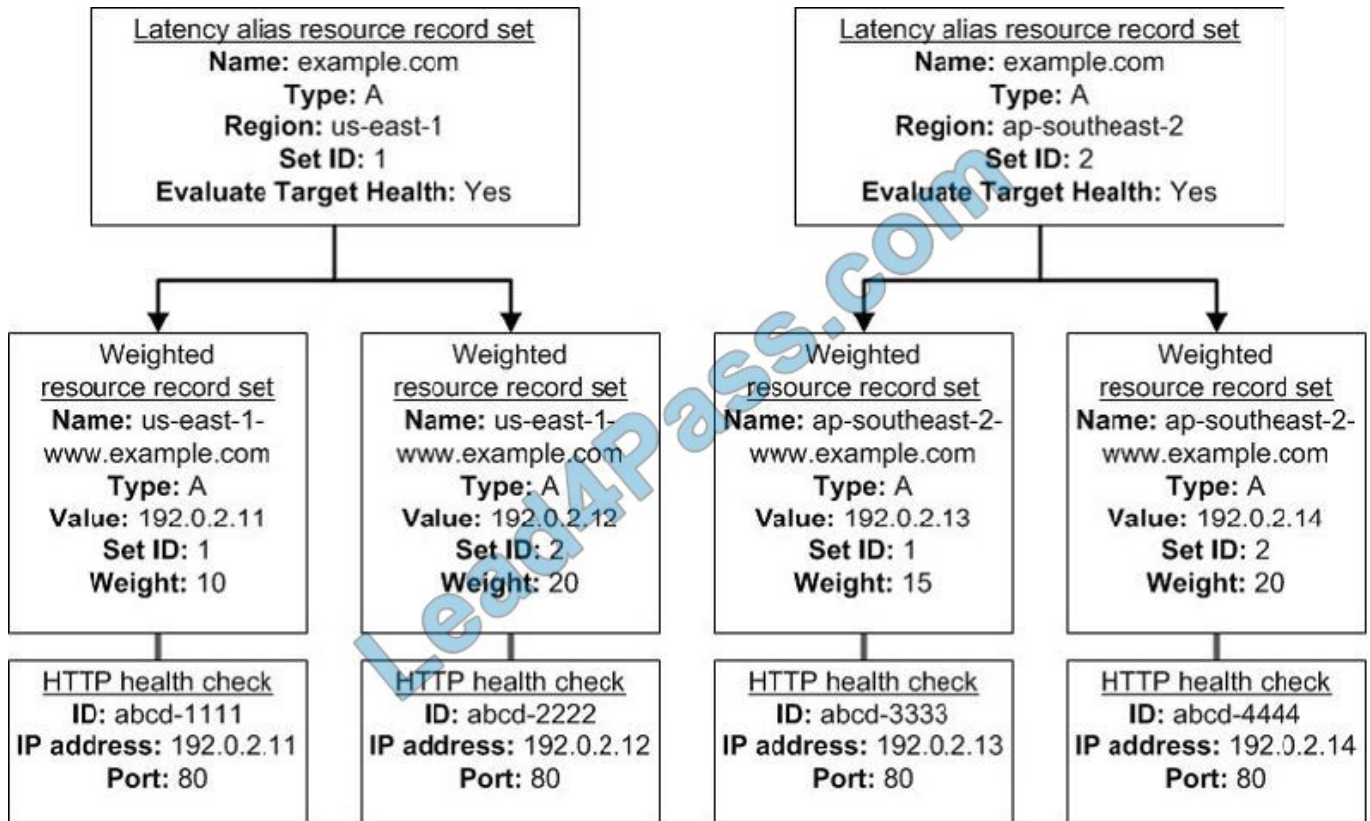
### QUESTION 2

You have deployed a web application targeting a global audience across multiple AWS Regions under the domain name.example.com. You decide to use Route53 Latency-Based Routing to serve web requests to users from the region closest to the user. To provide business continuity in the event of server downtime you configure weighted record sets associated with two web servers in separate Availability Zones per region. Running a DR test you notice that when you disable all web servers in one of the regions Route53 does not automatically direct all users to the other region. What could be happening? (Choose two.)

- A. Latency resource record sets cannot be used in combination with weighted resource record sets.
- B. You did not setup an HTTP health check for one or more of the weighted resource record sets associated with the disabled web servers.
- C. The value of the weight associated with the latency alias resource record set in the region with the disabled servers is higher than the weight for the other region.
- D. One of the two working web servers in the other region did not pass its HTTP health check.
- E. You did not set "Evaluate Target Health" to "Yes" on the latency alias resource record set associated with example.com in the region where you disabled the servers.

Correct Answer: BE

How Health Checks Work in Complex Amazon Route 53 Configurations Checking the health of resources in complex configurations works much the same way as in simple configurations. However, in complex configurations, you use a combination of alias resource record sets (including weighted alias, latency alias, and failover alias) and nonalias resource record sets to build a decision tree that gives you greater control over how Amazon Route 53 responds to requests. For more information, see How Health Checks Work in Simple Amazon Route 53 Configurations. For example, you might use latency alias resource record sets to select a region close to a user and use weighted resource record sets for two or more resources within each region to protect against the failure of a single endpoint or an Availability Zone. The following diagram shows this configuration.



Here's how Amazon EC2 and Amazon Route 53 are configured:

You have Amazon EC2 instances in two regions, us-east-1 and ap-southeast-2. You want Amazon Route 53 to respond to queries by using the resource record sets in the region that provides the lowest latency for your customers, so you

create a latency alias resource record set for each region. (You create the latency alias resource record sets after you create resource record sets for the individual Amazon EC2 instances.) Within each region, you have two Amazon EC2

instances. You create a weighted resource record set for each instance. The name and the type are the same for both of the weighted resource record sets in each region. When you have multiple resources in a region, you can create

weighted or failover resource record sets for your resources. You can also create even more complex configurations by creating weighted alias or failover alias resource record sets that, in turn, refer to multiple resources. Each weighted

resource record set has an associated health check. The IP address for each health check matches the IP address for the corresponding resource record set. This isn't required, but it's the most common configuration.

For both latency alias resource record sets, you set the value of Evaluate Target Health to Yes. You use the Evaluate Target Health setting for each latency alias resource record set to make Amazon Route 53 evaluate the health of the alias

targets--the weighted resource record sets--and respond accordingly.

The preceding diagram illustrates the following sequence of events:

Amazon Route 53 receives a query for example.com. Based on the latency for the user making the request, Amazon Route 53 selects the latency alias resource record set for the us-east-1 region. Amazon Route 53 selects a weighted

resource record set based on weight. Evaluate Target Health is Yes for the latency alias resource record set, so Amazon Route 53 checks the health of the selected weighted resource record set. The health check failed, so Amazon



### Route 53

chooses another weighted resource record set based on weight and checks its health. That resource record set also is unhealthy. Amazon Route 53 backs out of that branch of the tree, looks for the latency alias resource record set with the

next-best latency, and chooses the resource record set for ap-southeast-2. Amazon Route 53 again selects a resource record set based on weight, and then checks the health of the selected resource record set. The health check passed, so

Amazon Route 53 returns the applicable value in response to the query. What Happens When You Associate a Health Check with an Alias Resource Record Set? You can associate a health check with an alias resource record set instead of

or in addition to setting the value of Evaluate Target Health to Yes. However, it's generally more useful if Amazon Route 53 responds to queries based on the health of the underlying resources--the HTTP servers, database servers, and other

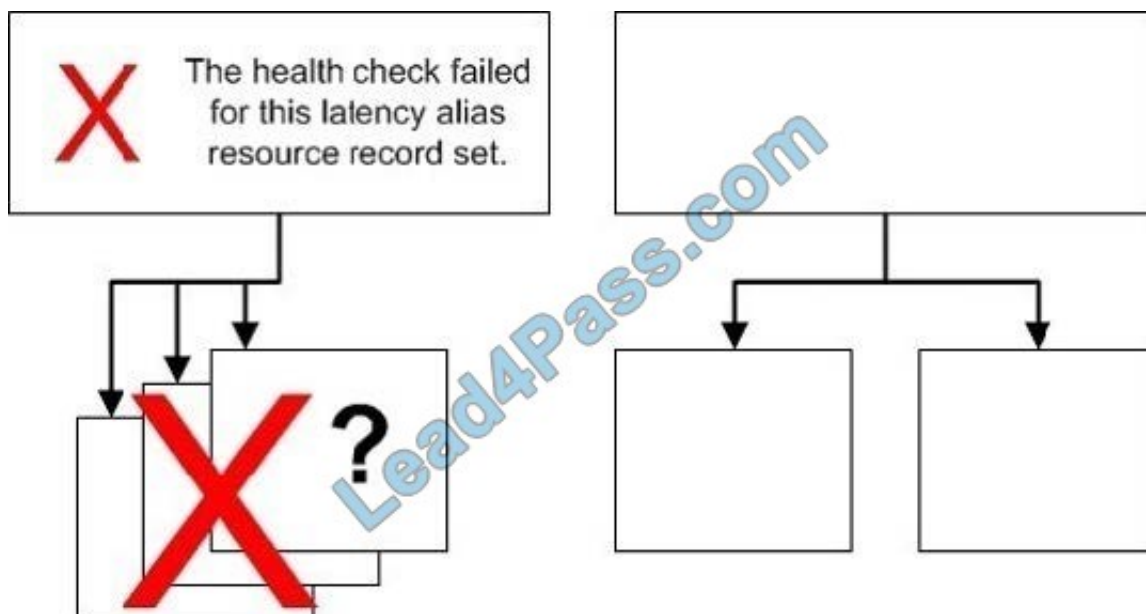
resources that your alias resource record sets refer to. For example, suppose the following configuration:

You assign a health check to a latency alias resource record set for which the alias target is a group of weighted resource record sets. You set the value of Evaluate Target Health to Yes for the latency alias resource record set. In this

configuration, both of the following must be true before Amazon Route 53 will return the applicable value for a weighted resource record set:

The health check associated with the latency alias resource record set must pass. At least one weighted resource record set must be considered healthy, either because it's associated with a health check that passes or because it's not

associated with a health check. In the latter case, Amazon Route 53 always considers the weighted resource record set healthy.



If the health check for the latency alias resource record set fails, Amazon Route 53 stops responding to queries using any of the weighted resource record sets in the alias target, even if they're all healthy. Amazon Route 53 doesn't



know the

status of the weighted resource record sets because it never looks past the failed health check on the alias resource record set.

What Happens When You Omit Health Checks?

In a complex configuration, it's important to associate health checks with all of the non-alias resource record sets. Let's return to the preceding example, but assume that a health check is missing on one of the weighted resource record sets in

the us-east-1 region:

Here's what happens when you omit a health check on a non-alias resource record set in this configuration:

Amazon Route 53 receives a query for example.com. Based on the latency for the user making the request, Amazon Route 53 selects the latency alias resource record set for the us-east-1 region. Amazon Route 53 looks up the alias target

for the latency alias resource record set, and checks the status of the corresponding health checks. The health check for one weighted resource record set failed, so that resource record set is omitted from consideration. The other weighted

resource record set in the alias target for the us-east-1 region has no health check. The corresponding resource might or might not be healthy, but without a health check, Amazon Route 53 has no way to know. Amazon Route 53 assumes

that the resource is healthy and returns the applicable value in response to the query.

What Happens When You Set Evaluate Target Health to No?

In general, you also want to set Evaluate Target Health to Yes for all of the alias resource record sets. In the following example, all of the weighted resource record sets have associated health checks, but Evaluate Target Health is set to No

for the latency alias resource record set for the us-east-1 region:

Here's what happens when you set Evaluate Target Health to No for an alias resource record set in this configuration:

Amazon Route 53 receives a query for example.com. Based on the latency for the user making the request, Amazon Route 53 selects the latency alias resource record set for the us-east-1 region. Amazon Route 53 determines what the alias

target is for the latency alias resource record set, and checks the corresponding health checks. They're both failing.

Because the value of Evaluate Target Health is No for the latency alias resource record set for the us-east-1 region, Amazon Route 53 must choose one resource record set in this branch instead of backing out of the branch and looking for a

healthy resource record set in the ap-southeast-2 region.

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### QUESTION 3

How can a user track memory usage in an EC2 instance?

A. Call Amazon CloudWatch to retrieve the memory usage metric data that exists for the EC2 instance.



- B. Assign an IAM role to the EC2 instance with an IAM policy granting access to the desired metric.
- C. Use an instance type that supports memory usage reporting to a metric by default.
- D. Place an agent on the EC2 instance to push memory usage to an Amazon CloudWatch custom metric.

Correct Answer: D

Reference: <https://www.quora.com/How-can-I-monitor-memory-usage-on-Amazon-EC2>

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#### QUESTION 4

A company has a legal requirement to store point-in-time copies of its Amazon RDS PostgreSQL database instance in facilities that are at least 200 miles apart.

Use of which of the following provides the easiest way to comply with this requirement?

- A. Cross-region read replica
- B. Multiple Availability Zone snapshot copy
- C. Multiple Availability Zone read replica
- D. Cross-region snapshot copy

Correct Answer: D

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#### QUESTION 5

A media company has deployed a multi-tier architecture on AWS. Web servers are deployed in two Availability Zones using an Auto Scaling group with a default Auto Scaling termination policy. The web servers' Auto Scaling group currently has 15 instances running.

Which instance will be terminated first during a scale-in operation?

- A. The instance with the oldest launch configuration.
- B. The instance in the Availability Zone that has most instances.
- C. The instance closest to the next billing hour.
- D. The oldest instance in the group.

Correct Answer: A

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