



SAA-C01^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C01)





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QUESTION 1

An application stack includes an Elastic Load Balancer in a public subnet, a fleet of Amazon EC2 instances in an Auto Scaling group, and an Amazon RDS MySQL cluster. Users connect to the application from the Internet. The application servers and database must be secure.

How should a Solutions Architect perform this task?

- A. Create a private subnet for the Amazon EC2 instances and a public subnet for the Amazon RDS cluster.
- B. Create a private subnet for the Amazon EC2 instances and a private subnet for the Amazon RDS cluster.
- C. Create a public subnet for the Amazon EC2 instances and a private subnet for the Amazon RDS cluster.
- D. Create a public subnet for the Amazon EC2 instances and a public subnet for the Amazon RDS cluster.

Correct Answer: C

QUESTION 2

An application has components running in a public subnet and a private subnet. The components within the private subnet must connect to the internet to receive updates. How should this be accomplished without moving the components into a public subnet?

- A. Add an internet gateway to the private subnet and update the private subnet route table.
- B. Add a NAT gateway to the public subnet and update the public subnet route table.
- C. Add an internet gateway to the VPC and update the private subnet route table.
- D. Add a NAT gateway to the public subnet and update the private subnet route table.

Correct Answer: D

A NAT gateway with its own Elastic IPv4 address. Instances in the private subnet can send requests to the Internet through the NAT gateway over IPv4 (for example, for software updates). Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html

QUESTION 3

You are designing the network infrastructure for an application server in Amazon VPC. Users will access all the application instances from the Internet as well as from an on-premises network. The on-premises network is connected to your

VPC over an AWS Direct Connect link.

How would you design routing to meet the above requirements?

- A. Configure a single routing Table with a default route via the Internet gateway. Propagate a default route via BGP on the AWS Direct Connect customer router. Associate the routing table with all VPC subnets.



- B. Configure a single routing table with a default route via the internet gateway Propagate specific routes for the on-premises networks via BGP on the AWS Direct Connect customer router Associate the routing table with all VPC subnets.
- C. Configure a single routing table with two default routes: one to the internet via an Internet gateway the other to the on-premises network via the VPN gateway use this routing table across all subnets in your VPC,
- D. Configure two routing tables one that has a default route via the Internet gateway and another that has a default route via the VPN gateway Associate both routing tables with each VPC subnet.

Correct Answer: B

QUESTION 4

An organization is deploying Amazon ElastiCache for Redis and requires password protection to improve their data security posture. Which solution should a Solutions Architect recommend?

- A. Redis Auth
- B. AWS Single Sign-On
- C. IAM database authentication
- D. VPC security group for Redis

Correct Answer: A

Reference: <https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/auth.html>

QUESTION 5

Your department creates regular analytics reports from your company's log files. All log data is collected in Amazon S3 and processed by daily Amazon Elastic MapReduce (EMR) jobs that generate daily PDF reports and aggregated tables in

CSV format for an Amazon Redshift data warehouse.

Your CFO requests that you optimize the cost structure for this system.

Which of the following alternatives will lower costs without compromising average performance of the system or data integrity for the raw data?

- A. Use reduced redundancy storage (RRS) for all data in S3. Use a combination of Spot Instances and Reserved Instances for Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.
- B. Use reduced redundancy storage (RRS) for PDF and .csv data in S3. Add Spot Instances to EMR jobs. Use Spot Instances for Amazon Redshift.
- C. Use reduced redundancy storage (RRS) for PDF and .csv data in Amazon S3. Add Spot Instances to Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.
- D. Use reduced redundancy storage (RRS) for all data in Amazon S3. Add Spot Instances to Amazon EMR jobs. Use Reserved Instances for Amazon Redshift.



Correct Answer: D

Reserved Instances (a.k.a. Reserved Nodes) are appropriate for steady-state production workloads, and offer significant discounts over On-Demand pricing. <https://aws.amazon.com/redshift>

Q: What are some EMR best practices?

If you are running EMR in production you should specify an AMI version, Hive version, Pig version, etc. to make sure the version does not change unexpectedly (e.g. when EMR later adds support for a newer version). If your cluster is mission

critical, only use Spot instances for task nodes because if the Spot price increases you may lose the instances. In development, use logging and enable debugging to spot and correct errors faster. If you are using GZIP, keep your file size to 1-2 GB because GZIP files cannot be split. Click here to download the white paper on Amazon EMR best practices. <https://aws.amazon.com/elasticmapreduce/faqs>

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