



Amazon

SAA-C01

AWS Certified Solutions Architect – Associate

Question & Answers

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QUESTION: 1

A Solution Architect is designing an application that uses Amazon EBS volumes. The volumes must be backed up to a different region. How should the Architect meet this requirement?

- A. Create EBS snapshots directly from one region to another.
- B. Move the data to an Amazon S3 bucket and enable cross-region replication.
- C. Create EBS snapshots and then copy them to the desired region.
- D. Use a script to copy data from the current Amazon EBS volume to the destination Amazon EBS volume.

Answer: C

QUESTION: 2

An organization is currently hosting a large amount of frequently accessed data consisting of key-value pairs and semi-structured documents in their data center. They are planning to move this data to AWS. Which of one of the following services MOST effectively meets their needs?

- A. Amazon Redshift
- B. Amazon RDS
- C. Amazon DynamoDB
- D. Amazon Aurora

Answer: C

QUESTION: 3

An application produces monthly reports that must be immediately accessible for up to 7 days. After 7 days, the data can be archived. Compliance policies require that the archived data be retrievable within 24 hours of a request. What is the MOST cost-effective approach to satisfy the compliance requirement?

- A. Store the data in Amazon S3 Standard storage with a lifecycle rule to transition the data to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) after 7 days, then transition to the GLACIER storage class after 30 days
- B. Store the data in Amazon S3 Standard storage with a lifecycle rule to transition the data to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) after 7 days
- C. Store the data in Amazon S3 Standard storage with a lifecycle rule to transition the data to the GLACIER storage class after 30 days

D. Store the data in Amazon S3 Standard storage with a lifecycle rule to transition the data to the GLACIER storage class after 7 days

Answer: D

QUESTION: 4

A company needs to quickly ensure that all files created in an Amazon S3 bucket in us-east-1 are also available in another bucket in ap-southeast-2. Which option represents the SIMPLIEST way to implement this design?

- A. Add an S3 lifecycle rule to move any files from the bucket in us-east-1 to the bucket in ap-southeast-2.
- B. Create a Lambda function to be triggered for every new file in us-east-1 that copies the file to the bucket in ap-southeast-2.
- C. Use SNS to notify the bucket in ap-southeast-2 to create a file whenever the file is created in the bucket in us-east-1.
- D. Enable versioning and configure cross-region replication from the bucket in us-east-1 to the bucket in ap-southeast-2.

Answer: D

QUESTION: 5

To meet compliance standards, a company must have encrypted archival data storage. Data will be accessed infrequently, with lead times well in advance of when archived data must be recovered. The company requires that the storage be secure, durable, and provided at the lowest price per 1TB of data stored. What type of storage should be used?

- A. Amazon S3
- B. Amazon EBS
- C. Amazon Glacier
- D. Amazon EFS

Answer: C

QUESTION: 6

A Solutions Architect must design an Amazon DynamoDB table to store data about customer activities. The data is used to analyze recent customer behavior, so data that is less than a week old is heavily accessed and older data is accessed infrequently. Data that is

more than one month old never needs to be referenced by the application, but needs to be archived for year-end analytics. What is the MOST cost-efficient way to meet these requirements? (Choose two.)

- A. Use DynamoDB time-to-live settings to expire items after a certain time period.
- B. Provision a higher write capacity unit to minimize the number of partitions.
- C. Create separate tables for each week's data with higher throughput for the current week.
- D. Pre-process data to consolidate multiple records to minimize write operations.
- E. Export the old table data from DynamoDB to Amazon S3 using AWS Data Pipeline, and delete the old table.

Answer: C, E

QUESTION: 7

A gaming application is heavily dependent on caching and uses Amazon ElastiCache for Redis. The application performance was recently degraded due to failure of the cachecode. What should a Solutions Architect recommend to minimize performance degradation in the future?

- A. Migrate from ElastiCache to Amazon RDS
- B. Configure automatic backup to save cache data
- C. Configure ElastiCache Multi-AZ with automatic failover
- D. Use Auto Scaling to provision cache nodes based on CPU usage

Answer: C

QUESTION: 8

A Solutions Architect is designing a web application that will be hosted on Amazon EC2 instances in a public subnet. The web application uses a MySQL database in a private subnet. The database should be accessible to database administrators. Which of the following options should the Architect recommend? (Choose two.)

- A. Create a bastion host in a public subnet, and use the bastion host to connect to the database.
- B. Log in to the web servers in the public subnet to connect to the database.
- C. Perform DB maintenance after using SSH to connect to the NAT Gateway in a public subnet.
- D. Create an IPSec VPN tunnel between the customer site and the VPC, and use the VPN

tunnel to connect to the database.

E. Attach an Elastic IP address to the database.

Answer: A D

QUESTION: 9

A user is designing a new service that receives location updates from 3,600 rental cars every hour. The cars upload their location to an Amazon S3 bucket. Each location must be checked for distance from the original rental location. Which services will process the updates and automatically scale?

- A. Amazon EC2 and Amazon EBS
- B. Amazon Kinesis Firehouse and Amazon S3
- C. Amazon ECS and Amazon RDS
- D. Amazon S3 events and AWS Lambda

Answer: D

QUESTION: 10

A Solutions Architect is building a WordPress-based web application hosted on AWS using Amazon EC2. This application serves as a blog for an international internet security company. The application must be geographically redundant and scalable. It must separate the public Amazon EC2 web servers from the private Amazon RDS database, it must be highly available, and it must support dynamic port routing. Which combination of AWS services or capabilities will meet these requirements?

- A. AWS Auto Scaling with a Classic Load Balancer, and AWS CloudTrail
- B. Amazon Route 53, Auto Scaling with an Application Load Balancer, and Amazon CloudFront
- C. A VPC, a NAT gateway and Auto Scaling with a Network Load Balancer D. CloudFront, Route 53, and Auto Scaling with a Classic Load Balancer

Answer: B

QUESTION: 11

A web server will be provisioned on two Amazon EC2 instances with an Application Load Balancer. Which of the following configurations will allow traffic on HTTP and HTTPS when configuring a security group to apply to each of these servers?

- A. Allow all inbound traffic, with explicit denies on non-HTTP and non-HTTPS ports.
- B. Allow incoming traffic to HTTP and HTTPS ports.
- C. Allow incoming traffic to HTTP and HTTPS ports, with explicit denies to all other ports.
- D. Deny all traffic to non-HTTP and non-HTTPS ports

Answer: B

QUESTION: 12

A workload in an Amazon VPC consists of a single web server launched from a custom AMI. Session state is stored in a database. How should the Solutions Architect modify this workload to be both highly available and scalable?

- A. Create a launch configuration with a desired capacity of two web servers across multiple Availability Zones. Create an Auto Scaling group with the AMI ID of the web server image. Use Amazon Route 53 latency-based routing to balance traffic across the Auto Scaling group.
- B. Create a launch configuration with the AMI ID of the web server image. Create an Auto Scaling group using the newly-created launch configuration, and a desired capacity of two web servers across multiple regions. Use an Application Load Balancer (ALB) to balance traffic across the Auto Scaling group.
- C. Create a launch configuration with the AMI ID of the web server image. Create an Auto Scaling group using the newly-created launch configuration, and a desired capacity of two web servers across multiple Availability Zones. Use an ALB to balance traffic across the Auto Scaling group.
- D. Create a launch configuration with the AMI ID of the web server image. Create an Auto Scaling group using the newly-created launch configuration, and a desired capacity of two web servers across multiple Availability Zones. Use Amazon Route 53 weighted routing to balance traffic across the Auto Scaling group.

Answer: C

QUESTION: 13

A Solutions Architect is helping a customer migrate an application to AWS. The application is composed of a fleet of Linux servers that currently use a shared file system to read and write data. One of the goals of moving this application to AWS is to increase the reliability of the storage tier. What solution would increase reliability while minimizing the operational overhead of managing this infrastructure?

- A. Create an EBS volume and mount it to all the servers.
- B. Create an EFS file system and mount it to all the servers.
- C. Create an S3 bucket that can be accessed through an S3 VPC Endpoint.
- D. Create two EC2 instances in separate Availability Zones that act as file servers.

Answer: B

QUESTION: 14

A Solutions Architect is designing a ride-sharing application. The application needs consistent and single-digit millisecond latency. In addition, the application must integrate with a highly scalable and fully managed database service to track GPS coordinates and user data for all rides. Which database service should the Solutions Architect use to meet these performance requirements?

- A. Amazon RDS
- B. Amazon Redshift.
- C. Amazon DynamoDB.
- D. Amazon Aurora.

Answer: C

QUESTION: 15

A company wants to create an application that will transmit protected health information (PHI) to thousands of service consumers in different AWS accounts. The application servers will sit in private VPC subnets. The routing for the application must be fault tolerant. What should be done to meet these requirements?

- A. Create a VPC endpoint service and grant permissions to specific service consumers to create a connection.
- B. Create a virtual private gateway connection between each pair of service provider VPCs and service consumer VPCs.
- C. Create an internal Application Load Balancer in the service provider VPC and put application servers behind it.
- D. Create a proxy server in the service provider VPC to route requests from service consumers to the application servers.

Answer: A

QUESTION: 16

As part of a migration strategy, a Solutions Architect needs to analyze workloads that can be optimized for performance and cost. The Solutions Architect has identified a stateless application that serves static content as a potential candidate to move to the cloud. The Solutions Architect has the flexibility to choose an identity solution between Facebook, Twitter, and Amazon. Which AWS solution offers flexibility and ease of use, and the LEAST operational overhead for this migration?

- A. Use AWS Identity and Access Management (IAM) for managing identities, and migrate the application to run on Amazon S3, Amazon API Gateway, and AWS Lambda.
- B. Use a third-party solution for managing identities, and migrate the application to run on Amazon S3, EC2 Spot Instances, and Amazon EC2.
- C. Use Amazon Cognito for managing identities, and migrate the application to run on Amazon S3, Amazon API Gateway, and AWS Lambda.
- D. Use Amazon Cognito for managing identities, and migrate the application to run on Amazon S3, EC2 Spot Instances, and Amazon EC2.

Answer: C

QUESTION: 17

A Solutions Architect is building an online shopping application where users will be able to browse items, add items to a cart, and purchase the items. Images of items will be stored in Amazon S3 buckets organized by item category. When an item is no longer available for purchase, the item image will be deleted from the S3 bucket. Occasionally, during testing, item images deleted from the S3 bucket are still visible to some users. What is a flaw in this design approach?

- A. Defining S3 buckets by item may cause partition distribution errors, which will impact performance.
- B. Amazon S3 DELETE requests are eventually consistent, which may cause other users to view items that have already been purchased
- C. Amazon S3 DELETE requests apply a lock to the S3 bucket during the operation, causing other users to be blocked
- D. Using Amazon S3 for persistence exposes the application to a single point of failure

Answer: B

QUESTION: 18

A company is writing a new service running on Amazon EC2 that must create thumbnail

images of thousands of images in a large archive. The system will write scratch data to storage during the process. Which storage service is best suited for this scenario?

- A. EC2 instance store
- B. Amazon EFS
- C. Amazon CloudSearch
- D. Amazon EBS Throughput Optimized HDD (st1)

Answer: A

QUESTION: 19

A Company will run different data analytics jobs on large petabyte-scale datasets, Using standard SQL and existing business intelligence tools. The data is mostly structured, but part of the data unstructured and resides in Amazon S3. What Technologies should be used to support this use case?

- A. An amazon aurora database cluster with 15 replicas distributed across availability zones.
- B. Amazon Redshift with Amazon Redshift Spectrum.
- C. Amazon DynamoDB with Amazon DynamoDB Accelerator.
- D. Amazon ElastiCache for Redis with cluster mode Enabled.

Answer: B

QUESTION: 20

An application relies on messages being sent and received in order. The volume will never exceed more than 300 transactions each second. Which service should be used?

- A. Amazon SQS
- B. Amazon SNS
- C. Amazon ECS
- D. AWS STS

Answer: A