

➤ **Vendor: Amazon**

➤ **Exam Code: SAA-C02**

➤ **Exam Name: AWS Certified Solutions Architect - Associate (SAA-C02) Exam**

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QUESTION 185

A company has created an isolated backup of its environment in another Region. The application is running in warm standby mode and is fronted by an Application Load Balancer (ALB). The current failover process is manual and requires updating a DNS alias record to point to the secondary ALB in another Region. What should a solution architect do to automate the failover process?

- A. Enable an ALB health check
- B. Enable an Amazon Route 53 health check.
- C. Create a CNAME record on Amazon Route 53 pointing to the ALB endpoint.
- D. Create conditional forwarding rules on Amazon Route 53 pointing to an internal BIND DNS server.

Answer: C

QUESTION 186

A company needs to share an Amazon S3 bucket with an external vendor. The bucket owner must be able to access all objects. Which action should be taken to share the S3 bucket?

- A. Update the bucket to be a Requester Pays bucket
- B. Update the bucket to enable cross-origin resource sharing (CORS)
- C. Create a bucket policy to require users to grant bucket-owner-full when uploading objects
- D. Create an IAM policy to require users to grant bucket-owner-full control when uploading objects.

Answer: A

QUESTION 187

A company uses Amazon S3 as its object storage solution. The company has thousands of S3 buckets it uses to store data. Some of the S3 buckets have data that is accessed less frequently than others. A solutions architect found that lifecycle policies are not consistently implemented or are implemented partially, resulting in data being stored in high-cost storage. Which solution will lower costs without compromising the availability of objects?

- A. Use S3 ACLs
- B. Use Amazon Elastic Block Store (EBS) automated snapshots
- C. Use S3 Intelligent-Tiering storage
- D. Use S3 One Zone-Infrequent Access (S3 One Zone-IA).

Answer: B

QUESTION 188

A solution architect is performing a security review of a recently migrated workload. The workload is a web application that consists of Amazon EC2 instances in an Auto Scaling group behind an Application Load balancer. The solution architect must improve the security posture and minimize the impact of a DDoS attack on resources. Which solution is MOST effective?

- A. Configure an AWS WAF ACL with rate-based rules. Create an Amazon CloudFront distribution that points to the Application Load Balancer. Enable the EAF ACL on the CloudFront distribution.
- B. Create a custom AWS Lambda function that adds identified attacks into a common vulnerability pool to capture a potential DDoS attack. Use the identified information to modify a network ACL to block access.
- C. Enable VPC Flow Logs and store them in Amazon S3. Create a custom AWS Lambda function that parses the logs looking for a DDoS attack. Modify a network ACL to block identified source IP addresses.
- D. Enable Amazon GuardDuty and, configure findings written to 10 Amazon CloudWatch. Create an event with CloudWatch Events for DDoS alerts that triggers Amazon Simple Notification Service (Amazon SNS). Have Amazon SNS invoke a custom AWS Lambda function that parses the logs looking for a DDoS attack. Modify a network ACL to block identified source IP addresses.

Answer: C

QUESTION 189

A company has a custom application running on an Amazon EC2 instance that:

- Reads a large amount of data from Amazon S3
- Performs a multi-stage analysis
- Writes the results to Amazon DynamoDB

The application writes a significant number of large temporary files during the multi-stage analysis. The process performance depends on the temporary storage performance. What would be the fastest storage option for holding the temporary files?

- A. Multiple Amazon S3 buckets with Transfer Acceleration for storage
- B. Multiple Amazon EBS drives with Provisioned IOPS and EBS optimization
- C. Multiple Amazon EFS volumes using the Network File System version 4.1 (NFSv4.1) protocol.
- D. Multiple instance store volumes with software RAID 0.

Answer: B

QUESTION 190

A solution architect must migrate a Windows Internet Information Services (IIS) web application to AWS. The application currently relies on a file share hosted in the user's on-premises network-attached storage (NAS). The solution architect has proposed migrating the IIS web servers. Which replacement to the on-premises file share is MOST resilient and durable?

- A. Migrate the file share to Amazon RDS.
- B. Migrate the file share to AWS Storage Gateway.
- C. Migrate the file share to Amazon FSx for Windows File Server.
- D. Migrate the file share to Amazon Elastic File System (Amazon EFS).

Answer: A

QUESTION 191

An application running on an Amazon EC2 instance in VPC-A needs to access files in another EC2 instance in VPC-B. Both are in separate AWS accounts. The network administrator needs to design a solution to enable secure access to the EC2 instance in VPC-B from VPC-A.

- A. The connectivity should not have a single point of failure or bandwidth concerns. Which solution will meet these requirements?

- B. Set up a VPC peering connection between VPC-A and VPC-B.
- C. Set up VPC gateway endpoints for the EC2 instance running in VPC-B.
- D. Attach a virtual private gateway to VPC-B and enable routing from VPC-A.
- E. Create a private virtual interface (VIF) for the EC2 instance running in VPC-B and add appropriate routes from VPC-B.

Answer: D

QUESTION 192

A company is seeing access requests by some suspicious IP addresses. The security team discovers the requests are from different IP addresses under the same CIDR range. What should a solutions architect recommend to the team?

- A. Add a rule in the inbound table of the security to deny the traffic from that CIDR range.
- B. Add a rule in the outbound table of the security group to deny the traffic from that CIDR range.
- C. Add a deny rule in the inbound table of the network ACL with a lower number than other rules.
- D. Add a deny rule in the outbound table of the network ACL with a lower rule number than other rules.

Answer: C

QUESTION 193

A company is using a VPC peering strategy to connect its VPCs in a single Region to allow for cross-communication. A recent increase in account creations and VPCs has made it difficult to maintain the VPC peering strategy, and the company expects to grow to hundreds of VPCs. There are also new requests to create site-to-site VPNs with some of the VPCs. A solutions architect has been tasked with creating a centrally networking setup for multiple accounts, VPNS, and VPNs.

Which networking solution meets these requirements?

- A. Configure shared VPCs and VPNs and share to each other
- B. Configure a hub-and-spoke and route all traffic through VPC peering.
- C. Configure an AWS Direct Connect between all VPCs and VPNs.
- D. Configure a transit gateway with AWS Transit Gateway and connected all VPCs and VPNs.

Answer: B

QUESTION 194

A monolithic application was recently migrated to AWS and is now running on a single Amazon EC2 instance. Due to application limitations, it is not possible to use automatic scaling to scale out the application. The chief technology officer (CTO) wants an automated solution to restore the EC2 instance in the unlikely event the underlying hardware fails.

What would allow for automatic recovery of the EC2 instance as quickly as possible?

- A. Configure an Amazon CloudWatch alarm that triggers the recovery of the EC2 instance if it becomes impaired.
- B. Configure an Amazon CloudWatch alarm to trigger an SNS message that alerts the CTO when the EC2 instance is impaired.
- C. Configure AWS CloudTrail to monitor the health of the EC2 instance, and if it becomes impaired, triggered instance recovery.
- D. Configure an Amazon EventBridge event to trigger an AWS Lambda function once an hour that checks the health of the EC2 instance and triggers instance recovery if the EC2 instance is unhealthy.

Answer: B

QUESTION 195

A company has created a VPC with multiple private subnets in multiple Availability Zones (AZs) and one public subnet in one of the AZs. The public subnet is used to launch a NAT gateway. There are instance in the private subnet that

use a NAT gateway to connect to the internet. In case is used of an AZ failure, the company wants to ensure that the instance are not all experiencing internet connectivity issues and that there is a backup plan ready. Which solution should a solutions architect recommend that is MOST highly available?

- A. Create a new public subnet with a NAT gateway in the same AZ Distribute the traffic between the two NAT gateways
- B. Create an Amazon EC2 NAT instance in a now public subnet Distribute the traffic between the NAT gateway and the NAT instance
- C. Create public subnets In each fZ and launch a NAT gateway in each subnet Configure the traffic from the private subnets In each A2 to the respective NAT gateway
- D. Create an Amazon EC2 NAT instance in the same public subnet Replace the NAT gateway with the NAT instance and associate the instance with an Auto Scaling group with an appropriate scaling policy.

Answer: A

QUESTION 196

A company has multiple AWS accounts, for various departments. One of the departments wants to share an Amazon S3 bucket with all other department.

Which solution will require the LEAST amount of effort-?

- A. Enable cross-account S3 replication for the bucket
- B. Create a pre signed URL for the bucket and share it with other departments
- C. Set the S3 bucket policy to allow cross-account access to other departments
- D. Create 1AM users for each of the departments and configure a read-only IAM policy

Answer: C

QUESTION 197

A company collects temperature, humidity, and atmospheric pressure data in cities across multiple continents. The average volume of data collected per site each day is 500 GB. Each site has a high-speed internet connection. The company's weather forecasting applications are based in a single Region and analyze the data daily.

What is the FASTEST way to aggregate data for all of these global sites?

- A. Enable Amazon S3 Transfer Acceleration on the destination bucket. Use multipart uploads to directly upload site data to the destination bucket.
- B. Upload site data to an Amazon S3 bucket in the closest AWS Region. Use S3 cross-Region replication to copy objects to the destination bucket.
- C. Upload site data to an Amazon S3 bucket in the closest AWS Region. Use S3 cross-Region replication to copy objects to the destination bucket.
- D. Upload the data to an Amazon EC2 instance in the closes Region. Store the data in an Amazon EBS volume. One a day take an EBS snapshot and copy it to the centralize Region. Restore the EBS volume in the centralized Region and run an analysis on the data daily.

Answer: D