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Vendor: Amazon

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

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QUESTION 1

A company is designing a new web service that will run on Amazon EC2 instances behind an Elastic Load Balancer. However many of the web service clients can only reach IP addresses whitelisted on their firewalls. What should a solutions architect recommend to meet the clients' needs?

- A. A Network Load Balancer with an associated Elastic IP address
- B. An Application Load Balancer with an associated Elastic IP address.
- C. An A record in an Amazon Route 53 hosted zone pointing to an Elastic IP address
- D. An EC2 instance with a public IP address running as a proxy in front of the load balancer.

Correct Answer: A

QUESTION 2

A manufacturing company has machine sensors that upload csv files to an Amazon S3 bucket. These csv files must be converted into images and must be made available as soon as possible for the automatic generation of graphical reports. The images become irrelevant after 1 month, but the csv files must be kept to train machine learning (ML) models twice a year. The ML trainings and audits are planned weeks in advance. Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO)

- A. Launch an Amazon EC2 Spot Instance that downloads the .csv files every hour, generates the image files, and uploads the images to the S3 bucket.
- B. Design an AWS Lambda function that converts the .csv files into images and stores the images in the S3 bucket. Invoke the Lambda function when a csv file is uploaded.
- C. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the csv files from S3 Standard to S3 Glacier 1 day after they are uploaded. Expire the image files after 30 days.
- D. Create S3 Lifecycle rules for csv files and image files in the S3 bucket. Transition the csv files from S3 Standard to S3 One Zone-Infrequent Access (S3 One Zone-IA) 1 day after they are uploaded. Expire the image files after 30 days
- E. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the csv files from S3 Standard to S3 Standard-Infrequent Access (S3 Standard-IA) 1 day after they are uploaded. Keep the image files in Reduced Redundancy Storage (RRS).

Correct Answer: BD

QUESTION 3

A company operates a website on Amazon EC2 Linux instances. Some of the instances are failing. Troubleshooting points to insufficient swap space on the failed instances. The operations team lead needs a solution to monitor this. What should a solutions architect recommend?

- A. Configure an Amazon CloudWatch SwapUsage metric dimension. Monitor the SwapUsage dimension in the EC2 metrics in CloudWatch.
- B. Use EC2 metadata to collect information, then publish it to Amazon CloudWatch custom metrics. Monitor SwapUsage metrics in CloudWatch.
- C. Install an Amazon CloudWatch agent on the instances. Run an appropriate script on a set schedule. Monitor SwapUtilization metrics in CloudWatch.
- D. Enable detailed monitoring in the EC2 console. Create an Amazon CloudWatch SwapUtilization custom metric. Monitor SwapUtilization metrics in CloudWatch.

Correct Answer: A

QUESTION 4

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A company captures ordered clickstream data from multiple websites and uses batch processing to analyze the data. The company receives 100 million event records, all approximately 1 KB in size, each day. The company loads the data into Amazon Redshift each night, and business analysts consume the data. The company wants to move toward near-real-time data processing for timely insights. The solution should process the streaming data while requiring the least possible operational overhead. Which combination of AWS services will meet these requirements MOST cost-effectively? (Select TWO.)

- A. Amazon EC2
- B. AWS Batch
- C. Amazon Simple Queue Service (Amazon SQS)
- D. Amazon Kinesis Data Firehose
- E. Amazon Kinesis Data Analytics

Correct Answer: DE

Explanation:

https://d1.awsstatic.com/Products/product-name/diagrams/product-page-diagram_Amazon-Kinesis_Evolve-from-batch-to-real-time-Analytics.d7ed76be304a30be5720fd159469f157e7c09ede.png

"Kinesis Data Firehose is the easiest way to load streaming data into data stores and analytics tools. It captures, transforms, and loads streaming data and you can deliver the data to "destinations" including Amazon S3 buckets for later analysis." "Amazon Kinesis Data Analytics is the easiest way to process and analyze real-time, streaming data. Kinesis Data Analytics can use standard SQL queries to process Kinesis data streams and can ingest data from Kinesis Streams and Kinesis Firehose."

QUESTION 5

A company processes large amounts of data. The output data is stored in Amazon S3 Standard storage in an S3 bucket, where it is analyzed for 1 month. The data must remain immediately accessible after the 1-month analysis period. Which storage solution meets these requirements MOST cost-effectively?

- A. Configure an S3 Lifecycle policy to transition the objects to S3 Glacier after 30 days.
- B. Configure S3 Intelligent-Tiering to transition the objects to S3 Glacier after 30 days.
- C. Configure an S3 Lifecycle policy to transition the objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.
- D. Configure an S3 Lifecycle policy to delete the objects after 30 days. Enable versioning on the S3 bucket so that deleted objects can still be immediately restored as needed.

Correct Answer: B

QUESTION 6

A computer is reviewing a recent migration of a three-tier application to a VPC. The security team discover that the principle of least privilege is not being applied to Amazon EC2 security group ingress and egress rules between the application tiers. What should a solution architect do to connect issue?

- A. Create security group rules using the instance ID as the source destination.
- B. Create security group rules using the security ID as the source or destination.
- C. Create security group rules using the VPC CDR blocks as the source or destination.
- D. Create security group rules using the subnet CDR blocks as the source or destination.

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Correct Answer: C

Explanation:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/security-group-rules.html>

QUESTION 7

A company is designing a new application that runs in a VPC on Amazon EC2 instances. The application stores data in Amazon S3 and uses Amazon DynamoDB as its database. For compliance reasons, the company prohibits all traffic between the EC2 instances and other AWS services from passing over the public internet. What can a solutions architect do to meet this requirement?

- A. Configure gateway VPC endpoints to Amazon S3 and DynamoDB.
- B. Configure interface VPC endpoints to Amazon S3 and DynamoDB.
- C. Configure a gateway VPC endpoint to Amazon S3. Configure an interface VPC endpoint to DynamoDB.
- D. Configure a gateway VPC endpoint to DynamoDB. Configure an interface VPC endpoint to Amazon S3.

Correct Answer: A

QUESTION 8

An Amazon EC2 administrator created the following policy associated with an IAM group containing several users. What is the effect of this policy?

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "ec2:TerminateInstances",
      "Resource": "*",
      "Condition": {
        "IpAddress": {
          "aws:SourceIp": "10.100.100.0/24"
        }
      }
    },
    {
      "Effect": "Deny",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "StringNotEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    }
  ]
}
```

- A. Users can terminate an EC2 instance in any AWS Region except us-east-1.
- B. Users can terminate an EC2 instance with the IP address 10.100.100.1 in the us-east-1 Region.
- C. Users can terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254.
- D. Users cannot terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254.

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Correct Answer: A

QUESTION 9

A company is launching a new application that will be hosted on Amazon EC2 instances. A solutions architect needs to design a solution that does not allow public IPv4 access that originates from the internet. However, the solution must allow the EC2 instances to make outbound IPv4 internet requests. The initial design proposal shows that the EC2 instances would be located in two private subnets across two Availability Zones. The entire architecture must be highly available. How should the solutions architect change the architecture to meet these requirements?

- A. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.
- B. Deploy an internet gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- C. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- D. Deploy an egress-only internet gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.

Correct Answer: C

QUESTION 10

A solutions architect is redesigning a monolithic application to be a loosely coupled application composed of two microservices: Microservice A and Microservice B. Microservice A places messages in a main Amazon Simple Queue Service (Amazon SQS) queue for Microservice B to consume. When Microservice B fails to process a message after four retries, the message needs to be removed from the queue and stored for further investigation. What should the solutions architect do to meet these requirements?

- A. Create an SQS dead-letter queue. Microservice B adds failed messages to that queue after it receives and fails to process the message four times.
- B. Create an SQS dead-letter queue. Configure the main SQS queue to deliver messages to the dead-letter queue after the message has been received four times.
- C. Create an SQS queue for failed messages. Microservice A adds failed messages to that queue after Microservice B receives and fails to process the message four times.
- D. Create an SQS queue for failed messages. Configure the SQS queue for failed messages to pull messages from the main SQS queue after the original message has been received four times.

Correct Answer: B

Explanation:

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-dead-letter-queues.html#sqs-dead-letter-queues-how-they-work>

QUESTION 11

A company has three VPCs named Development, Testing and Production in the us-east-1 Region. The three VPCs need to be connected to an on-premises data center and are designed

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