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- permissions to allow the web servers to access AWS Secrets Manager.
- B. Store the database user credentials in AWS Systems Manager OpsCenter. Grant the necessary IAM permissions to allow the web servers to access OpsCenter.
  - C. Store the database user credentials in a secure Amazon S3 bucket. Grant the necessary IAM permissions to allow the web servers to retrieve credentials and access the database.
  - D. Store the database user credentials in files encrypted with AWS Key Management Service (AWS KMS) on the web server file system. The web server should be able to decrypt the files and access the database.

**Correct Answer: A**

### **QUESTION 336**

A company has an API-based inventory reporting application running on Amazon EC2 instances. The application stores information in an Amazon DynamoDB table. The company's distribution centers have an on-premises shipping application that calls an API to update the inventory before printing shipping labels. The company has been experiencing application interruptions several times each day. Resulting in lost transactions. What should a solutions architect recommend to improve application resiliency?

- A. Modify the shipping application to write to a local database
- B. Modify the application APIs to run serverless using AWS Lambda
- C. Configure Amazon API Gateway to call the EC2 inventory application APIs
- D. Modify the application to send inventory updates using Amazon Simple Queue Service (Amazon SQS)

**Correct Answer: B**

### **QUESTION 337**

A solution architect has configured the following IAM policy. Which action will be allowed by the policy?

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "lambda:*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Deny",
      "Action": [
        "lambda:CreateFunction",
        "lambda:DeleteFunction"
      ],
      "Resource": "*",
      "Condition": {
        "IpAddress": {
          "aws:SourceIp": "220.100.16.0/20"
        }
      }
    }
  ]
}
```

- A. An AWS Lambda function can be deleted from any network.
- B. An AWS Lambda function can be created from any network.

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- C. An AWS Lambda function can be deleted from the 100.220.0.0/20 network.
- D. An AWS Lambda function can be deleted from the 220.100.16.0/20 network.

**Correct Answer: C**

### **QUESTION 338**

A company is testing an application that runs on an Amazon EC2 Linux instance. The instance contains a data volume of 500 GB that consists of a single Amazon Elastic Block Store (Amazon EBS) General Purpose SSD (gp2) volume. The application is now ready for production use and will be installed on multiple EC2 instances that run in an Auto Scaling group. All instances need access to the data that was stored on the 500 GB volume. The company needs a highly available and fault-tolerant solution that does not introduce any significant changes to the applications code. Which solution meets these requirements?

- A. Provision an EC2 instance with NFS server software that is configured with a single 500 GB gp2 volume
- B. Use an Amazon FSx for Windows File Server file system that is configured as an SMB file store within a single Availability Zone
- C. Migrate the data into an Amazon S3 bucket Use an EC2 instance profile to access the contents of the bucket
- D. Use an Amazon Elastic File System (Amazon EFS) file system that is configured with the General Purpose performance mode

**Correct Answer: A**

### **QUESTION 339**

A company runs an internal browser-based application. The application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. The Auto Scaling group scales up to 20 instances during work hours but scales down to 2 instances overnight Staff are complaining that the application is very slow when the day begins although it runs well by mid-morning. How should the scaling be changed to address the staff complaints and keep costs to a minimum?

- A. Implement a scheduled action that sets the desired capacity to 20 shortly before the office opens.
- B. Implement a step scaling action triggered at a lower CPU threshold, and decrease the cooldown period.
- C. Implement a target tracking action triggered at a lower CPU threshold, and decrease the cooldown period.
- D. Implement a scheduled action that sets the minimum and maximum capacity to 20 shortly before the office opens.

**Correct Answer: A**

### **QUESTION 340**

A company is designing a new multi-tier web application that consists of the following components:

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- Web and application servers that run on Amazon EC2 instances as part of Auto Scaling groups
- An Amazon RDS DB instance for data storage

A solutions architect needs to limit access to the application servers so that only the web servers can access them. Which solution will meet these requirements?

- A. Deploy AWS PrivateLink in front of the application servers. Configure the network ACL to allow only the web servers to access the application servers.
- B. Deploy a VPC endpoint in front of the application servers. Configure the security group to allow only the web servers to access the application servers.
- C. Deploy a Network Load Balancer with a target group that contains the application servers' Auto Scaling group. Configure the network ACL to allow only the web servers to access the application servers.
- D. Deploy an Application Load Balancer with a target group that contains the application servers' Auto Scaling group. Configure the security group to allow only the web servers to access the application servers.

**Correct Answer: C**

### **QUESTION 341**

A company uses an Amazon S3 bucket as its data lake storage platform. The S3 bucket contains a massive amount of data that is accessed randomly by multiple teams and hundreds of applications. The company wants to reduce the S3 storage costs and provide immediate availability for frequently accessed objects. What is the MOST operationally efficient solution that meets these requirements?

- A. Create an S3 Lifecycle rule to transition objects to the S3 Intelligent-Tiering storage class.
- B. Store objects in Amazon S3 Glacier. Use S3 Select to provide applications with access to the data.
- C. Use data from S3 storage class analysis to create S3 Lifecycle rules to automatically transition objects to the S3 Standard-Infrequent Access (S3 Standard-IA) storage class.
- D. Transition objects to the S3 Standard-Infrequent Access (S3 Standard-IA) storage class. Create an AWS Lambda function to transition objects to the S3 Standard storage class when they are accessed by an application.

**Correct Answer: C**

### **QUESTION 342**

A company hosts a three-tier web application that includes a PostgreSQL database. The database stores the metadata from documents. The company searches the metadata for key terms to retrieve documents that the company reviews in a report each month. The documents are stored in Amazon S3. The documents are usually written only once, but they are updated frequently. The reporting process takes a few hours with the use of relational queries. The reporting process must not affect any document modifications or the addition of new documents. What are the MOST operationally efficient solutions that meet these requirements? (Select TWO )

- A. Set up a new Amazon DocumentDB (with MongoDB compatibility) cluster that includes a read replica. Scale the read replica to generate the reports.
- B. Set up a new Amazon RDS for PostgreSQL Reserved Instance and an On-Demand read replica. Scale the read replica to generate the reports.
- C. Set up a new Amazon Aurora PostgreSQL DB cluster that includes a Reserved Instance and an Aurora Replica. Issue queries to the Aurora Replica to generate the reports.

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- D. Set up a new Amazon RDS for PostgreSQL Multi-AZ Reserved Instance. Configure the reporting module to query the secondary RDS node so that the reporting module does not affect the primary node.
- E. Set up a new Amazon DynamoDB table to store the documents. Use a fixed write capacity to support new document entries. Automatically scale the read capacity to support the reports.

**Correct Answer:** BC

### **QUESTION 343**

A company uses GPS trackers to document the migration patterns of thousands of sea turtles. The trackers check every 5 minutes to see if a turtle has moved more than 100 yards (91.4 meters). If a turtle has moved its tracker sends the new coordinates to a web application running on three Amazon EC2 instances that are in multiple Availability Zones in one AWS Region. Recently, the web application was overwhelmed while processing an unexpected volume of tracker data. Data was lost with no way to replay the events. A solutions architect must prevent this problem from happening again and needs a solution with the least operational overhead. What should the solutions architect do to meet these requirements?

- A. Create an Amazon S3 bucket to store the data. Configure the application to scan for new data in the bucket for processing.
- B. Create an Amazon API Gateway endpoint to handle transmitted location coordinates. Use an AWS Lambda function to process each item concurrently.
- C. Create an Amazon Simple Queue Service (Amazon SQS) queue to store the incoming data. Configure the application to poll for new messages for processing.
- D. Create an Amazon DynamoDB table to store transmitted location coordinates. Configure the application to query the table for new data for processing. Use TTL to remove data that has been processed.

**Correct Answer:** C

### **QUESTION 344**

A company's security policy requires that all AWS API activity in its AWS accounts be recorded for periodic auditing. The company needs to ensure that AWS CloudTrail is enabled on all of its current and future AWS accounts using AWS Organizations. Which solution is MOST secure?

- A. At the organization's root, define and attach a service control policy (SCP) that permits enabling CloudTrail only.
- B. Create IAM groups in the organization's management account as needed. Define and attach an IAM policy to the groups that prevents users from disabling CloudTrail.
- C. Organize accounts into organizational units (OUs). At the organization's root, define and attach a service control policy (SCP) that prevents users from disabling CloudTrail.
- D. Add all existing accounts under the organization's root. Define and attach a service control policy (SCP) to every account that prevents users from disabling CloudTrail.

**Correct Answer:** D

### **QUESTION 345**

A company recently launched a new service that involves medical images. The company scans the images and sends them from its on-premises data center through an AWS Direct Connect connection to Amazon EC2 instances. After processing is complete, the images are stored in an Amazon S3 bucket. A company requirement states that the EC2 instances cannot be accessible through the internet. The EC2 instances run in a private subnet, which has a default route back to the on-premises data center for outbound internet access. Usage of the new service is increasing rapidly. A solutions architect must recommend a solution that meets the company's requirements

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and reduces the Direct Connect charges. Which solution accomplishes these goals MOST cost-effectively?

- A. Configure a VPC endpoint for Amazon S3. Add an entry to the private subnet's route table for the S3 endpoint.
- B. Configure a NAT gateway in a public subnet. Configure the private subnet's route table to use the NAT gateway.
- C. Configure Amazon S3 as a file system mount point on the EC2 instances Access Amazon S3 through the mount.
- D. Move the EC2 instances into a public subnet. Configure the public subnet route table to point to an internet gateway.

**Correct Answer: B**

### **QUESTION 346**

A three-tier web application processes orders from customers. The web tier consists of Amazon EC2 instances behind an Application Load Balancer, a middle tier of three EC2 instances decoupled from the web tier using Amazon SQS, and an Amazon DynamoDB backend. At peak times customers who submit orders using the site have to wait much longer than normal to receive confirmations due to lengthy processing times. A solutions architect needs to reduce these processing times. Which action will be MOST effective in accomplishing this?

- A. Replace the SQS queue with Amazon Kinesis Data Firehose
- B. Use Amazon ElastiCache for Redis in front of the DynamoDB backend tier
- C. Add an Amazon CloudFront distribution to cache the responses for the web tier.
- D. Use Amazon EC2 Auto Scaling to scale out the middle tier instances based on the SQS queue depth

**Correct Answer: C**

### **QUESTION 347**

A company wants to deploy a new public web application on AWS. The application includes a web server tier that uses Amazon EC2 instances. The application also includes a database tier that uses an Amazon RDS for MySQL DB instance. The application must be secure and accessible for global customers that have dynamic IP addresses. How should a solutions architect configure the security groups to meet these requirements'?

- A. Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.
- B. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.
- C. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the IP addresses of the customers.
- D. Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from 0.0.0.0/0.

**Correct Answer: A**