QUESTION 219
A solution architect is designing a hybrid application using the AWS cloud.
The network between the on- premises data center and AWS will use an AWS Direct Connect (DX) connection.
The application connectivity between AWS and the on-premises data center must be highly resilient.
Which DX configuration should be implemented to meet these requirements?

A. Configure a DX connection with a VPN on top of it.
B. Configure DX connections at multiple DX locations.
C. Configure a DX connection using the most reliable DX partner.
D. Configure multiple virtual interfaces on top of a DX connection.

Answer: B

QUESTION 220
A company plans to store sensitive user data on Amazon S3.
Internal security compliance requirement mandata encryption of data before sending it to Amazon S3.
What should a solution architect recommend to satisfy these requirements?

A. Server-side encryption with customer-provided encryption keys
B. Client-side encryption with Amazon S3 managed encryption keys
C. Server-side encryption with keys stored in AWS key Management Service (AWS KMS)
D. Client-side encryption with a master key stored in AWS Key Management Service (AWS KMS)

Answer: A

QUESTION 221
A company is using Amazon EC2 to run its big data analytics workloads.
These variable workloads run each night, and it is critical they finish by the start of business the following day.
A solutions architect has been tasked with designing the MOST cost-effective solution.
Which solution will accomplish this?

A. Spot Fleet
B. Spot Instances
C. Reserved Instances
D. On-Demand Instances

Answer: C

QUESTION 222

A company mandates that an Amazon S3 gateway endpoint must allow traffic to trusted buckets only.
Which method should a solutions architect implement to meet this requirement?

A. Create a bucket policy for each of the company's trusted S3 buckets that allows traffic only from the company's trusted VPCs
B. Create a bucket policy for each of the company's trusted S3 buckets that allows traffic only from the company's S3 gateway endpoint IDs
C. Create an S3 endpoint policy for each of the company's S3 gateway endpoints that blocks access from any VPC other than the company's trusted VPCs
D. Create an S3 endpoint policy for each of the company's S3 gateway endpoints that provides access to the Amazon Resource Name (ARN) of the trusted S3 buckets

Answer: D

QUESTION 223
A company is designing a web application using AWS that processes insurance quotes Users will request quotes from the application.
Quotes must be separated by quote type must be responded to within 24 hours, and must not be lost.
The solution should be simple to set up and maintain.
Which solution meets these requirements?

A. Create multiple Amazon Kinesis data streams based on the quote type.
   Configure the web application to send messages to the proper data stream.
   Configure each backend group of application servers to pool messages from its own data stream using the Kinesis Client Library (KCL)
B. Create multiple Amazon Simple Notification Service (Amazon SNS) topics and register Amazon SQS queues to their own SNS topic based on the quote type.
   Configure the web application to publish messages to the SNS topic queue.
   Configure each backend application server to work its own SQS queue
C. Create a single Amazon Simple Notification Service (Amazon SNS) topic and subscribe the Amazon SQS queues to the SNS topic.
   Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type.
   Configure each backend application server to work its own SQS queue.
D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon Elasticsearch Service (Amazon ES) cluster.
   Configure the web application to send messages to the proper delivery stream.
   Configure each backend group of application servers to search for the messages from Amazon ES and process them accordingly

Answer: D

QUESTION 224
A company is running a highly sensitive application on Amazon EC2 backed by an Amazon RDS database Compliance regulations mandate that all personally identifiable information (PII) be encrypted at rest.
Which solution should a solutions architect recommend to meet this requirement with the LEAST amount of changes to the infrastructure''

A. Deploy AWS Certificate Manager to generate certificates.
   Use the certificates to encrypt the database volume
B. Deploy AWS CloudHSM. generate encryption keys, and use the customer master key (CMK) to encrypt database volumes.
C. Configure SSL encryption using AWS Key Management Service customer master keys (AWS KMS CMKs) to encrypt database volumes
D. Configure Amazon Elastic Block Store (Amazon EBS) encryption and Amazon RDS encryption with AWS Key Management Service (AWS KMS) keys to encrypt instance and database

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volumes.

Answer: D

QUESTION 225
A company is creating an architecture for a mobile app that requires minimal latency for its users.
The company's architecture consists of Amazon EC2 instances behind an Application Load Balancer running in an Auto Scaling group.
The EC2 instances connect to Amazon RDS. Application beta testing showed there was a slowdown when reading the data However the metrics indicate that the EC2 instances do not cross any CPU utilization thresholds
How can this issue be addressed1?

A. Reduce the threshold for CPU utilization in the Auto Scaling group
B. Replace the Application Load Balancer with a Network Load Balancer.
C. Add read replicas for the RDS instances and direct read traffic to the replica.
D. Add Multi-AZ support to the RDS instances and direct read traffic to the new EC2 instance.

Answer: C

QUESTION 226
A company recently released a new type of internet-connected sensor.
The company is expecting lo sell thousands of sensors, which are designed to stream high volumes of data each second to a central location.
A solutions architect must design a solution that ingests and stores data so that engineering teams can analyze it in near-real time with millisecond responsiveness.
Which solution should the solutions architect recommend?

A. Use an Amazon SQS queue to ingest the data.
   Consume the data with an AWS Lambda function, which then stores the data in Amazon Redshift.
B. Use an Amazon SOS queue to ingest the data.
   Consume the data with an AWS Lambda function, which then stores the data in Amazon DynamoDB.
C. Use Amazon Kinesis Data Streams to ingest the data.
   Consume the data with an AWS Lambda function, which then stores the data in Amazon Redshift.
D. Use Amazon Kinesis Data Streams to ingest the data.
   Consume the data with an AWS Lambda function, which then stores the data in Amazon DynamoDB.

Answer: A

QUESTION 227
A company is migrating a NoSQL database cluster to Amazon EC2.
The database automatically replicates data to maintain at least three copies of the data. I/O throughput of the servers is the highest priority.
Which instance type should a solutions architect recommend for the migration?

A. Storage optimized instances with instance store
B. Burstable general purpose instances with an Amazon Elastic Block Store (Amazon EBS) volume
C. Memory optimized instances with Amazon Elastic Block Store (Amazon EBS) optimization enabled
D. Compute optimized instances with Amazon Elastic Block Store (Amazon EBS) optimization enabled

Answer: A

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QUESTION 228
A company operates a website on Amazon EC2 Linux instances.
Some of the instances are faring 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 SwapUtilizalion metrics in CloudWatch.
D. Enable detailed monitoring in the EC2 console.
    Create an Amazon CloudWatch SwapUtilizalion custom metric.
    Monitor SwapUtilization metrics in CloudWatch.

Answer: A

QUESTION 229
A company has two applications it wants to migrate to AWS.
Both applications process a large set of files by accessing the same files at the same time.
Both applications need to read the files with low latency.
Which architecture should a solutions architect recommend for this situation?

A. Configure two AWS Lambda functions to run the applications.
    Create an Amazon EC2 instance with an instance store volume to store the data.
B. Configure two AWS Lambda functions to run the applications.
    Create an Amazon EC2 instance with an Amazon Elastic Block Store (Amazon EBS) volume to
    store the data.
C. Configure one memory optimized Amazon EC2 instance to run both applications simultaneously.
    Create an Amazon Elastic Block Store (Amazon EBS) volume with Provisioned IOPS to store the
    data.
D. Configure two Amazon EC2 instances to run both applications.
    Configure Amazon Elastic File System (Amazon EFS) with General Purpose performance mode
    and Bursting.
    Throughput mode to store the data.

Answer: D