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QUESTION 1

You have recently joined a startup company building sensors to measure street noise and air quality in urban areas. The company has been running a pilot deployment of around 100 sensors for 3 months each sensor uploads 1KB of sensor data every minute to a backend hosted on AWS. During the pilot, you measured a peak of 10 IOPS on the database, and you stored an average of 3GB of sensor data per month in the database. The current deployment consists of a load-balanced auto scaled Ingestion layer using EC2 instances and a PostgreSQL RDS database with 500GB standard storage. The pilot is considered a success and your CEO has managed to get the attention of some potential investors. The business plan requires a deployment of at least 100K sensors which needs to be supported by the backend. You also need to store sensor data for at least two years to be able to compare year over year improvements. To secure funding, you have to make sure that the platform meets these requirements and leaves room for further scaling. Which setup will meet the requirements?

- A. Add an SQS queue to the ingestion layer to buffer writes to the RDS instance
- B. Ingest data into a DynamoDB table and move old data to a Redshift cluster
- C. Replace the RDS instance with a 6 node Redshift cluster with 96TB of storage
- D. Keep the current architecture but upgrade RDS storage to 3TB and 10K provisioned IOPS

Correct Answer: C

You cannot go with DynamoDB because the application is currently using a PostgreSQL which is an RDS. Replacing an RDS SQL with a noSQL DB, for the sake of scaling is not a sensible option.

QUESTION 2

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

Correct Answer: C

QUESTION 3

A company is moving to AWS. Management has identified a set of approved AWS services that meet all deployment requirements. The company would like to restrict access to all other unapproved services to which employees would have access.

Which solution meets these requirements with the LEAST amount of operational overhead?



- A. Configure the AWS Trusted Advisor service utilization compliance report. Subscribe to Amazon SNS notifications from Trusted Advisor. Create a custom AWS Lambda function that can automatically remediate the use of unauthorized services.
- B. Use AWS Config to evaluate the configuration settings of AWS resources. Subscribe to Amazon SNS notifications from AWS Config. Create a custom AWS Lambda function that can automatically remediate the use of unauthorized services.
- C. Configure AWS Organizations. Create an organizational unit (OU) and place all AWS accounts into the OU. Apply a service control policy (SCP) to the OU that denies the use of certain services.
- D. Create a custom AWS IAM policy. Deploy the policy to each account using AWS CloudFormation StackSets. Include deny statements in the policy to restrict the use of certain services. Attach the policies to all IAM users in each account.

Correct Answer: C

QUESTION 4

A Solutions Architect is asked to improve the fault tolerance of an existing Python application. The web application places 1-MB images in an S3 bucket. The application then uses a single t2.large instance to transform the image to include a watermark with the company's brand before writing the image back to the S3 bucket.

What should the Solutions Architect recommend to increase the fault tolerance of the solution?

- A. Convert the code to a Lambda function triggered by scheduled Amazon CloudWatch Events.
- B. Increase the instance size to m4.xlarge and configure Enhanced Networking.
- C. Convert the code to a Lambda function triggered by Amazon S3 events.
- D. Create an Amazon SQS queue to send the images to the t2.large instance.

Correct Answer: C

QUESTION 5

A development team is building an application with front-end and backend application tiers. Each tier consists of Amazon EC2 instances behind an ELB Classic Load Balancer. The instances run in Auto Scaling groups across multiple Availability Zones. The network team has allocated the 10.0.0.0/24 address space for this application. Only the front-end load balancer should be exposed to the Internet. There are concerns about the limited size of the address space and the ability of each tier to scale.

What should the VPC subnet design be in each Availability Zone?

- A. One public subnet for the load balancer tier, one public subnet for the front-end tier, and one private subnet for the backend tier.
- B. One shared public subnet for all tiers of the application.
- C. One public subnet for the load balancer tier and one shared private subnet for the application tiers.



D. One shared private subnet for all tiers of the application.

Correct Answer: A

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