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Amazon

Exam Questions SAP-C01

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QUESTION 1

A company that designs multiplayer online games wants to expand its user base outside of Europe.

The company transfers a significant amount of UDP traffic to Keep all the live and interactive sessions of the games The company has plans for rapid expansion and wants to build its architecture to provide an optimized online experience to its users

Which architecture will meet these requirements with the LOWEST latency for users"

A. Set up a Multi-AZ environment in a single AWS Region Use Amazon CloudFront to cache user sessions

B. Set up environments in multiple AWS Regions Create an accelerator in AWS Global Accelerator, and add endpoints from different Regions to it

C. Set up environments in multiple AWS Regions Use Amazon Route 53. and select latency-based routing

D. Set up a Multi-AZ environment in a single AWS Region. Use AWS Lambda@Edge to update sessions closer to the users

Correct Answer: B

QUESTION 2

A company is using multiple AWS accounts The DNS records are stored in a private hosted zone for

Amazon Route 53 in Account A The company's applications and databases are running in Account B.

A solutions architect win deploy a two-net application In a new VPC To simplify the configuration, the

db.example com CNAME record set tor the Amazon RDS endpoint was created in a private hosted zone for Amazon Route 53.

During deployment, the application failed to start. Troubleshooting revealed that db.example com is not resolvable on the Amazon EC2 instance The solutions architect confirmed that the record set was created correctly in Route 53.

Which combination of steps should the solutions architect take to resolve this issue? (Select TWO J

A. Deploy the database on a separate EC2 instance in the new VPC Create a record set for the instance's private IP in the private hosted zone

B. Use SSH to connect to the application tier EC2 instance Add an RDS endpoint IP address to the /eto/resolv.conf file

C. Create an authorization lo associate the private hosted zone in Account A with the new VPC In

Account B

D. Create a private hosted zone for the example.com domain m Account B Configure Route 53 replication between AWS accounts

E. Associate a new VPC in Account B with a hosted zone in Account A. Delete the association authorization In Account A.

Correct Answer: B,C

QUESTION 3

A company is migrating applications from on premises to the AWS Cloud. These applications power the company's internal web forms. These web forms collect data for specific events several times each quarter. The web forms use simple SQL statements to save the data to a local relational database.

Data collection occurs for each event, and the on-premises servers are idle most of the time. The company needs to minimize the amount of idle infrastructure that supports the web forms.

Which solution will meet these requirements?

A. Use Amazon EC2 Image Builder to create AMIs for the legacy servers. Use the AMIs to provision

EC2 instances to recreate the applications in the AWSCloud. Place an Application Load Balancer

(ALB) in front of the EC2 instances. Use Amazon Route 53 to point the DNS names of the web forms to the ALB.

B. Create one Amazon DynamoDB table to store data for ail the data input Use the application form name as the table key to

distinguish data items. Create an Amazon Kinesis data stream to receive

the data input and store the input in DynamoDB. Use Amazon Route 53 to point the DNS names of the web forms to the Kinesis data stream's endpoint.

C. Create Docker images for each server of the legacy web form applications. Create an Amazon

Elastic Container Service (Amazon ECS) cluster on AWS Fargate. Place an Application Load Balancer in front of the ECS cluster. Use Fargate task storage to store the web form data.

D. Provision an Amazon Aurora Serverless cluster. Build multiple schemas for each web form's data storage. Use Amazon API Gateway and an AWSLambda function to recreate the data input forms.

Use Amazon Route 53 to point the DNS names of the web forms to their corresponding API Gateway endpoint.

Correct Answer: A

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A scientific company needs to process text and image data during a live, time-critical phase of

a deep space mission. The radar stations upload the data to the source S3 bucket. The data is prefixed by radar station identification number.

The company created a destination S3 bucket in a second account Data must be copied from the source S3 bucket to the destination S3 bucket to meet a compliance objective This replication occurs through the use of an S3 replication rule to cover all objects in the source S3 bucket.

One specific radar station is identified as having the most accurate data Data replication at this radar station must be monitored for completion within 30 minutes after the radar station uploads the objects to the source S3 bucket.

What should a solutions architect do to meet these requirements?

A. Set up an AWS DataSync agent to replicate the prefixed data from the source S3 bucket to the destination S3 bucket. Select to use at available bandwidth on the task, and monitor the task to ensure that it is in the TRANSFERRING status. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to trigger an alert if this status changes

B. In the second account, create another S3 bucket to receive data from the radar station with the most accurate data Set up a new replication rule for this new S3 bucket toseparate the replication from the other radar stations Monitor the maximum replication time to the destination. Create an

Amazon EventBridge (Amazon CloudWatch Events) rule to trigger an alert when the time exceeds the desired threshold

C. Enable Amazon S3 Transfer Acceleration on the source S3 bucket, and configure the radar station with the most accurate data to use the new endpoint Monitor the S3 destination bucket's TotalRequestLatency metric Create an Amazon EventBridge (Amazon CloudWatch Events) rule to trigger an alert if this status changes

D. Create a new S3 replication rule on the source S3 bucket that filters for the keys that use the prefix of the radar station with the most accurate data Enable S3 Replication Time Control (S3

RTC) Monitor the maximum replication time to the destination Create an Amazon EventBridge

(Amazon CloudWatch Events) rule to trigger an alert when the time exceeds the desired threshold

Correct Answer: B

QUESTION 5

A company is running a web application with On-Demand Amazon EC2 instances in Auto Scaling groups that scale dynamically based on custom metnes After extensive testing, the company determines that the m5.2xlarge instance size is optimal for the workload Application data is stored in db.r4.4xlarge Amazon RDS instances that are confirmed to be optimal. The traffic to the web application spikes randomly during the day.

What other cost-optimization methods should the company implement to further reduce costs without impacting the reliability of the application?

A. Double the instance count in the Auto Scaling groups and reduce the instance size to m5.large

- B. Reserve capacity for the RDS database and the minimum number of EC2 instances that are constantly running.
- C. Reduce the RDS instance size to db.r4.xlarge and add five equivalent^ sized read replicas to provide reliability.
- D. Reserve capacity for all EC2 instances and leverage Spot Instance pricing for the RDS database.

Correct Answer: B

QUESTION 6

A fitness tracking company serves users around the world, with its primary markets in North America

and Asi

a. The company needs to design an infrastructure for its read-heavy user authorization application with the following requirements:

- * Be resilient to problems with the application in any Region.
- * Write to a database in a single Region.
- * Read from multiple Regions.
- * Support resiliency across application tiers in each Region.
- * Support the relational database semantics reflected in the application.
- Which combination of steps should a solutions architect take? (Select TWO.)
- A. Use an Amazon Route 53 geoproximity routing policy combined with a multivalue answer routing policy.
- B. Deploy web. application, and MySQL database servers to Amazon EC2 instances in each Region.
- Set up the application so that reads and writes are local to the Region. Create snapshots of the web, application, and database servers and store the snapshots in an Amazon S3 bucket in both Regions. Set up cross-Region replication for the database layer.

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C. Set up web, application, and Amazon RDS for MySQL instances in each Region. Set up the application so that reads are local and writes are partitioned based on the user. Set up a Multi-AZ failover for the web, application, and database servers. Set up cross-Region replication for the database layer.

D. Set up active-active web and application servers in each Region. Deploy an Amazon Aurora global database with clusters in each Region. Set up the application to use the in-Region Aurora database endpoints. Create snapshots of the web and application servers and store them in an

Amazon S3 bucket in both Regions.

Correct Answer: C,D

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