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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q726-Q731):

NEW QUESTION # 726

An ecommerce company is redesigning a web application to run on the AWS Cloud. The application needs to store static website content and must use a Microsoft SQL Server database to store customer data. The company needs to deploy the application in a resilient way across multiple Availability Zones.

Which solution will meet these requirements?

- A. Use an Amazon S3 bucket to store static content. Deploy an Amazon RDS Custom for SQL Server DB instance for the database.
- B. Create an Amazon Elastic Block Store (Amazon EBS) Multi-Attach volume to store static content. Deploy SQL Server on two Amazon EC2 instances in separate Availability Zones.
- C. Create an Amazon Elastic Block Store (Amazon EBS) Multi-Attach volume to store static content. Deploy an Amazon RDS for SQL Server DB instance for the database.
- **D. Use an Amazon S3 bucket to store static content. Create an Amazon RDS for SQL Server Multi-AZ deployment for the database.**

Answer: D

Explanation:

Comprehensive and Detailed 250 to 300 words of Explanation (AWS documentation-based, no links):

To achieve resilience across multiple Availability Zones, the architecture should use services that natively provide Multi-AZ durability and failover with minimal manual intervention. For static website content, Amazon S3 is the natural choice because it stores objects durably and is designed for high availability; it also integrates well with common web delivery patterns. For the database, the requirement is explicitly Microsoft SQL Server and resilience across AZs.

An Amazon RDS for SQL Server Multi-AZ deployment (Option B) is designed to provide high availability by maintaining a standby replica in a different Availability Zone and performing automated failover in certain failure scenarios. This meets the Multi-AZ resiliency requirement while reducing operational overhead compared to self-managed database clustering on EC2.

Option A uses RDS Custom for SQL Server, which is intended for scenarios where you need OS-level and database-level access/customization. That typically increases operational responsibility and is not the simplest "resilient Multi-AZ" answer unless the scenario demands deep customization (it does not here). Options C and D propose using EBS Multi-Attach for static content, which is not a good fit for static website assets and adds complexity; Multi-Attach is limited and does not replace object storage semantics. Option D also adds substantial operational overhead by running and managing SQL Server across EC2 instances in multiple AZs, including patching, backups, and HA configuration.

Therefore, B best meets all requirements: S3 for static object content and RDS for SQL Server Multi-AZ for resilient, managed database high availability across Availability Zones.

NEW QUESTION # 727

[Design High-Performing Architectures]

A solutions architect needs to ensure that API calls to Amazon DynamoDB from Amazon EC2 instances in a VPC do not travel across the internet.

Which combination of steps should the solutions architect take to meet this requirement? (Choose two.)

- **A. Create a security group entry in the endpoint's security group to provide access.**
- B. Create an interface endpoint for Amazon EC2.
- **C. Create a gateway endpoint for DynamoDB.**
- D. Create a route table entry for the endpoint.

- E. Create an elastic network interface for the endpoint in each of the subnets of the VPC.

Answer: A,C

Explanation:

B and E are the correct answers because they allow the solutions architect to ensure that API calls to Amazon DynamoDB from Amazon EC2 instances in a VPC do not travel across the internet. By creating a gateway endpoint for DynamoDB, the solutions architect can enable private connectivity between the VPC and DynamoDB. By creating a security group entry in the endpoint's security group to provide access, the solutions architect can control which EC2 instances can communicate with DynamoDB through the endpoint. Reference:

Gateway Endpoints

Controlling Access to Services with VPC Endpoints

NEW QUESTION # 728

A company is deploying a two-tier web application in a VPC. The web tier is using an Amazon EC2 Auto Scaling group with public subnets that span multiple Availability Zones. The database tier consists of an Amazon RDS for MySQL DB instance in separate private subnets. The web tier requires access to the database to retrieve product information.

The web application is not working as intended. The web application reports that it cannot connect to the database. The database is confirmed to be up and running. All configurations for the network ACLs, security groups, and route tables are still in their default states.

What should a solutions architect recommend to fix the application?

- **A. Add an inbound rule to the security group of the database tier's RDS instance to allow traffic from the web tier's security group.**
- B. Add a route in the VPC route table to allow traffic between the web tier's EC2 instances and the database tier.
- C. Add an explicit rule to the private subnet's network ACL to allow traffic from the web tier's EC2 instances.
- D. Deploy the web tier's EC2 instances and the database tier's RDS instance into two separate VPCs, and configure VPC peering.

Answer: A

Explanation:

Explanation

This answer is correct because it allows the web tier to access the database tier by using security groups as a source, which is a recommended best practice for VPC connectivity. Security groups are stateful and can reference other security groups in the same VPC, which simplifies the configuration and maintenance of the firewall rules. By adding an inbound rule to the database tier's security group, the web tier's EC2 instances can connect to the RDS instance on port 3306, regardless of their IP addresses or subnets.

References:

* Security groups - Amazon Virtual Private Cloud

* Best practices and reference architectures for VPC design

NEW QUESTION # 729

A company has a website hosted on AWS. The website is behind an Application Load Balancer (ALB) that is configured to handle HTTP and HTTPS separately. The company wants to forward all requests to the website so that the requests will use HTTPS.

What should a solutions architect do to meet this requirement?

- A. Replace the ALB with a Network Load Balancer configured to use Server Name Indication (SNI).
- **B. Create a listener rule on the ALB to redirect HTTP traffic to HTTPS.**
- C. Update the ALB's network ACL to accept only HTTPS traffic
- D. Create a rule that replaces the HTTP in the URL with HTTPS.

Answer: B

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/elb-redirect-http-to-https-using-alb/> How can I redirect HTTP requests to HTTPS using an Application Load Balancer? Last updated: 2020-10-30 I want to redirect HTTP requests to HTTPS using Application Load Balancer listener rules. How can I do this?

Resolution Reference:

NEW QUESTION # 730

A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices. Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket. The app retrieves these video clips directly from the S3 bucket. However, the videos are large in their raw format.

Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead.

Which combination of solutions will meet these requirements? (Select TWO.)

- **A. Deploy Amazon CloudFront for content delivery and caching**
- B. Use AWS DataSync to replicate the video files across AWS Regions in other S3 buckets
- C. Deploy an Auto Scaling group of Amazon EC2 Instances to convert the video files to more appropriate formats.
- **D. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats.**
- E. Deploy an Auto Scaling group of Amazon EC2 instances in Local Zones for content delivery and caching

Answer: A,D

Explanation:

Understanding the Requirement: The mobile app captures and uploads raw video clips to S3, but users experience buffering and playback issues due to the large size of these videos.

Analysis of Options:

Amazon CloudFront: A content delivery network (CDN) that can cache and deliver content globally with low latency. It helps reduce buffering by delivering content from edge locations closer to the users.

AWS DataSync: Primarily used for data transfer and replication across AWS Regions, which does not directly address the video size and buffering issue.

Amazon Elastic Transcoder: A media transcoding service that can convert raw video files into formats and resolutions more suitable for streaming, reducing the size and improving playback performance.

EC2 Instances in Local Zones: While this could provide content delivery and caching, it involves more operational overhead compared to using CloudFront.

EC2 Instances for Transcoding: Involves setting up and maintaining infrastructure, leading to higher operational overhead compared to using Elastic Transcoder.

Best Combination of Solutions:

Deploy Amazon CloudFront: This optimizes the performance by caching content at edge locations, reducing latency and buffering for users.

Use Amazon Elastic Transcoder: This reduces the file size and converts videos into formats better suited for streaming on mobile devices.

Reference:

Amazon CloudFront

Amazon Elastic Transcoder

NEW QUESTION # 731

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