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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q415-Q420):

NEW QUESTION # 415

[Design Secure Architectures]

A large media company hosts a web application on AWS. The company wants to start caching confidential media files so that users around the world will have reliable access to the files. The content is stored in Amazon S3 buckets. The company must deliver the content quickly, regardless of where the requests originate geographically.

Which solution will meet these requirements?

- A. Deploy Amazon CloudFront to connect the S3 buckets to CloudFront edge servers.
- B. Use Amazon Simple Queue Service (Amazon SQS) to connect the S3 buckets to the web application.
- C. Deploy AWS Global Accelerator to connect the S3 buckets to the web application.
- D. Use AWS DataSync to connect the S3 buckets to the web application.

Answer: A

Explanation:

CloudFront uses a local cache to provide the response, AWS Global accelerator proxies requests and connects to the application all

the time for the response.

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3.html#private-content-granting-permissions-to-oai>

NEW QUESTION # 416

A solutions architect needs to implement a solution that can handle up to 5,000 messages per second. The solution must publish messages as events to multiple consumers. The messages are up to 500 KB in size. The message consumers need to have the ability to use multiple programming languages to consume the messages with minimal latency. The solution must retain published messages for more than 3 months. The solution must enforce strict ordering of the messages.

- A. Publish messages to an Amazon Simple Notification Service (Amazon SNS) topic. Ensure that consumers use an Amazon Simple Queue Service (Amazon SQS) FIFO queue to subscribe to the topic.
- **B. Publish messages to an Amazon Kinesis Data Streams data stream. Enable enhanced fan-out. Ensure that consumers ingest the data stream by using dedicated throughput.**
- C. Publish messages to an Amazon Simple Notification Service (Amazon SNS) topic. Ensure that consumers use Amazon Data Firehose to subscribe to the topic.
- D. Publish messages to Amazon EventBridge. Allow each consumer to create rules to deliver messages to the consumer's own target.

Answer: B

Explanation:

Amazon Kinesis Data Streams is the best choice for this scenario:

Message throughput: Kinesis Data Streams supports high throughput with enhanced fan-out and dedicated throughput for consumers.

Large message size: Supports message sizes up to 1 MB, meeting the 500 KB requirement.

Message retention: Data streams can retain messages for up to 365 days.

Strict ordering: Guarantees message ordering within shards.

Why Other Options Are Not Ideal:

Option B:

While SQS FIFO supports strict ordering, SNS topics do not. SNS also does not natively support message retention or strict ordering across consumers. Does not meet requirements.

Option C:

EventBridge does not provide strict ordering guarantees or message retention beyond 24 hours. Does not meet requirements.

Option D:

SNS topics with Data Firehose are not designed for use cases requiring strict ordering or long message retention. Does not meet requirements.

AWS References:

Amazon Kinesis Data Streams: AWS Documentation - Kinesis Data Streams

AWS Messaging Services Comparison: AWS Documentation - Messaging Services

NEW QUESTION # 417

A solutions architect is designing the cloud architecture for a new application being deployed on AWS. The process should run in parallel while adding and removing application nodes as needed based on the number of jobs to be processed. The processor application is stateless. The solutions architect must ensure that the application is loosely coupled and the job items are durably stored.

Which design should the solutions architect use?

- A. Create an Amazon SNS topic to send the jobs that need to be processed. Create an Amazon Machine Image (AMI) that consists of the processor application. Create a launch configuration that uses the AMI. Create an Auto Scaling group using the launch configuration. Set the scaling policy for the Auto Scaling group to add and remove nodes based on CPU usage.
- B. Create an Amazon SNS topic to send the jobs that need to be processed. Create an Amazon Machine Image (AMI) that consists of the processor application. Create a launch template that uses the AMI. Create an Auto Scaling group using the launch template. Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of messages published to the SNS topic.
- C. Create an Amazon SQS queue to hold the jobs that need to be processed. Create an Amazon Machine image (AMI) that consists of the processor application. Create a launch configuration that uses the AMI. Create an Auto Scaling group using the launch configuration. Set the scaling policy for the Auto Scaling group to add and remove nodes based on network usage.

- D. Create an Amazon SQS queue to hold the jobs that needs to be processed Create an Amazon Machine image (AMI) that consists of the processor application Create a launch template that uses the AMI Create an Auto Scaling group using the launch template Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue

Answer: D

Explanation:

"Create an Amazon SQS queue to hold the jobs that needs to be processed. Create an Amazon EC2 Auto Scaling group for the compute application. Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue" In this case we need to find a durable and loosely coupled solution for storing jobs. Amazon SQS is ideal for this use case and can be configured to use dynamic scaling based on the number of jobs waiting in the queue.

To configure this scaling you can use the backlog per instance metric with the target value being the acceptable backlog per instance to maintain. You can calculate these numbers as follows: Backlog per instance: To calculate your backlog per instance, start with the ApproximateNumberOfMessages queue attribute to determine the length of the SQS queue

NEW QUESTION # 418

[Design Secure Architectures]

A company is launching a new application that will be hosted on Amazon EC2 instances. A solutions architect needs to design a solution that does not allow public IPv4 access that originates from the internet. However, the solution must allow the EC2 instances to make outbound IPv4 internet requests.

- A. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.
- B. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- C. Deploy an internet gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- D. Deploy an egress-only internet gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.

Answer: B

Explanation:

Why Option C is Correct:

NAT Gateway: Allows private subnets to access the internet for outbound requests while preventing inbound connections.

High Availability: Deploying NAT gateways in both AZs ensures fault tolerance.

Shared Route Table: Simplifies routing configuration for private subnets.

Why Other Options Are Not Ideal:

Option A: Creating separate route tables for each subnet adds unnecessary complexity.

Option B: Internet gateways allow inbound access, violating the requirement to block public IPv4 access.

Option D: Egress-only internet gateways are designed for IPv6, not IPv4.

AWS Reference:

Amazon VPC NAT Gateway: AWS Documentation - NAT Gateway

NEW QUESTION # 419

An online shopping platform is hosted on an Auto Scaling group of Spot EC2 instances and uses Amazon Aurora PostgreSQL as its database. There is a requirement to optimize your database workloads in your cluster where you have to direct the write operations of the production traffic to your high-capacity instances and point the reporting queries sent by your internal staff to the low-capacity instances.

Which is the most suitable configuration for your application as well as your Aurora database cluster to achieve this requirement?

- A. In your application, use the instance endpoint of your Aurora database to handle the incoming production traffic and use the cluster endpoint to handle reporting queries.
- B. Configure your application to use the reader endpoint for both production traffic and reporting queries, which will enable your Aurora database to automatically perform load-balancing among all the Aurora Replicas.
- C. Create a custom endpoint in Aurora based on the specified criteria for the production traffic and another custom endpoint to handle the reporting queries.
- D. Do nothing since by default, Aurora will automatically direct the production traffic to your high- capacity instances and the

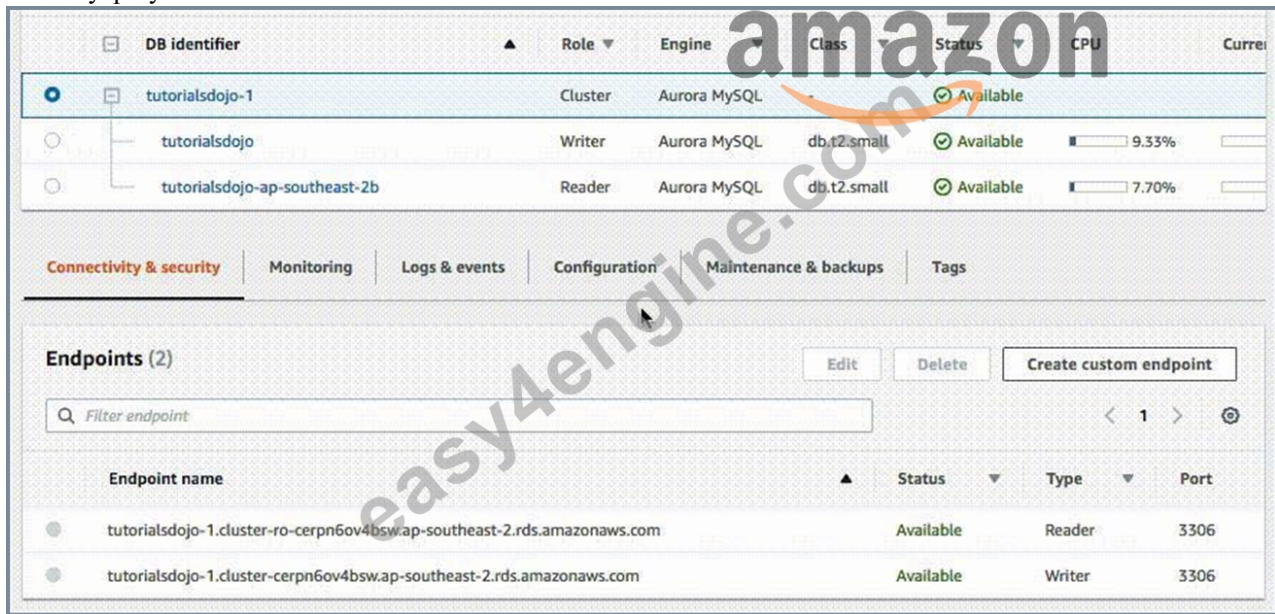
reporting queries to your low-capacity instances.

Answer: C

Explanation:

Amazon Aurora typically involves a cluster of DB instances instead of a single instance. Each connection is handled by a specific DB instance. When you connect to an Aurora cluster, the host name and port that you specify point to an intermediate handler called an endpoint. Aurora uses the endpoint mechanism to abstract these connections. Thus, you don't have to hardcode all the hostnames or write your own logic for load-balancing and rerouting connections when some DB instances aren't available.

For certain Aurora tasks, different instances or groups of instances perform different roles. For example, the primary instance handles all data definition language (DDL) and data manipulation language (DML) statements. Up to 15 Aurora Replicas handle read-only query traffic.



The screenshot shows the Amazon Aurora console. At the top, there's a table of DB instances:

DB identifier	Role	Engine	Class	Status	CPU
tutorialsdojo-1	Cluster	Aurora MySQL		Available	
tutorialsdojo	Writer	Aurora MySQL	db.t2.small	Available	9.33%
tutorialsdojo-ap-southeast-2b	Reader	Aurora MySQL	db.t2.small	Available	7.70%

Below this, there's a section for 'Endpoints (2)' with buttons for 'Edit', 'Delete', and 'Create custom endpoint'. It contains a search bar and a table of endpoints:

Endpoint name	Status	Type	Port
tutorialsdojo-1.cluster-ro-cerpn6ov4bsw.ap-southeast-2.rds.amazonaws.com	Available	Reader	3306
tutorialsdojo-1.cluster-cerpn6ov4bsw.ap-southeast-2.rds.amazonaws.com	Available	Writer	3306

Using endpoints, you can map each connection to the appropriate instance or group of instances based on your use case. For example, to perform DDL statements you can connect to whichever instance is the primary instance. To perform queries, you can connect to the reader endpoint, with Aurora automatically performing load-balancing among all the Aurora Replicas. For clusters with DB instances of different capacities or configurations, you can connect to custom endpoints associated with different subsets of DB instances. For diagnosis or tuning, you can connect to a specific instance endpoint to examine details about a specific DB instance.

The custom endpoint provides load-balanced database connections based on criteria other than the read-only or read-write capability of the DB instances. For example, you might define a custom endpoint to connect to instances that use a particular AWS instance class or a particular DB parameter group.

Then you might tell particular groups of users about this custom endpoint. For example, you might direct internal users to low-capacity instances for report generation or ad hoc (one-time) querying, and direct production traffic to high-capacity instances. Hence, creating a custom endpoint in Aurora based on the specified criteria for the production traffic and another custom endpoint to handle the reporting queries is the correct answer.

Configuring your application to use the reader endpoint for both production traffic and reporting queries, which will enable your Aurora database to automatically perform load-balancing among all the Aurora Replicas is incorrect. Although it is true that a reader endpoint enables your Aurora database to automatically perform load-balancing among all the Aurora Replicas, it is quite limited to doing read operations only. You still need to use a custom endpoint to load-balance the database connections based on the specified criteria.

The option that says: In your application, use the instance endpoint of your Aurora database to handle the incoming production traffic and use the cluster endpoint to handle reporting queries is incorrect because a cluster endpoint (also known as a writer endpoint) for an Aurora DB cluster simply connects to the current primary DB instance for that DB cluster. This endpoint can perform write operations in the database such as DDL statements, which is perfect for handling production traffic but not suitable for handling queries for reporting since there will be no write database operations that will be sent.

Moreover, the endpoint does not point to lower-capacity or high-capacity instances as per the requirement. A better solution for this is to use a custom endpoint.

The option that says: Do nothing since by default, Aurora will automatically direct the production traffic to your high-capacity instances and the reporting queries to your low-capacity instances is incorrect because Aurora does not do this by default. You have to create custom endpoints in order to accomplish this requirement.

Explanation:

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Overview.Endpoints.html> Amazon Aurora Overview:
<https://youtu.be/iwS1h7rLNBQ>
Check out this Amazon Aurora Cheat Sheet:
<https://tutorialsdojo.com/amazon-aurora/>

NEW QUESTION # 420

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