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Amazon AWS Certified Developer - Associate Sample Questions (Q92-Q97):

NEW QUESTION # 92

A developer is creating a microservices application that runs across multiple compute environments.

The application must securely access secrets that are stored in AWS Secrets Manager with minimal network latency. The developer wants a solution that reduces the number of direct calls to Secrets Manager and simplifies secrets management across environments. Which solution will meet these requirements with the LEAST operational overhead?

- A. Create a custom script that retrieves secrets directly from Secrets Manager and caches the secrets in a local database for each compute environment.
- B. Implement lazy loading logic in the application to fetch secrets directly from Secrets Manager and to cache the secrets in Redis.
- C. Store the secrets in an Amazon S3 bucket. Retrieve and load the secrets as environment variables during application startup for each compute environment.
- **D. Install the Secrets Manager Agent in each compute environment. Configure the agent to cache secrets locally. Securely retrieve the secrets from Secrets Manager as needed.**

Answer: D

Explanation:

The Secrets Manager Agent provides an out-of-the-box solution for securely caching secrets locally, reducing latency and operational overhead.

* Why Option B is Correct:

* Caching: The agent securely caches secrets locally, minimizing Secrets Manager API calls.

* Security: Secrets remain secure during retrieval and storage.

* Low Operational Overhead: Managed solution eliminates the need for custom logic.

* Why Not Other Options:

* Option A: Custom scripts introduce complexity and require ongoing maintenance.

* Option C: Using Redis requires managing an additional service, increasing overhead.

* Option D: Storing secrets in S3 lacks the fine-grained security controls of Secrets Manager.

NEW QUESTION # 93

A developer is building a web application that uses Amazon API Gateway to expose an AWS Lambda function to process requests from clients. During testing, the developer notices that the API Gateway times out even though the Lambda function finishes under the set time limit.

Which of the following API Gateway metrics in Amazon CloudWatch can help the developer troubleshoot the issue? (Choose two.)

- A. CacheHitCount
- **B. Latency**
- **C. IntegrationLatency**
- D. CacheMissCount
- E. Count

Answer: B,C

Explanation:

Amazon API Gateway is a service that enables developers to create, publish, maintain, monitor, and secure APIs at any scale.

Amazon CloudWatch is a service that monitors AWS resources and applications. API Gateway provides several CloudWatch metrics to help developers troubleshoot issues with their APIs. Two of the metrics that can help the developer troubleshoot the issue of API Gateway timing out are:

* IntegrationLatency: This metric measures the time between when API Gateway relays a request to the backend and when it receives a response from the backend. A high value for this metric indicates that the backend is taking too long to respond and may cause API Gateway to time out.

* Latency: This metric measures the time between when API Gateway receives a request from a client and when it returns a response to the client. A high value for this metric indicates that either the integration latency is high or API Gateway is taking too long to process the request or response.

References:

* [What Is Amazon API Gateway? - Amazon API Gateway]

* [Amazon API Gateway Metrics and Dimensions - Amazon CloudWatch]

* [Troubleshooting API Errors - Amazon API Gateway]

NEW QUESTION # 94

A company is building a social media application. A developer is modifying an AWS Lambda function that updates a database with

data that tracks each user's online activity. A web application server uses the AWS SDK to invoke the Lambda function. The developer has tested the new Lambda code and is ready to deploy the code into production. However, the developer wants to allow only a small percentage of the invocations from the AWS SDK to call the new code. Which solution will meet these requirements?

- **A. Create an alias for the Lambda function. Configure a specific weight value for the updated version.**
- B. Create an Application Load Balancer. Specify weighted target groups for the original Lambda function and the updated Lambda function.
- C. Configure a Lambda version that has a specific weight value for the updated Lambda function.
- D. Create a Network Load Balancer. Specify weighted target groups for the original Lambda function and the updated Lambda function.

Answer: A

NEW QUESTION # 95

A developer wrote an application that uses an AWS Lambda function to asynchronously generate short videos based on requests from customers. This video generation can take up to 10 minutes. After the video is generated, a URL to download the video is pushed to the customer's web browser. The customer should be able to access these videos for at least 3 hours after generation. Which solution will meet these requirements?

- A. Store the video in the /tmp folder within the Lambda execution environment. Push a Lambda function URL to the customer.
- **B. Store the video in Amazon S3. Generate a presigned URL for the video object and push the URL to the customer.**
- C. Store the video in an Amazon EFS file system attached to the function. Generate a presigned URL for the video object and push the URL to the customer.
- D. Store the video in an Amazon CloudFront distribution. Generate a presigned URL for the video object and push the URL to the customer.

Answer: B

Explanation:

The customer must be able to download the generated video for at least 3 hours, which requires durable storage that persists beyond the Lambda execution environment. The best fit is Amazon S3 with a presigned URL.

Lambda's /tmp storage (Option A) is ephemeral and scoped to the execution environment. It is not intended for durable customer downloads and can be deleted when the execution environment is recycled. A Lambda function URL also does not solve durable file hosting and would require the function to serve the content itself.

Option C uses S3 to store the video object durably and then issues a presigned URL that grants time-limited access to that specific object. Presigned URLs are designed for exactly this scenario: allow unauthenticated users temporary access to a private S3 object without making the bucket public. The developer can set the URL expiration to 3 hours (or longer), meeting the access requirement cleanly.

Option B is incorrect because S3 presigned URLs are for S3 objects, not EFS files. EFS does not natively use S3-style presigned URLs for external downloads.

Option D is not the right model: CloudFront can distribute S3 content and supports signed URLs/cookies, but CloudFront is a distribution layer, not an origin storage solution by itself. You would still need to store the video in S3 (or another origin). For the stated requirement, S3 + presigned URL is simpler and has less overhead.

Therefore, store videos in Amazon S3 and provide presigned URLs with a 3-hour expiration.

NEW QUESTION # 96

A healthcare company is developing a multi-tier web application to manage patient records that are in an Amazon Aurora PostgreSQL database cluster. The company stores the application code in a Git repository and deploys the code to Amazon EC2 instances.

The application must comply with security policies and follow the principle of least privilege. The company must securely manage database credentials and API keys within the application code. The company must have the ability to rotate encryption keys on demand.

Which solution will meet these requirements?

- A. Store the database credentials and API keys as parameters in AWS Systems Manager Parameter Store. Encrypt the credentials and API keys with AWS managed AWS KMS keys. Use the AWS SDK to retrieve secrets.
- **B. Store the database credentials and API keys in AWS Secrets Manager. Use customer managed AWS KMS keys. Set up**

automatic key rotation. Create a key policy in the application to retrieve secrets by using the AWS SDK.

- C. Store database credentials and API keys in AWS Secrets Manager. Use AWS managed AWS KMS keys. Set up automatic key rotation. Use the AWS SDK to retrieve secrets.
- D. Store the database credentials in the application code. Separate credentials by using environment-specific branches that have restricted access to the code repositories.

Answer: C

Explanation:

Requirement Summary:

- * Multi-tier app on EC2 + Aurora PostgreSQL
- * Must comply with least privilege and security policies
- * Need to manage credentials and API keys securely
- * Must support key rotation on demand

Evaluate Options:

#A. Secrets Manager + AWS managed KMS keys

- * #Best practice for secure secret storage
- * #Supports auto rotation
- * #Uses AWS SDK to fetch at runtime (secure, avoids hardcoding)
- * AWS managed keys are rotated automatically and easier to manage

B: Secrets Manager + customer managed keys

- * ##Also valid, but adds complexity
- * Since the question asks for LEAST development effort, AWS-managed keys are preferred
- C: Store secrets in code
- * #Violates all security best practices

D: Use SSM Parameter Store + AWS managed keys

- * ##Possible, but Secrets Manager is preferred when rotation is needed
- * Parameter Store does not natively rotate secrets
- * Secrets Manager: <https://docs.aws.amazon.com/secretsmanager/latest/userguide/intro.html>
- * Automatic key rotation: <https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html>
- * Best practices for secret management: <https://docs.aws.amazon.com/secretsmanager/latest/userguide/best-practices.html>

NEW QUESTION # 97

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