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Amazon DVA-C02 (AWS Certified Developer - Associate) certification exam is designed for individuals who have experience in developing and maintaining applications on the Amazon Web Services (AWS) platform. AWS Certified Developer - Associate certification validates the individual's ability to design, deploy, and maintain AWS-based applications using various AWS services and tools.

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The DVA-C02 exam consists of 65 multiple-choice and multiple-response questions that must be completed in 130 minutes. DVA-C02 exam fee is \$150, and candidates must score at least 720 out of 1000 to pass. DVA-C02 exam is available in English, Japanese, Korean, and Simplified Chinese, and can be taken either in-person at a testing center or remotely through online proctoring. AWS Certified Developer - Associate certification is valid for three years, after which the candidate must recertify to maintain their status as an AWS Certified Developer - Associate.

The DVA-C02 Exam is an important certification for developers looking to validate their skills and knowledge in AWS development. It covers a wide range of topics related to AWS development, including AWS core services, developer tools, and programming languages commonly used in AWS development. By passing the DVA-C02 exam, candidates can demonstrate their ability to design, develop, and deploy cloud-based applications using AWS services and best practices, making them a valuable asset to any organization.

Amazon AWS Certified Developer - Associate Sample Questions (Q340-Q345):

NEW QUESTION # 340

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. Implement lazy loading logic in the application to fetch secrets directly from Secrets Manager and to cache the secrets in Redis.
- **B. 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.**
- 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. Create a custom script that retrieves secrets directly from Secrets Manager and caches the secrets in a local database for each compute environment.

Answer: B

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.

References:

* Caching Secrets in AWS Secrets Manager

NEW QUESTION # 341

A company needs to develop a proof of concept for a web service application. The application will show the weather forecast for one of the company's office locations. The application will provide a REST endpoint that clients can call. Where possible, the application should use caching features provided by AWS to limit the number of requests to the backend service. The application backend will receive a small amount of traffic only during testing.

Which approach should the developer take to provide the REST endpoint MOST cost-effectively?

- A. Create a container image. Deploy the container image by using Amazon ECS. Expose the functionality by using Amazon API Gateway.
- **B. Create an AWS Lambda function by using AWS SAM. Expose the Lambda functionality by using Amazon API Gateway.**
- C. Create a container image. Deploy the container image by using Amazon EKS. Expose the functionality by using Amazon API Gateway.
- D. Create a microservices application. Deploy the application to AWS Elastic Beanstalk. Expose the AWS Lambda functionality by using an Application Load Balancer.

Answer: B

Explanation:

Requirement Summary:

Simple REST endpoint for weather data

Light backend usage (POC, testing)

Wants caching support to reduce backend calls

Must be cost-effective

Evaluate Options:

B: Lambda + API Gateway + SAM

Serverless = No idle costs

API Gateway can enable caching (response caching at endpoint level)

SAM makes deployment simple and repeatable

Perfect for low-traffic testing

A: EKS + API Gateway

High overhead

Not cost-effective for POC/testing

C: ECS + API Gateway

Similar to A: Container orchestration not needed for light REST endpoint D: Elastic Beanstalk + ALB + Lambda Overly complex and does not directly expose Lambda Beanstalk better suited for full apps, not small REST functions AWS SAM:

<https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/what-is-sam.html>

API Gateway caching: <https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-caching.html>

Serverless Best Practices: <https://docs.aws.amazon.com/lambda/latest/dg/best-practices.html>

NEW QUESTION # 342

A development team has created an open, public-facing RESTful API in Amazon API Gateway.

The team wants to add an authentication mechanism to the API. Which approaches should the development team use to accomplish this goal? (Choose two.)

- A. Create a user pool in Amazon Cognito and configure API Gateway to use an Amazon Cognito authorizer.
- B. Create a user pool in Amazon Cognito and configure authentication in Amazon Route 53. Create a DNS A record that points to the public API Gateway URL.
- C. Configure API Gateway to use an AWS Lambda authorizer. Implement the authorizer in a Lambda function.
- D. Allow the IP addresses of authorized users. Add an Elastic Load Balancing (ELB) load balancer in front of the RESTful API and restrict its security group to authorized IP addresses.
- E. Allow the IP addresses of authorized users. Restrict the security group to allow only these IP addresses.

Answer: A,C

Explanation:

Amazon API Gateway can be integrated with Amazon Cognito user pools to enable token-based authentication, ideal for public APIs that need user sign-in.

API Gateway can also use a Lambda authorizer, which allows for custom authentication logic using Lambda functions, offering flexibility for complex authorization needs.

NEW QUESTION # 343

A developer is creating an application that will store personal health information (PHI). The PHI needs to be encrypted at all times. An encrypted Amazon RDS for MySQL DB instance is storing the data. The developer wants to increase the performance of the application by caching frequently accessed data while adding the ability to sort or rank the cached datasets.

Which solution will meet these requirements?

- A. Create an Amazon ElastiCache for Redis instance. Enable encryption of data in transit and at rest. Store frequently accessed data in the cache.
- B. Create an Amazon ElastiCache for Memcached instance. Enable encryption of data in transit and at rest. Store frequently accessed data in the cache.
- C. Create an Amazon RDS for MySQL read replica. Connect to the read replica by using SSL. Configure the read replica to store frequently accessed data.
- D. Create an Amazon DynamoDB table and a DynamoDB Accelerator (DAX) cluster for the table. Store frequently accessed data in the DynamoDB table.

Answer: A

Explanation:

Amazon ElastiCache is a service that offers fully managed in-memory data stores that are compatible with Redis or Memcached.

The developer can create an ElastiCache for Redis instance and enable encryption of data in transit and at rest. This will ensure that the PHI is encrypted at all times. The developer can store frequently accessed data in the cache and use Redis features such as sorting and ranking to enhance the performance of the application.

Reference:

[What Is Amazon ElastiCache? - Amazon ElastiCache]

[Encryption in Transit - Amazon ElastiCache for Redis]

[Encryption at Rest - Amazon ElastiCache for Redis]

NEW QUESTION # 344

A developer is automating a new application deployment with AWS SAM. The new application has one AWS Lambda function and one Amazon S3 bucket. The Lambda function must access the S3 bucket to only read objects.

How should the developer configure AWS SAM to grant the necessary read permission to the S3 bucket?

- A. Create an Amazon SQS topic for only S3 object reads. Reference the topic in the template.
- **B. Add the S3ReadPolicy template to the Lambda function's execution role.**
- C. Add a custom S3 bucket policy to the Lambda function.
- D. Reference a second Lambda authorizer function.

Answer: B

NEW QUESTION # 345

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