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Amazon DVA-C02 (AWS Certified Developer - Associate) exam is a certification offered by Amazon Web Services (AWS) for developers who want to demonstrate their expertise in designing, developing, and deploying cloud-based solutions using AWS technologies. DVA-C02 exam validates a candidate's ability to write code using AWS APIs, create and maintain applications using AWS services, and deploy applications on AWS infrastructure. AWS Certified Developer - Associate certification is recommended for developers with one or more years of experience with AWS.

Amazon DVA-C02 exam, also known as the AWS Certified Developer - Associate exam, is a certification exam offered by Amazon Web Services (AWS) for software developers who want to validate their skills and knowledge in developing applications on the AWS platform. DVA-C02 Exam is designed to test a candidate's ability to design, develop, and deploy cloud-based applications using AWS services and APIs. DVA-C02 exam covers a wide range of topics, including AWS core services, security, databases, and serverless architecture.

Amazon DVA-C02 certification is valuable for developers, solutions architects, and system administrators who want to demonstrate

their expertise in developing and deploying applications on AWS. AWS Certified Developer - Associate certification is recognized globally and can help professionals advance their careers and increase their earning potential. Certified professionals are also eligible for the AWS Certified Solutions Architect – Associate and AWS Certified DevOps Engineer – Professional certifications.

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Amazon AWS Certified Developer - Associate Sample Questions (Q255-Q260):

NEW QUESTION # 255

An application uses an Amazon EC2 Auto Scaling group. A developer notices that EC2 instances are taking a long time to become available during scale-out events. The UserData script is taking a long time to run.

The developer must implement a solution to decrease the time that elapses before an EC2 instance becomes available. The solution must make the most recent version of the application available at all times and must apply all available security updates. The solution also must minimize the number of images that are created.

The images must be validated.

Which combination of steps should the developer take to meet these requirements? (Choose two.)

- A. Use EC2 Image Builder to create an Amazon Machine Image (AMI). Install all the patches and agents that are needed to manage and run the application. Update the Auto Scaling group launch configuration to use the AMI.
- B. Use EC2 Image Builder to create an Amazon Machine Image (AMI). Install the latest version of the application and all the patches and agents that are needed to manage and run the application. Update the Auto Scaling group launch configuration to use the AMI.
- C. Set up AWS CodePipeline to deploy the most recent version of the application at runtime.
- D. Remove any commands that perform operating system patching from the UserData script.
- E. Set up AWS CodeDeploy to deploy the most recent version of the application at runtime.

Answer: B,D

Explanation:

Explanation

AWS CloudFormation is a service that enables developers to model and provision AWS resources using templates. The developer can use the following steps to avoid accidental database deletion in the future:

Set up AWS CodeDeploy to deploy the most recent version of the application at runtime. This will ensure that the application code is always up to date and does not depend on the AMI.

Remove any commands that perform operating system patching from the UserData script. This will reduce the time that the UserData script takes to run and speed up the instance launch process.

References:

[What Is AWS CloudFormation? - AWS CloudFormation]

[What Is AWS CodeDeploy? - AWS CodeDeploy]

[Running Commands on Your Linux Instance at Launch - Amazon Elastic Compute Cloud]

NEW QUESTION # 256

A company runs an application on AWS. The company deployed the application on Amazon EC2 instances. The application stores data on Amazon Aurora.

The application recently logged multiple application-specific custom DECRYPT_ERROR errors to Amazon CloudWatch logs. The company did not detect the issue until the automated tests that run every 30 minutes failed. A developer must implement a solution that will monitor for the custom errors and alert a development team in real time when these errors occur in the production environment.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Configure the application to create a custom metric and to push the metric to CloudWatch. Create an AWS CloudTrail alarm. Configure the CloudTrail alarm to use an Amazon Simple Notification Service (Amazon SNS) topic to send notifications.
- B. Create an AWS Lambda function to run every 5 minutes to scan the CloudWatch logs for the keyword DECRYP_ERROR. Configure the Lambda function to use Amazon Simple Notification Service (Amazon SNS) to send a notification.
- C. Use Amazon CloudWatch Logs to create a metric filter that has a filter pattern for DECRYP_ERROR. Create a CloudWatch alarm on this metric for a threshold ≥ 1 . Configure the alarm to send Amazon Simple Notification Service (Amazon SNS) notifications.
- D. Install the CloudWatch unified agent on the EC2 instance. Configure the application to generate a metric for the keyword DECRYP_ERROR errors. Configure the agent to send Amazon Simple Notification Service (Amazon SNS) notifications.

Answer: C

Explanation:

CloudWatch Logs can use filter expressions. For example, find a specific IP inside of a log Or count occurrences of "ERROR" in your logs - Metric filters can be used to trigger CloudWatch alarms.

NEW QUESTION # 257

A company runs an application on AWS. The application stores data in an Amazon DynamoDB table. Some queries are taking a long time to run. These slow queries involve an attribute that is not the table's partition key or sort key. The amount of data that the application stores in the DynamoDB table is expected to increase significantly. A developer must increase the performance of the queries.

Which solution will meet these requirements?

- A. Perform a parallel scan operation by issuing individual scan requests in the parameters. Specify the segment for the scan requests and the total number of segments for the parallel scan.
- B. Turn on read capacity auto scaling for the DynamoDB table. Increase the maximum read capacity units (RCUs).
- C. Increase the page size for each request by setting the Limit parameter to be higher than the default value. Configure the application to retry any request that exceeds the provisioned throughput.
- D. Create a global secondary index (GSI). Set query attribute to be the partition key of the index

Answer: D

Explanation:

Explanation

Creating a global secondary index (GSI) is the best solution to improve the performance of the queries that involve an attribute that is not the table's partition key or sort key. A GSI allows you to define an alternate key for your table and query the data using that key. This way, you can avoid scanning the entire table and reduce the latency and cost of your queries. You should also follow the best practices for designing and using GSIs in DynamoDB12. References

* Working with Global Secondary Indexes - Amazon DynamoDB

* DynamoDB Performance & Latency - Everything You Need To Know

NEW QUESTION # 258

A developer is creating a publicly accessible enterprise website consisting of only static assets.

The developer is hosting the website in Amazon S3 and serving the website to users through an Amazon CloudFront distribution.

The users of this application must not be able to access the application content directly from an S3 bucket. All content must be served through the Amazon CloudFront distribution.

Which solution will meet these requirements?

- A. Update the CloudFront distribution's origin to send a custom header. Update the S3 bucket policy with a condition by using the aws:RequestTag/tag-key key. Configure the tag-key as the custom header name, and the value being matched is the header's value.
- B. Update the S3 bucket settings. Enable the block all public access setting in Amazon S3. Configure the CloudFront distribution's with Amazon S3 as the origin. Update the S3 bucket policy to allow CloudFront write access.
- C. Create a new origin access control (OAC) in CloudFront. Configure the CloudFront distribution's origin to use the new

OAC. Update the S3 bucket policy to allow CloudFront OAC with read and write access to access Amazon S3 as the origin.

- D. Update the S3 bucket's static website settings. Enable static website hosting and specifying index and error documents. Update the CloudFront origin to use the S3 bucket's website endpoint.

Answer: D

NEW QUESTION # 259

A developer maintains an Amazon API Gateway REST API. Customers use the API through a frontend UI and Amazon Cognito authentication.

The developer has a new version of the API that contains new endpoints and backward-incompatible interface changes. The developer needs to provide beta access to other developers on the team without affecting customers.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Implement a query parameter in the API application code that determines which code version to call.
- B. Specify new API Gateway endpoints for the API endpoints that the developer wants to add.
- C. Define a development stage on the API Gateway API. Instruct the other developers to point the endpoints to the development stage.
- D. Define a new API Gateway API that points to the new API application code. Instruct the other developers to point the endpoints to the new API.

Answer: C

Explanation:

Amazon API Gateway is a service that enables developers to create, publish, maintain, monitor, and secure APIs at any scale. The developer can define a development stage on the API Gateway API and instruct the other developers to point the endpoints to the development stage. This way, the developer can provide beta access to the new version of the API without affecting customers who use the production stage. This solution will meet the requirements with the least operational overhead.

NEW QUESTION # 260

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