Amazon

Exam Questions AWS-Certified-Developer-Associate

Amazon AWS Certified Developer - Associate

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NEW QUESTION 1
A company has a multi-node Windows legacy application that runs on premises. The application uses a network shared folder as a centralized configuration repository to store configuration files in .xml format. The company is migrating the application to Amazon EC2 instances. As part of the migration to AWS, a developer must identify a solution that provides high availability for the repository.
Which solution will meet this requirement MOST cost-effectively?

A. Mount an Amazon Elastic Block Store (Amazon EBS) volume onto one of the EC2 instance
B. Deploy a file system on the EBS volum
C. Use the host operating system to share a folde
D. Update the application code to read and write configuration files from the shared folder.
E. Deploy a micro EC2 instance with an instance store volum
F. Use the host operating system to share a folde
G. Update the application code to read and write configuration files from the shared folder.
H. Create an Amazon S3 bucket to host the repositor
I. Migrate the existing .xml files to the S3 bucke
J. Update the application code to use the AWS SDK to read and write configuration files from Amazon S3.
K. Create an Amazon S3 bucket to host the repositor
L. Migrate the existing .xml files to the S3 bucke
M. Mount the S3 bucket to the EC2 instances as a local volum
N. Update the application code to read and write configuration files from the disk.

Answer: C

Explanation:
Amazon S3 is a service that provides highly scalable, durable, and secure object storage. The developer can create an S3 bucket to host the repository and migrate the existing .xml files to the S3 bucket. The developer can update the application code to use the AWS SDK to read and write configuration files from S3. This solution will meet the requirement of high availability for the repository in a cost-effective way.
References:
? [Amazon Simple Storage Service (S3)]
? [Using AWS SDKs with Amazon S3]

NEW QUESTION 2
An application that runs on AWS receives messages from an Amazon Simple Queue Service (Amazon SQS) queue and processes the messages in batches. The application sends the data to another SQS queue to be consumed by another legacy application. The legacy system can take up to 5 minutes to process some transaction data.
A developer wants to ensure that there are no out-of-order updates in the legacy system. The developer cannot alter the behavior of the legacy system.
Which solution will meet these requirements?

A. Use an SQS FIFO queu
B. Configure the visibility timeout value.
C. Use an SQS standard queue with a SendMessageBatchRequestEntry data typ
D. Configure the DelaySeconds values.
E. Use an SQS standard queue with a SendMessageBatchRequestEntry data typ
F. Configure the visibility timeout value.
G. Use an SQS FIFO queu
H. Configure the DelaySeconds value.

Answer: A

Explanation:
? An SQS FIFO queue is a type of queue that preserves the order of messages and ensures that each message is delivered and processed only once1. This is suitable for the scenario where the developer wants to ensure that there are no out-of-order updates in the legacy system.
? The visibility timeout value is the amount of time that a message is invisible in the queue after a consumer receives it2. This prevents other consumers from processing the same message simultaneously. If the consumer does not delete the message before the visibility timeout expires, the message becomes visible again and another consumer can receive it2.
? In this scenario, the developer needs to configure the visibility timeout value to be longer than the maximum processing time of the legacy system, which is 5 minutes. This will ensure that the message remains invisible in the queue until the legacy system finishes processing it and deletes it. This will prevent duplicate or out-of-order processing of messages by the legacy system.

NEW QUESTION 3
A developer is creating an AWS Lambda function that needs credentials to connect to an Amazon RDS for MySQL database. An Amazon S3 bucket currently stores the credentials. The developer needs to improve the existing solution by implementing credential rotation and secure storage. The developer also needs to provide integration with the Lambda function.
Which solution should the developer use to store and retrieve the credentials with the LEAST management overhead?

A. Store the credentials in AWS Systems Manager Parameter Stor
B. Select the database that the parameter will acces
C. Use the default AWS Key Management Service (AWS KMS) key to encrypt the paramete
D. Enable automatic rotation for the paramete
E. Use the parameter from Parameter Store on the Lambda function to connect to the database.
F. Encrypt the credentials with the default AWS Key Management Service (AWS KMS) ke
G. Store the credentials as environment variables for the Lambda functio
H. Create a second Lambda function to generate new credentials and to rotate the credentials by updating the environment variables of the first Lambda functio
I. Invoke the second Lambda function by using an Amazon EventBridge rule that runs on a schedul
J. Update the database to use the new credential
K. On the first Lambda function, retrieve the credentials from the environment variable
L. Decrypt the credentials by using AWS KMS, Connect to the database.
M. Store the credentials in AWS Secrets Manage

N. Set the secret type to Credentials for Amazon RDS databas
O. Select the database that the secret will acces
P. Use the default AWS Key Management Service (AWS KMS) key to encrypt the secre
Q. Enable automatic rotation for the secre
R. Use the secret from Secrets Manager on the Lambda function to connect to the database.
S. Encrypt the credentials by using AWS Key Management Service (AWS KMS). Store the credentials in an Amazon DynamoDB tabl
T. Create a second Lambda function to rotate the credential
. Invoke the second Lambda function by using an Amazon EventBridge rule that runs on a schedul
. Update the DynamoDB tabl
. Update the database to use the generated credential
. Retrieve the credentials from DynamoDB with the first Lambda functio
. Connect to the database.

Answer: C

Explanation:
AWS Secrets Manager is a service that helps you protect secrets needed to access your applications, services, and IT resources. Secrets Manager enables you to store, retrieve, and rotate secrets such as database credentials, API keys, and passwords. Secrets Manager supports a secret type for RDS databases, which allows you to select an existing RDS database instance and generate credentials for it. Secrets Manager encrypts the secret using AWS Key Management Service (AWS KMS) keys and enables automatic rotation of the secret at a specified interval. A Lambda function can use the AWS SDK or CLI to retrieve the secret from Secrets Manager and use it to connect to the database. Reference: Rotating your AWS Secrets Manager secrets

NEW QUESTION 4
A developer is configuring an applications deployment environment in AWS CodePipeine. The application code is stored in a GitHub repository. The developer wants to ensure that the repository package's unit tests run in the new deployment environment. The deployment has already set the pipeline's source provider to GitHub and has specified the repository and branch to use in the deployment.
When combination of steps should the developer take next to meet these requirements with the least the LEAST overhead' (Select TWO).

A. Create an AWS CodeCommt projec
B. Add the repository package's build and test commands to the protects buildspec
C. Create an AWS CodeBuid projec
D. Add the repository package's build and test commands to the projects buildspec
E. Create an AWS CodeDeploy protec
F. Add the repository package's build and test commands to the project's buildspec
G. Add an action to the source stag
H. Specify the newly created project as the action provide
I. Specify the build attract as the actions input artifact.
J. Add a new stage to the pipeline alter the source stag
K. Add an action to the new stag
L. Speedy the newly created protect as the action provide
M. Specify the source artifact as the action's input artifact.

Answer: BE

Explanation:
This solution will ensure that the repository package’s unit tests run in the new deployment environment with the least overhead because it uses AWS CodeBuild to build and test the code in a fully managed service, and AWS CodePipeline to orchestrate the deployment stages and actions. Option A is not optimal because it will use AWS CodeCommit instead of AWS CodeBuild, which is a source control service, not a build and test service. Option C is not optimal because it will use AWS CodeDeploy instead of AWS CodeBuild, which is a deployment service, not a build and test service. Option D is not optimal because it will add an action to the source stage instead of creating a new stage, which will not follow the best practice of separating different deployment phases. References: AWS CodeBuild, AWS CodePipeline

NEW QUESTION 5
A company uses Amazon API Gateway to expose a set of APIs to customers. The APIs have caching enabled in API Gateway. Customers need a way to invalidate the cache for each API when they test the API.
What should a developer do to give customers the ability to invalidate the API cache?

A. Ask the customers to use AWS credentials to call the InvalidateCache API operation.
B. Attach an InvalidateCache policy to the IAM execution role that the customers use to invoke the AP
C. Ask the customers to send a request that contains the HTTP header when they make an API call.
D. Ask the customers to use the AWS SDK API Gateway class to invoke the InvalidateCache API operation.
E. Attach an InvalidateCache policy to the IAM execution role that the customers use to invoke the AP
F. Ask the customers to add the INVALIDATE_CACHE query string parameter when they make an API call.

Answer: D

NEW QUESTION 6
A developer is creating a mobile application that will not require users to log in. What is the MOST efficient method to grant users access to AWS resources'?

A. Use an identity provider to securely authenticate with the application.
B. Create an AWS Lambda function to create an 1AM user when a user accesses the application.
C. Create credentials using AWS KMS and apply these credentials to users when using the application.
D. Use Amazon Cognito to associate unauthenticated users with an IAM role that has limited access to resources.

Answer: D

Explanation:
This solution is the most efficient method to grant users access to AWS resources without requiring them to log in. Amazon Cognito is a service that provides user sign-up, sign-in, and access control for web and mobile applications. Amazon Cognito identity pools support both authenticated and unauthenticated users.

Unauthenticated users receive access to your AWS resources even if they aren't logged in with any of your identity providers (IdPs). You can use Amazon Cognito to associate unauthenticated users with an IAM role that has limited access to resources, such as Amazon S3 buckets or DynamoDB tables. This degree of access is useful to display content to users before they log in or to allow them to perform certain actions without signing up. Using an identity provider to securely authenticate with the application will require users to log in, which does not meet the requirement. Creating an AWS Lambda function to create an IAM user when a user accesses the application will incur unnecessary costs and complexity, and may pose security risks if not implemented properly. Creating credentials using AWS KMS and applying them to users when using the application will also incur unnecessary costs and complexity, and may not provide fine-grained access control for resources.
Reference: Switching unauthenticated users to authenticated users (identity pools), Allow
user access to your API without authentication (Anonymous user access)

NEW QUESTION 7
A developer is creating an AWS Lambda function that consumes messages from an Amazon Simple Queue Service (Amazon SQS) standard queue. The developer notices that the Lambda function processes some messages multiple times.
How should developer resolve this issue MOST cost-effectively?

A. Change the Amazon SQS standard queue to an Amazon SQS FIFO queue by using the Amazon SQS message deduplication ID.
B. Set up a dead-letter queue.
C. Set the maximum concurrency limit of the AWS Lambda function to 1
D. Change the message processing to use Amazon Kinesis Data Streams instead of Amazon SQS.

Answer: A

Explanation:
Amazon Simple Queue Service (Amazon SQS) is a fully managed queue service that allows you to de-couple and scale for applications1. Amazon SQS offers two types of queues: Standard and FIFO (First In First Out) queues1. The FIFO queue uses
the messageDeduplicationId property to treat messages with the same value as duplicate2.
Therefore, changing the Amazon SQS standard queue to an Amazon SQS FIFO queue using the Amazon SQS message deduplication ID can help resolve the issue of the Lambda function processing some messages multiple times. Therefore, option A is correct.

NEW QUESTION 8
A developer has an application that makes batch requests directly to Amazon DynamoDB by using the BatchGetItem low-level API operation. The responses frequently return values in the UnprocessedKeys element.
Which actions should the developer take to increase the resiliency of the application when the batch response includes values in UnprocessedKeys? (Choose two.)

A. Retry the batch operation immediately.
B. Retry the batch operation with exponential backoff and randomized delay.
C. Update the application to use an AWS software development kit (AWS SDK) to make the requests.
D. Increase the provisioned read capacity of the DynamoDB tables that the operation accesses.
E. Increase the provisioned write capacity of the DynamoDB tables that the operation accesses.

Answer: BC

Explanation:
The UnprocessedKeys element indicates that the BatchGetItem operation did not process all of the requested items in the current response. This can happen if the
response size limit is exceeded or if the table's provisioned throughput is exceeded. To handle this situation, the developer should retry the batch operation with exponential backoff and randomized delay to avoid throttling errors and reduce the load on the table. The developer should also use an AWS SDK to make the requests, as the SDKs automatically retry requests that return UnprocessedKeys.
References:
? [BatchGetItem - Amazon DynamoDB]
? [Working with Queries and Scans - Amazon DynamoDB]
? [Best Practices for Handling DynamoDB Throttling Errors]

NEW QUESTION 9
A company uses a custom root certificate authority certificate chain (Root CA Cert) that is 10 KB in size generate SSL certificates for its on-premises HTTPS endpoints. One of the company's cloud based applications has hundreds of AWS Lambda functions that pull date from these endpoints. A developer updated the trust store of the Lambda execution environment to use the Root CA Cert when the Lambda execution environment is initialized. The developer bundled the Root CA Cert as a text file in the Lambdas deployment bundle.
After 3 months of development the root CA Cert is no longer valid and must be updated. The developer needs a more efficient solution to update the Root CA Cert for all deployed Lambda functions. The solution must not include rebuilding or updating all Lambda functions that use the Root CA Cert. The solution must also work for all development, testing and production environment. Each environment is managed in a separate AWS account.
When combination of steps Would the developer take to meet these environments MOST cost-effectively? (Select TWO)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
This solution will meet the requirements by storing the Root CA Cert as a Secure String parameter in AWS Systems Manager Parameter Store, which is a secure and scalable service for storing and managing configuration data and secrets. The resource-based policy will allow IAM users in different AWS accounts and environments to access the parameter without requiring cross-account roles or permissions. The Lambda code will be refactored to load the Root CA Cert from the parameter store and modify the runtime trust store outside the Lambda function handler, which will improve performance and reduce latency by avoiding repeated calls to Parameter Store and trust store modifications for each invocation of the Lambda function. Option A is not optimal because it will use AWS Secrets Manager instead of AWS Systems Manager Parameter Store, which will incur additional costs and complexity for storing and managing a non-secret configuration data such as Root CA Cert. Option C is not optimal because it will deactivate the application secrets and monitor the application error logs temporarily, which will cause application downtime and potential data loss. Option D is not optimal because it will modify the runtime trust store inside the Lambda function handler, which will degrade performance and increase latency by repeating unnecessary operations for each invocation of the Lambda function.
References: AWS Systems Manager Parameter Store, [Using SSL/TLS to Encrypt a Connection to a DB Instance]

NEW QUESTION 10
A company receives food orders from multiple partners. The company has a microservices application that uses Amazon API Gateway APIs with AWS Lambda integration. Each partner sends orders by calling a customized API that is exposed through API Gateway. The API call invokes a shared Lambda function to process the orders.
Partners need to be notified after the Lambda function processes the orders. Each partner must receive updates for only the partner's own orders. The company wants to add new partners in the future with the fewest code changes possible.
Which solution will meet these requirements in the MOST scalable way?

A. Create a different Amazon Simple Notification Service (Amazon SNS) topic for each partne
B. Configure the Lambda function to publish messages for each partner to the partner's SNS topic.
C. Create a different Lambda function for each partne
D. Configure the Lambda function to notify each partner's service endpoint directly.
E. Create an Amazon Simple Notification Service (Amazon SNS) topi
F. Configure the Lambda function to publish messages with specific attributes to the SNS topi
G. Subscribe each partner to the SNS topi
H. Apply the appropriate filter policy to the topic subscriptions.
Create one Amazon Simple Notification Service (Amazon SNS) topi
J. Subscribe all partners to the SNS topic.

Answer: C

Explanation:
Amazon Simple Notification Service (Amazon SNS) is a fully managed messaging service that enables pub/sub communication between distributed systems. The developer can create an SNS topic and configure the Lambda function to publish messages with specific attributes to the topic. The developer can subscribe each partner to the SNS topic and apply the appropriate filter policy to the topic subscriptions. This way, each partner will receive updates for only their own orders based on the message attributes. This solution will meet the requirements in the most scalable way and allow adding new partners in the future with minimal code changes.
References:
? [Amazon Simple Notification Service (SNS)]
? [Filtering Messages with Attributes - Amazon Simple Notification Service]

NEW QUESTION 10
A developer is creating an application that will be deployed on IoT devices. The application will send data to a RESTful API that is deployed as an AWS Lambda function. The application will assign each API request a unique identifier. The volume of API requests from the application can randomly increase at any given time of day.
During periods of request throttling, the application might need to retry requests. The API must be able to handle duplicate requests without inconsistencies or data loss.
Which solution will meet these requirements?

A. Create an Amazon RDS for MySQL DB instanc
B. Store the unique identifier for each request in a database tabl
C. Modify the Lambda function to check the table for the identifier before processing the request.
D. Create an Amazon DynamoDB tabl
E. Store the unique identifier for each request in the tabl
F. Modify the Lambda function to check the table for the identifier before processing the request.
G. Create an Amazon DynamoDB tabl
H. Store the unique identifier for each request in the tabl
I. Modify the Lambda function to return a client error response when the function receives a duplicate request.
J. Create an Amazon ElastiCache for Memcached instanc
K. Store the unique identifier for each request in the cach
L. Modify the Lambda function to check the cache for the identifier before processing the request.

Answer: B

Explanation:
Amazon DynamoDB is a fully managed NoSQL database service that can store and retrieve any amount of data with high availability and performance. DynamoDB can handle concurrent requests from multiple IoT devices without throttling or data loss. To prevent duplicate requests from causing inconsistencies or data loss, the Lambda function can use DynamoDB conditional writes to check if the unique identifier for each request already exists in the table before processing the request. If the identifier exists, the function can skip or abort the request; otherwise, it can process the request and store the identifier in the table. Reference: Using conditional writes

NEW QUESTION 13
A developer is working on an ecommerce platform that communicates with several third- party payment processing APIs The third-party payment services do not provide a test environment.
The developer needs to validate the ecommerce platform's integration with the third-party payment processing APIs. The developer must test the API integration code without invoking the third-party payment processing APIs.
Which solution will meet these requirements'?

A. Set up an Amazon API Gateway REST API with a gateway response configured for status code 200 Add response templates that contain sample responses captured from the real third-party API.
B. Set up an AWS AppSync GraphQL API with a data source configured for each third- party API Specify an integration type of Mock Configure integration responses by using sample responses captured from the real third-party API.
C. Create an AWS Lambda function for each third-party AP
D. Embed responses captured from the real third-party AP
E. Configure Amazon Route 53 Resolver with an inbound endpoint for each Lambda function's Amazon Resource Name (ARN).
F. Set up an Amazon API Gateway REST API for each third-party API Specify an integration request type of Mock Configure integration responses by using sample responses captured from the real third-party API

Answer: D

Explanation:
Amazon API Gateway can mock responses for testing purposes without requiring any integration backend. This allows the developer to test the API integration code without invoking the third-party payment processing APIs. The developer can configure integration responses by using sample responses captured from the real third- party API. References:
? Mocking Integration Responses in API Gateway
? Set up Mock Integrations for an API in API Gateway

NEW QUESTION 18
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. 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.
B. Create a global secondary index (GSI). Set query attribute to be the partition key of the index
C. 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.
D. Turn on read capacity auto scaling for the DynamoDB tabl
E. Increase the maximum read capacity units (RCUs).

Answer: B

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 20
An developer is building a serverless application by using the AWS Serverless Application Model (AWS SAM). The developer is currently testing the application in a development environment. When the application is nearly finsihed, the developer will need to set up
additional testing and staging environments for a quality assurance team.
The developer wants to use a feature of the AWS SAM to set up deployments to multiple environments.
Which solution will meet these requirements with the LEAST development effort?

A. Add a configuration file in TOML format to group configuration entries to every environmen
B. Add a table for each testing and staging environmen
C. Deploy updates to the environments by using the sam deploy command and the --config-env flag that corresponds to the each environment.
D. Create additional AWS SAM templates for each testing and staging environmen
E. Write a custom shell script that uses the sam deploy command and the --template-file flag to deploy updates to the environments.
F. Create one AWS SAM configuration file that has default parameter
G. Perform updates to the testing and staging environments by using the —parameter-overrides flag in the AWS SAM CLI and the parameters that the updates will override.
H. Use the existing AWS SAM templat
I. Add additional parameters to configure specific attributes for the serverless function and database table resources that are in each environmen
J. Deploy updates to the testing and staging environments by using the sam deploy command.

Answer: A

Explanation:
The correct answer is A. Add a configuration file in TOML format to group configuration entries to every environment. Add a table for each testing and staging environment. Deploy updates to the environments by using the sam deploy command and the --config-env flag that corresponds to the each environment.
* A. Add a configuration file in TOML format to group configuration entries to every environment. Add a table for each testing and staging environment. Deploy updates to the environments by using the sam deploy command and the --config-env flag that corresponds to the each environment. This is correct. This solution will meet the requirements with the least development effort, because it uses a feature of the AWS SAM CLI that supports a project-level configuration file that can be used to configure AWS SAM CLI command parameter values1. The configuration file can have multiple environments, each with its own set of parameter values, such as stack name, region, capabilities, and more2. The developer can use the --config-env option to specify which environment to use when deploying the application3. This way, the developer can avoid creating multiple templates or scripts, or manually overriding parameters for each environment.
* B. Create additional AWS SAM templates for each testing and staging environment. Write a custom shell script that uses the sam deploy command and the --template-file flag to
deploy updates to the environments. This is incorrect. This solution will not meet the requirements with the least development effort, because it requires creating and maintaining multiple templates and scripts for each environment. This can introduce duplication, inconsistency, and complexity in the deployment process.
* C. Create one AWS SAM configuration file that has default parameters. Perform updates to the testing and staging environments by using the —parameter-overrides flag in the AWS SAM CLI and the parameters that the updates will override. This is incorrect. This solution will not meet the requirements with the least development effort, because it requires manually specifying and overriding parameters for each environment every time the developer deploys the application. This can be error-prone, tedious, and inefficient.
* D. Use the existing AWS SAM template. Add additional parameters to configure specific attributes for the serverless function and database table resources that are in each environment. Deploy updates to the testing and staging environments by using the sam deploy command. This is incorrect. This solution will not meet the requirements with the least development effort, because it requires modifying the existing template and adding complexity to the resource definitions for each environment. This can also make it difficult to manage and track changes across different environments.
References:
? 1: AWS SAM CLI configuration file - AWS Serverless Application Model
? 2: Configuration file basics - AWS Serverless Application Model
? 3: Specify a configuration file - AWS Serverless Application Model

NEW QUESTION 23

A company is migrating an on-premises database to Amazon RDS for MySQL. The company has read-heavy workloads. The company wants to refactor the code to achieve optimum read performance for queries.
Which solution will meet this requirement with LEAST current and future effort?

A. Use a multi-AZ Amazon RDS deploymen
B. Increase the number of connections that the code makes to the database or increase the connection pool size if a connection pool is in use.
C. Use a multi-AZ Amazon RDS deploymen
D. Modify the code so that queries access the secondary RDS instance.
E. Deploy Amazon RDS with one or more read replica
F. Modify the application code so that queries use the URL for the read replicas.
G. Use open source replication software to create a copy of the MySQL database on an Amazon EC2 instanc
H. Modify the application code so that queries use the IP address of the EC2 instance.

Answer: C

Explanation:
Amazon RDS for MySQL supports read replicas, which are copies of the primary database instance that can handle read-only queries. Read replicas can improve the read performance of the database by offloading the read workload from the primary instance and distributing it across multiple replicas. To use read replicas, the application code needs to be modified to direct read queries to the URL of the read replicas, while write queries still go to the URL of the primary instance. This solution requires less current and future effort than using a multi-AZ deployment, which does not provide read scaling benefits, or using open source replication software, which requires additional configuration and maintenance. Reference: Working with read replicas

NEW QUESTION 25
An AWS Lambda function requires read access to an Amazon S3 bucket and requires read/write access to an Amazon DynamoDB table The correct 1AM policy already exists
What is the MOST secure way to grant the Lambda function access to the S3 bucket and the DynamoDB table?

A. Attach the existing 1AM policy to the Lambda function.
B. Create an 1AM role for the Lambda function Attach the existing 1AM policy to the role Attach the role to the Lambda function
C. Create an 1AM user with programmatic access Attach the existing 1AM policy to the use
D. Add the user access key ID and secret access key as environment variables in the Lambda function.
E. Add the AWS account root user access key ID and secret access key as encrypted environment variables in the Lambda function

Answer: B

Explanation:
The most secure way to grant the Lambda function access to the S3 bucket and the DynamoDB table is to create an IAM role for the Lambda function and attach the existing IAM policy to the role. This way, you can use the principle of least privilege and avoid exposing any credentials in your function code or environment variables. You can also leverage the temporary security credentials that AWS provides to the Lambda function when it assumes the role. This solution follows the best practices for working with AWS Lambda functions1 and designing and architecting with DynamoDB2. References
? Best practices for working with AWS Lambda functions
? Best practices for designing and architecting with DynamoDB

NEW QUESTION 26
A developer at a company needs to create a small application mat makes the same API call once each flay at a designated time. The company does not have infrastructure in the AWS Cloud yet, but the company wants to implement this functionality on AWS.
Which solution meets these requirements in the MOST operationally efficient manner?

A. Use a Kubermetes cron job that runs on Amazon Elastic Kubemetes Sen/ice (Amazon EKS)
B. Use an Amazon Linux crontab scheduled job that runs on Amazon EC2
C. Use an AWS Lambda function that is invoked by an Amazon EventBridge scheduled event.
D. Use an AWS Batch job that is submitted to an AWS Batch job queue.

Answer: C

Explanation:
This solution meets the requirements in the most operationally efficient manner because it does not require any infrastructure provisioning or management. The developer can create a Lambda function that makes the API call and configure an EventBridge rule that triggers the function once a day at a designated time. This is a serverless solution that scales automatically and only charges for the execution time of the function.
Reference: [Using AWS Lambda with Amazon EventBridge], [Schedule Expressions for Rules]

NEW QUESTION 30
A developer has written an AWS Lambda function. The function is CPU-bound. The developer wants to ensure that the function returns responses quickly.
How can the developer improve the function's performance?

A. Increase the function's CPU core count.
B. Increase the function's memory.
C. Increase the function's reserved concurrency.
D. Increase the function's timeout.

Answer: B

Explanation:
The amount of memory you allocate to your Lambda function also determines how much CPU and network bandwidth it gets. Increasing the memory size can improve the performance of CPU-bound functions by giving them more CPU power. The CPU allocation is proportional to the memory allocation, so a function with 1 GB of memory has twice the CPU power of a function with 512 MB of memory. Reference: AWS Lambda execution environment

NEW QUESTION 34
A company is planning to securely manage one-time fixed license keys in AWS. The company's development team needs to access the license keys in automaton scripts that run in Amazon EC2 instances and in AWS CloudFormation stacks.
Which solution will meet these requirements MOST cost-effectively?

A. Amazon S3 with encrypted files prefixed with “config”
B. AWS Secrets Manager secrets with a tag that is named SecretString
C. AWS Systems Manager Parameter Store SecureString parameters
D. CloudFormation NoEcho parameters

Answer: C

Explanation:
AWS Systems Manager Parameter Store is a service that provides secure, hierarchical storage for configuration data and secrets. Parameter Store supports SecureString parameters, which are encrypted using AWS Key Management Service (AWS KMS) keys. SecureString parameters can be used to store license keys in AWS and retrieve them securely from automation scripts that run in EC2 instances or CloudFormation stacks. Parameter Store is a cost-effective solution because it does not charge for storing parameters or API calls. Reference: Working with Systems Manager parameters

NEW QUESTION 35
A company hosts a client-side web application for one of its subsidiaries on Amazon S3. The web application can be accessed through Amazon CloudFront from https://www.example.com. After a successful rollout, the company wants to host three more client-side web applications for its remaining subsidiaries on three separate S3 buckets.
To achieve this goal, a developer moves all the common JavaScript files and web fonts to a central S3 bucket that serves the web applications. However, during testing, the developer notices that the browser blocks the JavaScript files and web fonts.
What should the developer do to prevent the browser from blocking the JavaScript files and web fonts?

A. Create four access points that allow access to the central S3 bucke
B. Assign an access point to each web application bucket.
C. Create a bucket policy that allows access to the central S3 bucke
D. Attach the bucket policy to the central S3 bucket.
E. Create a cross-origin resource sharing (CORS) configuration that allows access to the central S3 bucke
F. Add the CORS configuration to the central S3 bucket.
G. Create a Content-MD5 header that provides a message integrity check for the central S3 bucke
H. Insert the Content-MD5 header for each web application request.

Answer: C

Explanation:
This is a frequent trouble. Web applications cannot access the resources in other domains by default, except some exceptions. You must configure CORS on the resources to be accessed. https://docs.aws.amazon.com/AmazonS3/latest/userguide/cors.html

NEW QUESTION 37
A developer must analyze performance issues with production-distributed applications written as AWS Lambda functions. These distributed Lambda applications invoke other components that make up me applications. How should the developer identify and troubleshoot the root cause of the performance issues in production?

A. Add logging statements to the Lambda function
B. then use Amazon CloudWatch to view the logs.
C. Use AWS CloudTrail and then examine the logs.
D. Use AWS X-Ra
E. then examine the segments and errors.
F. Run Amazon inspector agents and then analyze performance.

Answer: C

Explanation:
This solution will meet the requirements by using AWS X-Ray to analyze and debug the performance issues with the distributed Lambda applications. AWS X-Ray is a service that collects data about requests that the applications serve, and provides tools to view, filter, and gain insights into that data. The developer can use AWS X-Ray to identify the root cause of the performance issues by examining the segments and errors that show the details of each request and the components that make up the applications. Option A is not optimal because it will use logging statements and Amazon CloudWatch, which may not provide enough information or visibility into the distributed applications. Option B is not
optimal because it will use AWS CloudTrail, which is a service that records API calls and events for AWS services, not application performance data. Option D is not optimal because it will use Amazon Inspector, which is a service that helps improve the security and compliance of applications on Amazon EC2 instances, not Lambda functions. References: AWS X-Ray, Using AWS X-Ray with AWS Lambda

NEW QUESTION 39
A company is migrating its PostgreSQL database into the AWS Cloud. The company wants to use a database that will secure and regularly rotate database credentials. The company wants a solution that does not require additional programming overhead.
Which solution will meet these requirements?

A. Mastered
B. Not Mastered

Answer: A

Explanation:
This solution meets the requirements because it uses a PostgreSQL- compatible database that can secure and regularly rotate database credentials without requiring additional programming overhead. Amazon Aurora PostgreSQL is a relational database service that is compatible with PostgreSQL and offers high

performance, availability, and scalability. AWS Secrets Manager is a service that helps you protect secrets needed to access your applications, services, and IT resources. You can store database credentials in AWS Secrets Manager and use them to access your Aurora PostgreSQL database. You can also enable automatic rotation of your secrets according to a schedule or an event. AWS Secrets Manager handles the complexity of rotating secrets for you, such as generating new passwords and updating your database with the new credentials. Using Amazon DynamoDB for the database will not meet the requirements because it is a NoSQL database that is not compatible with PostgreSQL. Using AWS Systems Manager Parameter Store for storing and rotating database credentials will require additional programming overhead to integrate with your database.
Reference: [What Is Amazon Aurora?], [What Is AWS Secrets Manager?]

NEW QUESTION 41
A developer is creating an AWS Lambda function that searches for items from an Amazon DynamoDB table that contains customer contact information- The DynamoDB table items have the customer's email_address as the partition key and additional properties such as customer_type, name, and job_tltle.
The Lambda function runs whenever a user types a new character into the customer_type text input The developer wants the search to return partial matches of all the email_address property of a particular customer_type The developer does not want to recreate the DynamoDB table.
What should the developer do to meet these requirements?

A. Add a global secondary index (GSI) to the DynamoDB table with customer_type as the partition key and email_address as the sort key Perform a query operation on the GSI by using the begvns_wth key condition expression With the email_address property
B. Add a global secondary index (GSI) to the DynamoDB table With ernail_address as the partition key and customer_type as the sort key Perform a query operation on the GSI by using the begins_wtth key condition expression With the email_address property.
C. Add a local secondary index (LSI) to the DynamoDB table With customer_type as the partition key and email_address as the sort key Perform a query operation on the LSI by using the begins_wlth key condition expression With the email_address property
D. Add a local secondary Index (LSI) to the DynamoDB table With job_tltle as the partition key and emad_address as the sort key Perform a query operation on the LSI by using the begins_wrth key condition expression With the email_address property

Answer: A

Explanation:
By adding a global secondary index (GSI) to the DynamoDB table with customer_type as the partition key and email_address as the sort key, the developer can perform a query operation on the GSI using the Begins_with key condition expression with the email_address property. This will return partial matches of all email_address properties of a specific customer_type.

NEW QUESTION 43
A developer accesses AWS CodeCommit over SSH. The SSH keys configured to access AWS CodeCommit are tied to a user with the following permissions:

```
{
"Version": "2012-10-17",
"Statement": [
  {
   "Effect": "Allow",
   "Action": [
    "codecommit:BatchGetRepositories",
    "codecommit:Get*",
    "codecommit:List*",
    "codecommit:GitPull"
   ],
   "Resource": "*"
  }
]
}
```

The developer needs to create/delete branches
Which specific IAM permissions need to be added based on the principle of least privilege?

A. "codecommit:CreateBranch"
"codecommit:DeleteBranch"

B. "codecommit:Put*"

C. "codecommit:Update*"

D. "codecommit:*"

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

Explanation:
This solution allows the developer to create and delete branches in AWS CodeCommit by granting the codecommit:CreateBranch and codecommit:DeleteBranch permissions. These are the minimum permissions required for this task, following the principle of least privilege. Option B grants too many permissions, such as codecommit:Put*, which allows the developer to create, update, or delete any resource in CodeCommit. Option C grants too few permissions, such as codecommit:Update*, which does not allow the developer to create or delete branches. Option D grants all permissions, such as codecommit:*, which is not secure or recommended.
Reference: [AWS CodeCommit Permissions Reference], [Create a Branch (AWS CLI)]

NEW QUESTION 45
A company is creating an application that processes csv files from Amazon S3 A developer has created an S3 bucket The developer has also created an AWS Lambda function to process the csv files from the S3 bucket
Which combination of steps will invoke the Lambda function when a csv file is uploaded to Amazon S3? (Select TWO.)

A. Create an Amazon EventBridge rule Configure the rule with a pattern to match the S3 object created event
B. Schedule an Amazon EventBridge rule to run a new Lambda function to scan the S3 bucket.
C. Add a trigger to the existing Lambda functio
D. Set the trigger type to EventBridge Select the Amazon EventBridge rule.
E. Create a new Lambda function to scan the S3 bucket for recently added S3 objects
F. Add S3 Lifecycle rules to invoke the existing Lambda function

Answer: AC

Explanation:
To invoke a Lambda function when a csv file is uploaded to Amazon S3, you can use Amazon EventBridge to create a rule that matches the S3 object created event. Then, you can add a trigger to the existing Lambda function and set the trigger type to EventBridge. This way, the Lambda function will be invoked whenever a new csv file is added to the S3 bucket. References
? Tutorial: Using an Amazon S3 trigger to invoke a Lambda function
? How to trigger my Lambda Function once the file is uploaded to s3 bucket
? Lambda Function to be invoked or triggered by S3(csv file upload …

NEW QUESTION 47
A company has a web application that runs on Amazon EC2 instances with a custom Amazon Machine Image (AMI) The company uses AWS CloudFormation to provision the application The application runs in the us-east-1 Region, and the company needs to deploy the application to the us-west-1 Region
An attempt to create the AWS CloudFormation stack in us-west-1 fails. An error message states that the AMI ID does not exist. A developer must resolve this error with a solution that uses the least amount of operational overhead
Which solution meets these requirements?

A. Change the AWS CloudFormation templates for us-east-1 and us-west-1 to use an AWS AM
B. Relaunch the stack for both Regions.
C. Copy the custom AMI from us-east-1 to us-west-1. Update the AWS CloudFormation template for us-west-1 to refer to AMI ID for the copied AMI Relaunch the stack
D. Build the custom AMI in us-west-1 Create a new AWS CloudFormation template to launch the stack in us-west-1 with the new AMI ID
E. Manually deploy the application outside AWS CloudFormation in us-west-1.

Answer: B

Explanation:
https://aws.amazon.com/blogs/aws/ec2-ami-copy-between-regions/

NEW QUESTION 50
A developer is creating a service that uses an Amazon S3 bucket for image uploads. The service will use an AWS Lambda function to create a thumbnail of each image Each time an image is uploaded the service needs to send an email notification and create the thumbnail The developer needs to configure the image

setup.
processing and email notifications.
Which solution will meet these requirements?

A. Create an Amazon Simple Notification Service (Amazon SNS) topic Configure S3 event notifications with a destination of the SNS topic Subscribe the Lambda function to the SNS topic Create an email notification subscription to the SNS topic
B. Create an Amazon Simple Notification Service (Amazon SNS) topi
C. Configure S3 event notifications with a destination of the SNS topi
D. Subscribe the Lambda function to the SNS topi
E. Create an Amazon Simple Queue Service (Amazon SQS) queue Subscribe the SQS queue to the SNS topic Create an email notification subscription to the SQS queue.
F. Create an Amazon Simple Queue Service (Amazon SQS) queue Configure S3 event notifications with a destination of the SQS queue Subscribe the Lambda function to the SQS queue Create an email notification subscription to the SQS queue.
G. Create an Amazon Simple Queue Service (Amazon SQS) queu
H. Send S3 event notifications to Amazon EventBridg
I. Create an EventBndge rule that runs the Lambda function when images are uploaded to the S3 bucket Create an EventBridge rule that sends notifications to the SQS queue Create an email notification subscription to the SQS queue

Answer: A

Explanation:
This solution will allow the developer to receive notifications for each image uploaded to the S3 bucket, and also create a thumbnail using the Lambda function. The SNS topic will serve as a trigger for both the Lambda function and the email notification subscription. When an image is uploaded, S3 will send a notification to the SNS topic, which will trigger the Lambda function to create the thumbnail and also send an email notification to the specified email address.

NEW QUESTION 52
A developer has an application that stores data in an Amazon S3 bucket. The application uses an HTTP API to store and retrieve objects. When the PutObject API operation adds objects to the S3 bucket the developer must encrypt these objects at rest by using server- side encryption with Amazon S3 managed keys (SSE-S3).
Which solution will meet this requirement?

A. Create an AWS Key Management Service (AWS KMS) ke
B. Assign the KMS key to the S3 bucket.
C. Set the x-amz-server-side-encryption header when invoking the PutObject API operation.
D. Provide the encryption key in the HTTP header of every request.
E. Apply TLS to encrypt the traffic to the S3 bucket.

Answer: B

Explanation:
Amazon S3 supports server-side encryption, which encrypts data at rest on the server that stores the data. One of the encryption options is SSE-S3, which uses keys managed by S3. To use SSE-S3, the x-amz-server-side-encryption header must be set to AES256 when invoking the PutObject API operation. This instructs S3 to encrypt the object data with SSE-S3 before saving it on disks in its data centers and decrypt it when it is downloaded. Reference: Protecting data using server-side encryption with Amazon S3-managed encryption keys (SSE-S3)

NEW QUESTION 54
A developer is trying get data from an Amazon DynamoDB table called demoman-table. The developer configured the AWS CLI to use a specific IAM use's credentials and ran the following command.

```
aws dynamodb get-item --table-name demcman-table --key '{"id": {"N":"1993"}}'
```

The command returned errors and no rows were returned. What is the MOST likely cause of these issues?

A. The command is incorrect; it should be rewritten to use put-item with a string argument
B. The developer needs to log a ticket with AWS Support to enable access to the demoman-table
C. Amazon DynamoOB cannot be accessed from the AWS CLI and needs to called via the REST API
D. The IAM user needs an associated policy with read access to demoman-table

Answer: D

Explanation:
This solution will most likely solve the issues because it will grant the IAM user the necessary permission to access the DynamoDB table using the AWS CLI command. The error message indicates that the IAM user does not have sufficient access rights to perform the scan operation on the table. Option A is not optimal because it will change the command to use put-item instead of scan, which will not achieve the desired result of getting data from the table. Option B is not optimal because it will involve contacting AWS Support, which may not be necessary or efficient for this issue. Option C is not optimal because it will state that DynamoDB cannot be accessed from the AWS CLI, which is incorrect as DynamoDB supports AWS CLI commands.
References: AWS CLI for DynamoDB, [IAM Policies for DynamoDB]

NEW QUESTION 57
A company built an online event platform For each event the company organizes quizzes and generates leaderboards that are based on the quiz scores. The company stores the leaderboard data in Amazon DynamoDB and retains the data for 30 days after an event is complete The company then uses a scheduled job to delete the old leaderboard data
The DynamoDB table is configured with a fixed write capacity. During the months when many events occur, the DynamoDB write API requests are throttled when the scheduled delete job runs.
A developer must create a long-term solution that deletes the old leaderboard data and optimizes write throughput
Which solution meets these requirements?

A. Configure a TTL attribute for the leaderboard data
B. Use DynamoDB Streams to schedule and delete the leaderboard data
C. Use AWS Step Functions to schedule and delete the leaderboard data.
D. Set a higher write capacity when the scheduled delete job runs

Answer: A

Explanation:
"deletes the item from your table without consuming any write throughput" https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/TTL.html

NEW QUESTION 61
A developer is building a serverless application by using AWS Serverless Application Model (AWS SAM) on multiple AWS Lambda functions.
When the application is deployed, the developer wants to shift 10% of the traffic to the new deployment of the application for the first 10 minutes after deployment.
If there are no issues, all traffic must switch over to the new version.
Which change to the AWS SAM template will meet these requirements?

A. Set the Deployment Preference Type to Canary10Percent10Minute
AutoPublishAlias property to the Lambda alias.
B. Set the
C. Set the Deployment Preference Type to LinearlOPercentEvery10Minute
D. Set AutoPublishAlias property to the Lambda alias.
E. Set the Deployment Preference Type to CanaryIOPercentIOMinute
F. Set the PreTraffic and PostTraffic properties to the Lambda alias.
G. Set the Deployment Preference Type to LinearlOPercentEveryIOMinute
H. Set PreTraffic and Post Traffic properties to the Lambda alias.

Answer: A

Explanation:
The AWS Serverless Application Model (AWS SAM) comes built-in with CodeDeploy to provide gradual AWS Lambda deployments1.
The DeploymentPreference property in AWS SAM allows you to specify the type of deployment that you want. The Canary10Percent10Minutes option means that 10 percent of your customer traffic is immediately shifted to your new version. After 10 minutes, all traffic is shifted to the new version1. The AutoPublishAlias property in AWS SAM allows AWS SAM to automatically create an alias that points to the updated version of the Lambda function1. Therefore, option A is correct.

NEW QUESTION 63
A company has an analytics application that uses an AWS Lambda function to process transaction data asynchronously A developer notices that asynchronous invocations of the Lambda function sometimes fail When failed Lambda function invocations occur, the developer wants to invoke a second Lambda function to handle errors and log details.
Which solution will meet these requirements?

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Configuring a Lambda function destination with a failure condition is the best solution for invoking a second Lambda function to handle errors and log details. A Lambda function destination is a resource that Lambda sends events to after a function is invoked. The developer can specify the destination type as Lambda function and the ARN of the error-handling Lambda function as the resource. The developer can also specify the failure condition, which means that the destination is invoked only when the initial Lambda function fails. The destination event will include the response from the initial function, the request ID, and the timestamp. The other solutions are either not feasible or not efficient. Enabling AWS X-Ray active tracing on the initial Lambda function will help to monitor and troubleshoot the function performance, but it will not automatically invoke the error-handling Lambda function. Configuring a Lambda function trigger with a failure condition is not a valid option, as triggers are used to invoke Lambda functions, not to send events from Lambda functions. Creating a status check alarm on the initial Lambda function will incur additional costs and complexity, and it will not capture the details of the failed
invocations. References
? Using AWS Lambda destinations
? Asynchronous invocation - AWS Lambda
? AWS Lambda Destinations: What They Are and Why to Use Them
? AWS Lambda Destinations: A Complete Guide | Dashbird

NEW QUESTION 68
A company's developer has deployed an application in AWS by using AWS CloudFormation The CloudFormation stack includes parameters in AWS Systems Manager Parameter Store that the application uses as configuration settings. The application can modify the parameter values
When the developer updated the stack to create additional resources with tags, the developer noted that the parameter values were reset and that the values ignored the latest changes made by the application. The developer needs to change the way the company deploys the CloudFormation stack. The developer also needs to avoid resetting the parameter values outside the stack.
Which solution will meet these requirements with the LEAST development effort?

A. Modify the CloudFormation stack to set the deletion policy to Retain for the Parameter Store parameters.
B. Create an Amazon DynamoDB table as a resource in the CloudFormation stack to hold configuration data for the application Migrate the parameters that the application is modifying from Parameter Store to the DynamoDB table
C. Create an Amazon RDS DB instance as a resource in the CloudFormation stac
D. Create a table in the database for parameter configuratio
E. Migrate the parameters that the application is modifying from Parameter Store to the configuration table
F. Modify the CloudFormation stack policy to deny updates on Parameter Store parameters

Answer: D

Explanation:
https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/protect-stack- resources.html#stack-policy-samples

NEW QUESTION 69

A company needs to set up secure database credentials for all its AWS Cloud resources. The company's resources include Amazon RDS DB instances Amazon DocumentDB clusters and Amazon Aurora DB instances. The company's security policy mandates that database credentials be encrypted at rest and rotated at a regular interval.
Which solution will meet these requirements MOST securely?

A. Set up IAM database authentication for token-based acces
B. Generate user tokens to provide centralized access to RDS DB instance
C. Amazon DocumentDB clusters and Aurora DB instances.
D. Create parameters for the database credentials in AWS Systems Manager Parameter Store Set the Type parameter to Secure Stin
E. Set up automatic rotation on the parameters.
F. Store the database access credentials as an encrypted Amazon S3 object in an S3 bucket Block all public access on the S3 bucke
automatic rotation on the encryption key.
G. Use S3 server-side encryption to set up
H. Create an AWS Lambda function by using the SecretsManagerRotationTemplate template in the AWS Secrets Manager consol
I. Create secrets for the database credentials in Secrets Manager Set up secrets rotation on a schedule.

Answer: D

Explanation:
This solution will meet the requirements by using AWS Secrets Manager, which is a service that helps protect secrets such as database credentials by encrypting them with AWS Key Management Service (AWS KMS) and enabling automatic rotation of secrets. The developer can create an AWS Lambda function by using the SecretsManagerRotationTemplate template in the AWS Secrets Manager console, which provides a sample code for rotating secrets for RDS DB instances, Amazon DocumentDB clusters, and Amazon Aurora DB instances. The developer can also create secrets for the database credentials in Secrets Manager, which encrypts them at rest and provides secure access to them. The developer can set up secrets rotation on a schedule, which changes the database credentials periodically according to a specified interval or event. Option A is not optimal because it will set up IAM database authentication for token-based access, which may not be compatible with all database engines and may require additional configuration and management of IAM roles or users. Option B is not optimal because it will create parameters for the database credentials in AWS Systems Manager Parameter Store, which does not support automatic rotation of secrets. Option C is not optimal because it will store the database access credentials as an encrypted Amazon S3 object in an S3 bucket, which may introduce additional costs and complexity for accessing and securing the data.
References: [AWS Secrets Manager], [Rotating Your AWS Secrets Manager Secrets]

NEW QUESTION 74
A company has an ecommerce application. To track product reviews, the company's development team uses an Amazon DynamoDB table.
Every record includes the following
• A Review ID a 16-digrt universally unique identifier (UUID)
• A Product ID and User ID 16 digit UUIDs that reference other tables
• A Product Rating on a scale of 1-5
• An optional comment from the user
The table partition key is the Review ID. The most performed query against the table is to find the 10 reviews with the highest rating for a given product.
Which index will provide the FASTEST response for this query"?

A. A global secondary index (GSl) with Product ID as the partition key and Product Rating as the sort key
B. A global secondary index (GSl) with Product ID as the partition key and Review ID as the sort key
C. A local secondary index (LSI) with Product ID as the partition key and Product Rating as the sort key
D. A local secondary index (LSI) with Review ID as the partition key and Product ID as the sort key

Answer: A

Explanation:
This solution allows the fastest response for the query because it enables the query to use a single partition key value (the Product ID) and a range of sort key values (the Product Rating) to find the matching items. A global secondary index (GSI) is an index that has a partition key and an optional sort key that are different from those on the base table. A GSI can be created at any time and can be queried or scanned independently of the base table. A local secondary index (LSI) is an index that has the same partition key as the base table, but a different sort key. An LSI can only be created when the base table is created and must be queried together with the base table partition key. Using a GSI with Product ID as the partition key and Review ID as the sort key will not allow the query to use a range of sort key values to find the highest ratings. Using an LSI with Product ID as the partition key and Product Rating as the sort key will not work because Product ID is not the partition key of the base table. Using an LSI with Review ID as the partition key and Product ID as the sort key will not allow the query to use a single partition key value to find the matching items.
Reference: [Global Secondary Indexes], [Querying]

NEW QUESTION 79
A company is migrating legacy internal applications to AWS. Leadership wants to rewrite the internal employee directory to use native AWS services. A developer needs to create a solution for storing employee contact details and high-resolution photos for use with the new application.
Which solution will enable the search and retrieval of each employee's individual details and high-resolution photos using AWS APIs?

A. Encode each employee's contact information and photos using Base64. Store the information in an Amazon DynamoDB table using a sort key.
B. Store each employee's contact information in an Amazon DynamoDB table along with the object keys for the photos stored in Amazon S3.
C. Use Amazon Cognito user pools to implement the employee directory in a fully managed
software-as-a-service (SaaS) method.
D. Store employee contact information in an Amazon RDS DB instance with the photos stored in Amazon Elastic File System (Amazon EFS).

Answer: B

Explanation:
Amazon DynamoDB is a fully managed NoSQL database service that provides fast and consistent performance with seamless scalability. The developer can store each employee’s contact information in a DynamoDB table along with the object keys for the photos stored in Amazon S3. Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. The developer can use AWS APIs to search and retrieve the employee details and photos from DynamoDB and S3.
References:
? [Amazon DynamoDB]
? [Amazon Simple Storage Service (S3)]

NEW QUESTION 80
A developer deployed an application to an Amazon EC2 instance The application needs to know the public IPv4 address of the instance
How can the application find this information?

A. Query the instance metadata from http./M69.254.169.254. latestmeta-data/.
B: Query the instance user data from http '169 254.169 254. latest/user-data/
C. Query the Amazon Machine Image (AMI) information from http://169.254.169.254/latest/meta-data/ami/.
D. Check the hosts file of the operating system

Answer: A

Explanation:
The instance metadata service provides information about the EC2 instance, including the public IPv4 address, which can be obtained by querying the endpoint http://169.254.169.254/latest/meta-data/public-ipv4. References
? Instance metadata and user data
? Get Public IP Address on current EC2 Instance
? Get the public ip address of your EC2 instance quickly

NEW QUESTION 85
A team of developed is using an AWS CodePipeline pipeline as a continuous integration and continuous delivery (CI/CD) mechanism for a web application. A developer has written unit tests to programmatically test the functionality of the application code. The unit tests produce a test report that shows the results of each individual check. The developer now wants to run these tests automatically during the CI/CD process.

A. Write a Git pre-commit hook that runs the test before every commi
B. Ensure that each developer who is working on the project has the pre-commit hook instated locall
C. Review the test report and resolve any issues before pushing changes to AWS CodeCommit.
D. Add a new stage to the pipelin
E. Use AWS CodeBuild as the provide
F. Add the new stage after the stage that deploys code revisions to the test environmen
G. Write a buildspec that fails the CodeBuild stage if any test does not pas
H. Use the test reports feature of Codebuild to integrate the report with the CodoBuild consol
I. View the test results in CodeBuild Resolve any issues.
J. Add a new stage to the pipelin
K. Use AWS CodeBuild at the provide
L. Add the new stage before the stage that deploys code revisions to the test environmen
M. Write a buildspec that fails the CodeBuild stage it any test does not pas
N. Use the test reports feature of CodeBuild to integrate the report with the CodeBuild consol
O. View the test results in codeBuild Resolve any issues.
P. Add a new stage to the pipelin
Q. Use Jenkins as the provide
R. Configure CodePipeline to use Jenkins to run the unit test
S. Write a Jenkinsfile that fails the stage if any test does not pas
T. Use the test report plugin for Jenkins to integrate the repot with the Jenkins dashboar
. View the test results in Jenkin
. Resolve any issues.

Answer: C

Explanation:
The solution that will meet the requirements is to add a new stage to the pipeline. Use AWS CodeBuild as the provider. Add the new stage before the stage that deploys code revisions to the test environment. Write a buildspec that fails the CodeBuild stage if any test does not pass. Use the test reports feature of CodeBuild to integrate the report with the CodeBuild console. View the test results in CodeBuild. Resolve any issues. This way, the developer can run the unit tests automatically during the CI/CD process and catch any bugs before deploying to the test environment. The developer can also use the test reports feature of CodeBuild to view and analyze the test results in a graphical interface. The other options either involve running the tests manually, running them after deployment, or using a different provider that requires additional configuration and integration.
Reference: Test reports for CodeBuild

NEW QUESTION 89
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. IntegrationLatency
C. CacheMissCount
D. Latency
E. Count

Answer: BD

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 developer wants to deploy a new version of an AWS Elastic Beanstalk application. During deployment, the application must maintain full capacity and avoid service interruption. Additionally, the developer must minimize the cost of additional resources that support the deployment.
Which deployment method should the developer use to meet these requirements?

A.

All at once
B. Rolling with additional batch
C. Blue/green
D. Immutable

Answer: D

Explanation:
The immutable deployment method is the best option for this scenario, because it meets the requirements of maintaining full capacity, avoiding service interruption, and minimizing the cost of additional resources.
The immutable deployment method creates a new set of instances in a separate Auto Scaling group and deploys the new version of the application to them. Then, it swaps the new instances with the old ones and terminates the old instances. This way, the application maintains full capacity during the deployment and avoids any downtime. The cost of additional resources is also minimized, because the new instances are only created for a short time and then replaced by the old ones.
The other deployment methods do not meet all the requirements:
? The all at once method deploys the new version to all instances simultaneously, which causes a short period of downtime and reduced capacity.
? The rolling with additional batch method deploys the new version in batches, but for the first batch it creates new instances instead of using the existing ones. This increases the cost of additional resources and reduces the capacity of the original environment.
? The blue/green method creates a new environment with a new set of instances and deploys the new version to them. Then, it swaps the URLs between the old and new environments. This method maintains full capacity and avoids service interruption, but it also increases the cost of additional resources significantly, because it duplicates the entire environment.

NEW QUESTION 96
A developer is building an application that gives users the ability to view bank account from multiple sources in a single dashboard. The developer has automated the process to retrieve API credentials for these sources. The process invokes an AWS Lambda function that is associated with an AWS CloudFormation cotton resource.
The developer wants a solution that will store the API credentials with minimal operational overhead.
When solution will meet these requirements?

A. Add an AWS Secrets Manager GenerateSecretString resource to the CloudFormation templat
B. Set the value to reference new credentials to the Cloudformation resource.
C. Use the AWS SDK ssm PutParameter operation in the Lambda function from the existing, custom resource to store the credentials as a paramete
D. Set the parameter value to reference the new credential
E. Set ma parameter type to SecureString.
F. Add an AWS Systems Manager Parameter Store resource to the CloudFormation templat
G. Set the CloudFormation resource value to reference the new credentials Set the resource NoEcho attribute to true.
H. Use the AWS SDK ssm PutParameter operation in the Lambda function from the existing custom resources to store the credentials as a paramete
I. Set the parameter value to reference the new credential
J. Set the parameter NoEcho attribute to true.

Answer: B

Explanation:
The solution that will meet the requirements is to use the AWS SDK ssm PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter type to SecureString. This way, the developer can store the API credentials with minimal operational overhead, as AWS Systems Manager Parameter Store provides secure and scalable storage for

configuration data. The SecureString parameter type encrypts the parameter value with AWS Key Management Service (AWS KMS). The other options either involve adding additional resources to the CloudFormation template, which increases complexity and cost, or do not encrypt the parameter value, which reduces security.
Reference: Creating Systems Manager parameters

NEW QUESTION 101
A company is planning to use AWS CodeDeploy to deploy an application to Amazon Elastic Container Service (Amazon ECS) During the deployment of a new version of the application, the company initially must expose only 10% of live traffic to the new version of the deployed application. Then, after 15 minutes elapse, the company must route all the remaining live traffic to the new version of the deployed application.
Which CodeDeploy predefined configuration will meet these requirements?

A. CodeDeployDefault ECSCanary10Percent15Minutes
B. CodeDeployDefault LambdaCanary10Percent5Minutes
C. CodeDeployDefault LambdaCanary10Percent15Minutes
D. CodeDeployDefault ECSLinear10PercentEvery1 Minutes

Answer: A

Explanation:
The predefined configuration "CodeDeployDefault.ECSCanary10Percent15Minutes" is designed for Amazon Elastic Container Service (Amazon ECS) deployments and meets the specified requirements. It will perform a canary deployment, which means it will initially route 10% of live traffic to the new version of the application, and then after 15 minutes elapse, it will automatically route all the remaining live traffic to the new version. This gradual deployment approach allows

the company to verify the health and performance of the new version with a small portion of traffic before fully deploying it to all users.

NEW QUESTION 104
An ecommerce company is using an AWS Lambda function behind Amazon API Gateway

as its application tier. To process orders during checkout, the application calls a POST API from the frontend. The POST API invokes the Lambda function asynchronously. In rare situations, the application has not processed orders. The Lambda application logs show no errors or failures.
What should a developer do to solve this problem?

A. Inspect the frontend logs for API failure
B. Call the POST API manually by using the requests from the log file.

C. Create and inspect the Lambda dead-letter queu
D. Troubleshoot the failed function
E. Reprocess the events.
F. Inspect the Lambda logs in Amazon CloudWatch for possible error
G. Fix the errors.
H. Make sure that caching is disabled for the POST API in API Gateway.

Answer: B

Explanation:
The solution that will solve this problem is to create and inspect the Lambda dead-letter queue. Troubleshoot the failed functions. Reprocess the events. This way, the developer can identify and fix any issues that caused the Lambda function to fail when invoked asynchronously by API Gateway. The developer can also reprocess any orders that were not processed due to failures. The other options either do not address the root cause of the problem, or do not help recover from failures.
Reference: Asynchronous invocation

NEW QUESTION 107
A developer is creating a mobile app that calls a backend service by using an Amazon API Gateway REST API. For integration testing during the development phase, the developer wants to simulate different backend responses without invoking the backend service.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an AWS Lambda functio
B. Use API Gateway proxy integration to return constant HTTP responses.
C. Create an Amazon EC2 instance that serves the backend REST API by using an AWS CloudFormation template.
D. Customize the API Gateway stage to select a response type based on the request.
E. Use a request mapping template to select the mock integration response.

Answer: D

Explanation:
Amazon API Gateway supports mock integration responses, which are predefined responses that can be returned without sending requests to a backend service. Mock integration responses can be used for testing or prototyping purposes, or for simulating different backend responses based on certain conditions. A request mapping template can be used to select a mock integration response based on an expression that evaluates some aspects of the request, such as headers, query strings, or body content. This solution does not require any additional resources or code changes and has the least operational overhead. Reference: Set up mock integrations for an API Gateway REST API
https://docs.aws.amazon.com/apigateway/latest/developerguide/how-to-mock- integration.html

NEW QUESTION 111
A company has an application that uses Amazon Cognito user pools as an identity provider. The company must secure access to user records. The company has set up multi-factor authentication (MFA). The company also wants to send a login activity notification by email every time a user logs in.
What is the MOST operationally efficient solution that meets this requirement?

A. Create an AWS Lambda function that uses Amazon Simple Email Service (Amazon SES) to send the email notificatio
B. Add an Amazon API Gateway API to invoke the functio
C. Call the API from the client side when login confirmation is received.
D. Create an AWS Lambda function that uses Amazon Simple Email Service (Amazon SES) to send the email notificatio
E. Add an Amazon Cognito post authentication Lambda trigger for the function.
F. Create an AWS Lambda function that uses Amazon Simple Email Service (Amazon SES) to send the email notificatio
G. Create an Amazon CloudWatch Logs log subscription filter to invoke the function based on the login status.
H. Configure Amazon Cognito to stream all logs to Amazon Kinesis Data Firehos
I. Create an AWS Lambda function to process the streamed logs and to send the email notification based on the login status of each user.

Answer: B

Explanation:
Amazon Cognito user pools support Lambda triggers, which are custom functions that can be executed at various stages of the user pool workflow. A post authentication Lambda trigger can be used to perform custom actions after a user is authenticated, such as sending an email notification. Amazon SES is a cloud-based email sending service that can be used to send transactional or marketing emails. A Lambda function can use the Amazon SES API to send an email to the user's email address after the user logs in successfully. Reference: Post authentication Lambda trigger

NEW QUESTION 115
A developer is building an application that uses AWS API Gateway APIs. AWS Lambda function, and AWS Dynamic DB tables. The developer uses the AWS Serverless Application Model (AWS SAM) to build and run serverless applications on AWS. Each time the developer pushes of changes for only to the Lambda functions, all the artifacts in the application are rebuilt.
The developer wants to implement AWS SAM Accelerate by running a command to only redeploy the Lambda functions that have changed.
Which command will meet these requirements?

A. sam deploy -force-upload
B. sam deploy -no-execute-changeset
C. sam package
D. sam sync -watch

Answer: D

Explanation:
The command that will meet the requirements is sam sync -watch. This command enables AWS SAM Accelerate mode, which allows the developer to only redeploy the Lambda functions that have changed. The -watch flag enables file watching, which automatically detects changes in the source code and triggers a redeployment. The other commands either do not enable AWS SAM Accelerate mode, or do not redeploy the Lambda functions automatically.
Reference: AWS SAM Accelerate

NEW QUESTION 116
A development team wants to build a continuous integration/continuous delivery (CI/CD) pipeline. The team is using AWS CodePipeline to automate the code build and deployment. The team wants to store the program code to prepare for the CI/CD pipeline.
Which AWS service should the team use to store the program code?

A. AWS CodeDeploy
B. AWS CodeArtifact
C. AWS CodeCommit
D. Amazon CodeGuru

Answer: C

Explanation:
AWS CodeCommit is a service that provides fully managed source control for hosting secure and scalable private Git repositories. The development team can use CodeCommit to store the program code and prepare for the CI/CD pipeline. CodeCommit integrates with other AWS services such as CodePipeline, CodeBuild, and CodeDeploy to automate the code build and deployment process.
References:
? [What Is AWS CodeCommit? - AWS CodeCommit]
? [AWS CodePipeline - AWS CodeCommit]

NEW QUESTION 121
A mobile app stores blog posts in an Amazon DynacnoDB table Millions of posts are added every day and each post represents a single item in the table. The mobile app requires only recent posts. Any post that is older than 48 hours can be removed.
What is the MOST cost-effective way to delete posts that are older man 48 hours?

A. For each item add a new attribute of type String that has a timestamp that is set to the blog post creation tim
B. Create a script to find old posts with a table scan and remove posts that are order than 48 hours by using the Balch Write Item API operatio
C. Schedule a cron job on an Amazon EC2 instance once an hour to start the script.
D. For each item add a new attribute of typ
E. String that has a timestamp that its set to the blog post creation tim
F. Create a script to find old posts with a table scan and remove posts that are Oder than 48 hours by using the Batch Write item API operatin
G. Place the script in a container imag
H. Schedule an Amazon Elastic Container Service (Amazon ECS) task on AWS Far gate that invokes the container every 5 minutes.
I. For each item, add a new attribute of type Date that has a timestamp that is set to 48 hours after the blog post creation tim
J. Create a global secondary index (GSI) that uses the new attribute as a sort ke
K. Create an AWS Lambda function that references the GSI and removes expired items by using the Batch Write item API operation Schedule me function with an Amazon CloudWatch event every minute.
L. For each item add a new attribute of typ
M. Number that has timestamp that is set to 48 hours after the blog pos
N. creation time Configure the DynamoDB table with a TTL that references the new attribute.

Answer: D

Explanation:
This solution will meet the requirements by using the Time to Live (TTL) feature of DynamoDB, which enables automatically deleting items from a table after a certain time period. The developer can add a new attribute of type Number that has a timestamp that is set to 48 hours after the blog post creation time, which represents the expiration time of the item. The developer can configure the DynamoDB table with a TTL that references the new attribute, which instructs DynamoDB to delete the item when the current time is greater than or equal to the expiration time. This solution is also cost- effective as it does not incur any additional charges for deleting expired items. Option A is not optimal because it will create a script to find and remove old posts with a table scan and a batch write item API operation, which may consume more read and write capacity units and incur more costs. Option B is not optimal because it will use Amazon Elastic Container Service (Amazon ECS) and AWS Fargate to run the script, which may introduce additional costs and complexity for managing and scaling containers. Option C is not optimal because it will create a global secondary index (GSI) that uses the expiration time as a sort key, which may consume more storage space and incur more costs.
References: Time To Live, Managing DynamoDB Time To Live (TTL)

NEW QUESTION 123
A company is using AWS CloudFormation to deploy a two-tier application. The application will use Amazon RDS as its backend database. The company wants a solution that will randomly generate the database password during deployment. The solution also must automatically rotate the database password without requiring changes to the application.
What is the MOST operationally efficient solution that meets these requirements'?

A. Use an AWS Lambda function as a CloudFormation custom resource to generate and rotate the password.
B. Use an AWS Systems Manager Parameter Store resource with the SecureString data type to generate and rotate the password.
C. Use a cron daemon on the application s host to generate and rotate the password.
D. Use an AWS Secrets Manager resource to generate and rotate the password.

Answer: D

Explanation:
This solution will meet the requirements by using AWS Secrets Manager, which is a service that helps protect secrets such as database credentials by encrypting them with AWS Key Management Service (AWS KMS) and enabling automatic rotation of secrets. The developer can use an AWS Secrets Manager resource in AWS CloudFormation template, which enables creating and managing secrets as part of a CloudFormation stack. The developer can use an AWS::SecretsManager::Secret resource type to generate and rotate the password for accessing RDS database during deployment. The developer can also specify a RotationSchedule property for the secret resource, which defines how often to rotate the secret and which Lambda function to use for rotation logic. Option A is not optimal because it will use an AWS Lambda function as a CloudFormation custom resource, which may introduce additional complexity and overhead for creating and managing a custom resource and implementing rotation logic. Option B is not optimal because it will use an AWS Systems Manager Parameter Store resource with the SecureString data type, which does not support automatic rotation of secrets. Option C is not optimal because it will use a cron daemon on the application's host to generate and rotate the password, which may incur more costs and require more maintenance for running and securing a host.

References: [AWS Secrets Manager], [AWS::SecretsManager::Secret]

NEW QUESTION 124
A developer needs to migrate an online retail application to AWS to handle an anticipated increase in traffic. The application currently runs on two servers: one server for the web application and another server for the database. The web server renders webpages and manages session state in memory. The database server hosts a MySQL database that contains order details. When traffic to the application is heavy, the memory usage for the web server approaches 100% and the application slows down considerably.
The developer has found that most of the memory increase and performance decrease is related to the load of managing additional user sessions. For the web server migration, the developer will use Amazon EC2 instances with an Auto Scaling group behind an Application Load Balancer.
Which additional set of changes should the developer make to the application to improve the application's performance?

A. Use an EC2 instance to host the MySQL databas
B. Store the session data and the application data in the MySQL database.
C. Use Amazon ElastiCache for Memcached to store and manage the session dat
D. Use an Amazon RDS for MySQL DB instance to store the application data.
E. Use Amazon ElastiCache for Memcached to store and manage the session data and the application data.
F. Use the EC2 instance store to manage the session dat
G. Use an Amazon RDS for MySQL DB instance to store the application data.

Answer: B

Explanation:
Using Amazon ElastiCache for Memcached to store and manage the session data will reduce the memory load and improve the performance of the web server. Using Amazon RDS for MySQL DB instance to store the application data will provide a scalable, reliable, and managed database service. Option A is not optimal because it does not address the memory issue of the web server. Option C is not optimal because it does not provide a persistent storage for the application data. Option D is not optimal because it does not provide a high availability and durability for the session data.
References: Amazon ElastiCache, Amazon RDS

NEW QUESTION 125
A developer is testing a new file storage application that uses an Amazon CloudFront distribution to serve content from an Amazon S3 bucket. The distribution accesses the S3 bucket by using an origin access identity (OAI). The S3 bucket's permissions explicitly deny access to all other users. The application prompts users to authenticate on a login page and then uses signed cookies to allow users to access their personal storage directories. The developer has configured the distribution to use its default cache behavior with restricted viewer access and has set the origin to point to the S3 bucket. However, when the developer tries to navigate to the login page, the developer receives a 403 Forbidden error.
The developer needs to implement a solution to allow unauthenticated access to the login page. The solution also must keep all private content secure.
Which solution will meet these requirements?

A. Add a second cache behavior to the distribution with the same origin as the default cache behavio
B. Set the path pattern for the second cache behavior to the path of the login page, and make viewer access unrestricte
C. Keep the default cache behavior's settings unchanged.
D. Add a second cache behavior to the distribution with the same origin as the default cache behavio
E. Set the path pattern for the second cache behavior to *, and make viewer access restricte
F. Change the default cache behavior's path pattern to the path of the login page, and make viewer access unrestricted.
G. Add a second origin as a failover origin to the default cache behavio
H. Point the failover origin to the S3 bucke
I. Set the path pattern for the primary origin to *, and make viewer access restricte
J. Set the path pattern for the failover origin to the path of the login page, and make viewer access unrestricted.
K. Add a bucket policy to the S3 bucket to allow read acces
L. Set the resource on the policy to the Amazon Resource Name (ARN) of the login page object in the S3 bucke
M. Add a CloudFront function to the default cache behavior to redirect unauthorized requests to the login page's S3 URL.

Answer: A

Explanation:
The solution that will meet the requirements is to add a second cache behavior to the distribution with the same origin as the default cache behavior. Set the path pattern for the second cache behavior to the path of the login page, and make viewer access unrestricted. Keep the default cache behavior’s settings unchanged. This way, the login page can be accessed without authentication, while all other content remains secure and requires signed cookies. The other options either do not allow unauthenticated access to the login page, or expose private content to unauthorized users.
Reference: Restricting Access to Amazon S3 Content by Using an Origin Access Identity

NEW QUESTION 127
An Amazon Kinesis Data Firehose delivery stream is receiving customer data that contains personally identifiable information. A developer needs to remove pattern-based customer identifiers from the data and store the modified data in an Amazon S3 bucket.
What should the developer do to meet these requirements?

A. Implement Kinesis Data Firehose data transformation as an AWS Lambda functio
B. Configure the function to remove the customer identifier
C. Set an Amazon S3 bucket as the destination of the delivery stream.
D. Launch an Amazon EC2 instanc
E. Set the EC2 instance as the destination of the delivery strea
F. Run an application on the EC2 instance to remove the customer identifier
G. Store the transformed data in an Amazon S3 bucket.
H. Create an Amazon OpenSearch Service instanc
I. Set the OpenSearch Service instance as the destination of the delivery strea
J. Use search and replace to remove the customer identifier
K. Export the data to an Amazon S3 bucket.
L. Create an AWS Step Functions workflow to remove the customer identifier
M. As the last step in the workflow, store the transformed data in an Amazon S3 bucke
N. Set the workflow as the destination of the delivery stream.

Answer: A

Explanation:
Amazon Kinesis Data Firehose is a service that delivers real-time streaming data to destinations such as Amazon S3, Amazon Redshift, Amazon OpenSearch Service, and Amazon Kinesis Data Analytics. The developer can implement Kinesis Data Firehose data transformation as an AWS Lambda function. The function can remove pattern-based customer identifiers from the data and return the modified data to Kinesis Data Firehose. The developer can set an Amazon S3 bucket as the destination of the delivery stream. References:
? [What Is Amazon Kinesis Data Firehose? - Amazon Kinesis Data Firehose]
? [Data Transformation - Amazon Kinesis Data Firehose]

NEW QUESTION 129
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 applicatio
B. Update the Auto Scaling group launch configuration to use the AMI.
C. 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 applicatio
D. Update the Auto Scaling group launch configuration to use the AMI.
E. Set up AWS CodeDeploy to deploy the most recent version of the application at runtime.
F. Set up AWS CodePipeline to deploy the most recent version of the application at runtime.
G. Remove any commands that perform operating system patching from the UserData script.

Answer: BE

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 131
A developer is building a microservices-based application by using Python on AWS and several AWS services The developer must use AWS X-Ray The developer views the service map by using the console to view the service dependencies. During testing, the developer notices that some services are missing from the service map
What can the developer do to ensure that all services appear in the X-Ray service map?

A. Modify the X-Ray Python agent configuration in each service to increase the sampling rate
B. Instrument the application by using the X-Ray SDK for Pytho
C. Install the X-Ray SDK for all the services that the application uses
D. Enable X-Ray data aggregation in Amazon CloudWatch Logs for all the services that the application uses
E. Increase the X-Ray service map timeout value in the X-Ray console

Answer: B

Explanation:
The X-Ray SDK for Python provides libraries and tools for instrumenting Python applications that use AWS services and other AWS X-Ray integrations. By installing the X-Ray SDK for all the services that the application uses, the developer can ensure that all the service dependencies are captured and displayed in the X-Ray service map. The other options are not relevant or effective for this scenario. References
? AWS X-Ray SDK for Python
? Instrumenting a Python Application

NEW QUESTION 133
A developer maintains applications that store several secrets in AWS Secrets Manager. The applications use secrets that have changed over time. The developer needs to identify required secrets that are still in use. The developer does not want to cause any application downtime.
What should the developer do to meet these requirements?

A. Configure an AWS CloudTrail log file delivery to an Amazon S3 bucke
B. Create an Amazon CloudWatch alarm for the GetSecretValu
C. Secrets Manager API operation requests
D. Create a secrets manager-secret-unused AWS Config managed rul
E. Create an Amazon EventBridge rule to Initiate notification when the AWS Config managed rule is met.
F. Deactivate the applications secrets and monitor the applications error logs temporarily.
G. Configure AWS X-Ray for the application
H. Create a sampling rule lo match the

GetSecretValue Secrets Manager API operation requests.

Answer: B

Explanation:
This solution will meet the requirements by using AWS Config to monitor and evaluate whether Secrets Manager secrets are unused or have been deleted, based on specified time periods. The secrets manager-secret-unused managed rule is a predefined rule that checks whether Secrets Manager secrets have been rotated within a specified number of days or have been deleted within a specified number of days after last accessed date. The Amazon EventBridge rule will trigger a notification when the AWS Config managed rule is met, alerting the developer about unused secrets that can be removed without causing application downtime. Option A is not optimal because it will use AWS CloudTrail log file delivery to an Amazon S3 bucket, which will incur additional costs and complexity for storing and analyzing log files that may not contain relevant information about secret usage. Option C is not optimal because it will deactivate the application secrets and monitor the application error logs temporarily, which will cause application downtime and potential data loss. Option D is not optimal because it will use AWS X-Ray to trace secret usage, which will introduce additional overhead and latency for instrumenting and sampling requests that may not be related to secret usage.
References: [AWS Config Managed Rules], [Amazon EventBridge]

NEW QUESTION 138
A developer is writing a serverless application that requires an AWS Lambda function to be invoked every 10 minutes.
What is an automated and serverless way to invoke the function?

A. Deploy an Amazon EC2 instance based on Linux, and edit its /etc/confab file by adding a command to periodically invoke the lambda function
B. Configure an environment variable named PERIOD for the Lambda functio
C. Set the value to 600.
D. Create an Amazon EventBridge rule that runs on a regular schedule to invoke the Lambda function.
E. Create an Amazon Simple Notification Service (Amazon SNS) topic that has a subscription to the Lambda function with a 600-second timer.

Answer: C

Explanation:
The solution that will meet the requirements is to create an Amazon EventBridge rule that runs on a regular schedule to invoke the Lambda function. This way, the developer can use an automated and serverless way to invoke the function every 10 minutes. The developer can also use a cron expression or a rate expression to specify the schedule for the rule. The other options either involve using an Amazon EC2 instance, which is not serverless, or using environment variables or query parameters, which do not trigger the function.
Reference: Schedule AWS Lambda functions using EventBridge

NEW QUESTION 142
A company has an Amazon S3 bucket containing premier content that it intends to make available to only paid subscribers of its website. The S3 bucket currently has default permissions of all objects being private to prevent inadvertent exposure of the premier content to non-paying website visitors.
How can the company Limit the ability to download a premier content file in the S3 Bucket to paid subscribers only?

A. Apply a bucket policy that allows anonymous users to download the content from the S3 bucket.
B. Generate a pre-signed object URL for the premier content file when a pad subscriber requests a download.
C. Add a Docket policy that requires multi-factor authentication for request to access the S3 bucket objects.
D. Enable server-side encryption on the S3 bucket for data protection against the non- paying website visitors.

Answer: B

Explanation:
This solution will limit the ability to download a premier content file in the S3 bucket to paid subscribers only because it uses a pre-signed object URL that grants temporary access to an S3 object for a specified duration. The pre-signed object URL can be generated by the company's website when a paid subscriber requests a download, and can be verified by Amazon S3 using the signature in the URL. Option A is not optimal because it will allow anyone to download the content from the S3 bucket without verifying their subscription status. Option C is not optimal because it will require additional steps and costs to configure multi-factor authentication for accessing the S3 bucket objects, which may not be feasible or user-friendly for paid subscribers. Option D is not optimal because it will not prevent non-paying website visitors from accessing the S3 bucket objects, but only encrypt them at rest.
References: Share an Object with Others, [Using Amazon S3 Pre-Signed URLs]

NEW QUESTION 143

A developer is modifying an existing AWS Lambda function White checking the code the developer notices hardcoded parameter various for an Amazon RDS for SQL Server user name password database host and port. There also are hardcoded parameter values for an Amazon DynamoOB table. an Amazon S3 bucket, and an Amazon Simple Notification Service (Amazon SNS) topic.
The developer wants to securely store the parameter values outside the code m an encrypted format and wants to turn on rotation for the credentials. The developer also wants to be able to reuse the parameter values from other applications and to update the parameter values without modifying code.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an RDS database secret in AWS Secrets Manage

B. Set the user name password, database, host and por
C. Turn on secret rotatio
D. Create encrypted Lambda environment variables for the DynamoDB table, S3 bucket and SNS topic.
E. Create an RDS database secret in AWS Secrets Manage
F. Set the user name password, database, host and por
G. Turn on secret rotatio
H. Create Secure String parameters in AWS Systems Manager Parameter Store for the DynamoDB table, S3 bucket and SNS topic.
I. Create RDS database parameters in AWS Systems Manager Paramete
J. Store for the user name password, database, host and por
K. Create encrypted Lambda environment variables for me DynamoDB table, S3 bucket, and SNS topi
L. Create a Lambda function and set the logic for the credentials rotation task Schedule the credentials rotation task in Amazon EventBridge.
M. Create RDS database parameters in AWS Systems Manager Paramete
N. Store for the user name password database, host, and por
O. Store the DynamoDB tabl
P. S3 bucket, and SNS topic in Amazon S3 Create a Lambda function and set the logic for the credentials rotation Invoke the Lambda function on a schedule.

Answer: B

Explanation:
This solution will meet the requirements by using AWS Secrets Manager and AWS Systems Manager Parameter Store to securely store the parameter values outside the code in an encrypted format. AWS Secrets Manager is a service that helps protect secrets such as database credentials by encrypting them with AWS Key Management Service (AWS KMS) and enabling automatic rotation of secrets. The developer can create an RDS database secret in AWS Secrets Manager and set the user name, password, database, host, and port for accessing the RDS database. The developer can also turn on secret rotation, which will change the database credentials periodically according to a specified schedule or event. AWS Systems Manager Parameter Store is a service that provides secure and scalable storage for configuration data and secrets. The developer can create Secure String parameters in AWS Systems Manager Parameter Store for the DynamoDB table, S3 bucket, and SNS topic, which will encrypt them with AWS KMS. The developer can also reuse the parameter values from other applications and update them without modifying code. Option A is not optimal because it will create encrypted Lambda environment variables for the DynamoDB table, S3 bucket, and SNS topic, which may not be reusable or updatable without modifying code. Option C is not optimal because it will create RDS database parameters in AWS Systems Manager Parameter Store, which does not support automatic rotation of secrets. Option D is not optimal because it will store the DynamoDB table, S3 bucket, and SNS topic in Amazon S3, which may introduce additional costs and complexity for accessing configuration data.
References: AWS Secrets Manager, [AWS Systems Manager Parameter Store]

NEW QUESTION 145
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