DVA-C02^{Q&As}

AWS Certified Developer - Associate

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QUESTION 1

A developer is working on a Python application that runs on Amazon EC2 instances. The developer wants to enable tracing of application requests to debug performance issues in the code.

Which combination of actions should the developer take to achieve this goal? (Choose two.)

A. Install the Amazon CloudWatch agent on the EC2 instances.

B. Install the AWS X-Ray daemon on the EC2 instances.

C. Configure the application to write JSON-formatted logs to /var/log/cloudwatch.

D. Configure the application to write trace data to /var/log/xray.

E. Install and configure the AWS X-Ray SDK for Python in the application.

Correct Answer: BE

QUESTION 2

A company uses an AWS Lambda function that reads messages from an Amazon Simple Queue Service (Amazon SQS) standard queue. The Lambda function makes an HTTP call to a third-party API for each message. The company wants to ensure that the Lambda function does not overwhelm the third-party API with more than two concurrent requests.

Which solution will meet these requirements?

A. Configure a provisioned concurrency of two on the Lambda function.

B. Configure a batch size of two on the Amazon SQS event source mapping for the Lambda function.

C. Configure Lambda event filtering to process two messages from Amazon SQS at every invocations.

D. Configure a maximum concurrency of two on the Amazon SQS event source mapping for the Lambda function.

Correct Answer: B

QUESTION 3

A developer needs to modify an application architecture to meet new functional requirements. Application data is stored in Amazon DynamoDB and processed for analysis in a nightly batch. The system analysts do not want to wait until the next day to view the processed data and have asked to have it available in near-real time.

Which application architecture pattern would enable the data to be processed as it is received?

A. Event driven

B. Client-server driven

C. Fan-out driven

D. Schedule driven

Correct Answer: A

QUESTION 4

A developer is creating an AWS CloudFormation template to deploy Amazon EC2 instances across multiple AWS accounts. The developer must choose the EC2 instances from a list of approved instance types.

How can the developer incorporate the list of approved instance types in the CloudFormation template?

A. Create a separate CloudFormation template for each EC2 instance type in the list.

B. In the Resources section of the CloudFormation template, create resources for each EC2 instance type in the list.

C. In the CloudFormation template, create a separate parameter for each EC2 instance type in the list.

D. In the CloudFormation template, create a parameter with the list of EC2 instance types as AllowedValues.

Correct Answer: D

https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/parameters-section-structure.html

Parameters:

InstanceTypeParameter:

Type: String

Default: t2.micro

AllowedValues:

-t2.micro

-m1.small

-m1.large

Description: Enter t2.micro, m1.small, or m1.large. Default is t2.micro.

QUESTION 5

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.LambdaCanary10Percentl15Minutes

D. CodeDeployDefault.ECSLinear10PercentEvery1Minutes

Correct Answer: A

https://docs.aws.amazon.com/codedeploy/latest/userguide/deployment-configurations.html

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QUESTION 6

A developer is creating an AWS Lambda function that will connect to an Amazon RDS for MySQL instance. The developer wants to store the database credentials. The database credentials need to be encrypted and the database password needs to be automatically rotated.

Which solution will meet these requirements?

A. Store the database credentials as environment variables for the Lambda function. Set the environment variables to rotate automatically.

B. Store the database credentials in AWS Secrets Manager. Set up managed rotation on the database credentials.

C. Store the database credentials in AWS Systems Manager Parameter Store as secure string parameters. Set up managed rotation on the parameters.

D. Store the database credentials in the X-Amz-Security-Token parameter. Set up managed rotation on the parameter.

Correct Answer: B

QUESTION 7

A developer is using AWS Step Functions to automate a workflow The workflow defines each step as an AWS Lambda function task The developer notices that runs of the Step Functions state machine fail in the GetResource task with either an UlegalArgumentException error or a TooManyRequestsException error

The developer wants the state machine to stop running when the state machine encounters an UlegalArgumentException error. The state machine needs to retry the GetResource task one additional time after 10 seconds if the state machine encounters a TooManyRequestsException error. If the second attempt fails, the developer wants the state machine to stop running.

How can the developer implement the Lambda retry functionality without adding unnecessary complexity to the state machine\\'?

A. Add a Delay task after the GetResource task. Add a catcher to the GetResource task. Configure the catcher with an error type of TooManyRequestsException. Configure the next step to be the Delay task Configure the Delay task to wait for an interval of 10 seconds Configure the next step to be the GetResource task.

B. Add a catcher to the GetResource task Configure the catcher with an error type of TooManyRequestsException. an interval of 10 seconds, and a maximum attempts value of 1.

Configure the next step to be the GetResource task.

C. Add a retrier to the GetResource task Configure the retrier with an error type of TooManyRequestsException, an interval of 10 seconds, and a maximum attempts value of 1.

D. Duplicate the GetResource task Rename the new GetResource task to TryAgain Add a catcher to the original GetResource task Configure the catcher with an error type of TooManyRequestsException. Configure the next step to be TryAgain.

Correct Answer: C

The best way to implement the Lambda retry functionality is to use the Retry field in the state definition of the GetResource task. The Retry field allows the developer to specify an array of retriers, each with an error type, an interval, and a maximum number of attempts. By setting the error type to TooManyRequestsException, the interval to 10 seconds, and the maximum attempts to 1, the developer can achieve the desired behavior of retrying the GetResource task once after 10 seconds if it encounters a TooManyRequestsException error. If the retry fails, the state machine will stop running. If the GetResource task encounters an UlegalArgumentException error, the state machine will also stop running without retrying, as this error type is not specified in the Retry field. References Error handling in Step Functions Handling Errors, Retries, and adding Alerting to Step Function State Machine Executions The Jitter Strategy for Step Functions Error Retries on the New Workflow Studio

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QUESTION 8

An online food company provides an Amazon API Gateway HTTP API to receive orders for partners. The API is integrated with an AWS Lambda function. The Lambda function stores the orders in an Amazon DynamoDB table.

The company expects to onboard additional partners. Some of the partners require additional Lambda functions to receive orders. The company has created an Amazon S3 bucket. The company needs to store all orders and updates in the

S3 bucket for future analysis.

How can the developer ensure that all orders and updates are stored to Amazon S3 with the LEAST development effort?

A. Create a new Lambda function and a new API Gateway API endpoint. Configure the new Lambda function to write to the S3 bucket. Modify the original Lambda function to post updates to the new API endpoint.

B. Use Amazon Kinesis Data Streams to create a new data stream. Modify the Lambda function to publish orders to the data stream. Configure the data stream to write to the S3 bucket.

C. Enable DynamoDB Streams on the DynamoDB table. Create a new Lambda function. Associate the stream\\'s Amazon Resource Name (ARN) with the Lambda function. Configure the Lambda function to write to the S3 bucket as records appear in the table\\'s stream.

D. Modify the Lambda function to publish to a new Amazon Simple Notification Service (Amazon SNS) topic as the Lambda function receives orders. Subscribe a new Lambda function to the topic. Configure the new Lambda function to write to the S3 bucket as updates come through the topic.

Correct Answer: C

QUESTION 9

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

The developer must implement a solution to decrease the time that elapses before an EC2 instance becomes available. The solution must make the most recent version of the application available at all times and must apply all available

security updates. The solution also must minimize the number of images that are created. The images must be validated. Which combination of steps should the developer take to meet these requirements? (Choose two.)

A. Use EC2 Image Builder to create an Amazon Machine Image (AMI). Install all the patches and agents that are needed to manage and run the application. Update the Auto Scaling group launch configuration to use the AMI.

B. Use EC2 Image Builder to create an Amazon Machine Image (AMI). Install the latest version of the application and all the patches and agents that are needed to manage and run the application. Update the Auto Scaling group launch configuration to use the AMI.

C. Set up AWS CodeDeploy to deploy the most recent version of the application at runtime.

D. Set up AWS CodePipeline to deploy the most recent version of the application at runtime.

E. Remove any commands that perform operating system patching from the UserData script.

Correct Answer: AC

QUESTION 10

A developer creates an AWS Lambda function that retrieves and groups data from several public API endpoints. The Lambda function has been updated and configured to connect to the private subnet of a VPC. An internet gateway is

attached to the VPC. The VPC uses the default network ACL and security group configurations.

The developer finds that the Lambda function can no longer access the public API. The developer has ensured that the public API is accessible, but the Lambda function cannot connect to the API

How should the developer fix the connection issue?

A. Ensure that the network ACL allows outbound traffic to the public internet.

B. Ensure that the security group allows outbound traffic to the public internet.

C. Ensure that outbound traffic from the private subnet is routed to a public NAT gateway.

D. Ensure that outbound traffic from the private subnet is routed to a new internet gateway.

Correct Answer: C

QUESTION 11

A developer is building a new application that will be deployed on AWS. The developer has created an AWS CodeCommit repository for the application. The developer has initialized a new project for the application by invoking the AWS Cloud Development Kit (AWS CDK) cdk init command.

The developer must write unit tests for the infrastructure as code (IaC) templates that the AWS CDK generates. The developer also must run a validation tool across all constructs in the CDK application to ensure that critical security configurations are activated.

Which combination of actions will meet these requirements with the LEAST development overhead? (Choose two.)

A. Use a unit testing framework to write custom unit tests against the cdk.out file that the AWS CDK generates. Run the

unit tests in a continuous integration and continuous delivery (CI/CD) pipeline that is invoked after any commit to the repository.

B. Use the CDK assertions module to integrate unit tests with the application. Run the unit tests in a continuous integration and continuous delivery (CI/CD) pipeline that is invoked after any commit to the repository.

C. Use the CDK runtime context to set key-value pairs that must be present in the cdk.out file that the AWS CDK generates. Fail the stack synthesis if any violations are present.

D. Write a script that searches the application for specific key configuration strings. Configure the script to produce a report of any security violations.

E. Use the CDK Aspects class to create custom rules to apply to the CDK application. Fall the stack synthesis if any violations are present.

Correct Answer: BE

QUESTION 12

A company runs a serverless application on AWS. The application includes an AWS Lambda function. The Lambda function processes data and stores the data in an Amazon RDS for PostgreSQL database. A developer created a user credentials in the database for the application.

The developer needs to use AWS Secrets Manager to manage the user credentials. The password must to be rotated on a regular basis. The solution needs to ensure that there is high availability and no downtime for the application during secret rotation.

What should the developer do to meet these requirements?

A. Configure managed rotation with the single user rotation strategy.

B. Configure managed rotation with the alternating users rotation strategy.

C. Configure automatic rotation with the single user rotation strategy.

D. Configure automatic rotation with the alternating users rotation strategy.

Correct Answer: D

QUESTION 13

A developer is creating a database of products. Queries for frequently accessed products must have retrieval times of microseconds. To ensure data consistency, the application cache must be updated whenever products are added, changed, or deleted.

Which solution will meet these requirements?

A. Set up an Amazon DynamoDB database and a DynamoDB Accelerator (DAX) cluster.

B. Set up an Amazon RDS database and an Amazon ElastiCache for Redis cluster. Implement a lazy loading caching strategy with ElastiCache.

C. Setup an Amazon DynamoDB database that has an in-memory cache. Implement a lazy loading caching strategy in

the application.

D. Set up an Amazon RDS database and an Amazon DynamoDB Accelerator (DAX) cluster. Specify a TTL setting for the DAX cluster.

Correct Answer: A

QUESTION 14

A company that has large online business uses an Amazon DynamoDB table to store sales data. The company enabled Amazon DynamoDB Streams on the table. The transaction status of each sale is stored in a TransactionStatus attribute

in the table. The value of the TransactionStatus attribute must be either failed, pending, or completed.

The company wants to be notified of failed sales where the Price attribute is above a specific threshold. A developer needs to set up notification for the failed sales.

Which solution will meet these requirements with the LEAST development effort?

A. Create an event source mapping between DynamoDB Streams and an AWS Lambda function. Use Lambda event filtering to trigger the Lambda function only if sales fail when the price is above the specified threshold. Configure the Lambda function to publish the data to an Amazon Simple Notification Service (Amazon SNS) topic.

B. Create an event source mapping between DynamoDB Streams and an AWS Lambda function. Configure the Lambda function handler code to publish to an Amazon Simple Notification Service (Amazon SNS) topic if sales fail when price is above the specified threshold.

C. Create an event source mapping between DynamoDB Streams and an Amazon Simple Notification Service (Amazon SNS) topic. Use event filtering to publish to the SNS topic if sales fail when the price is above the specified threshold.

D. Create an Amazon CloudWatch alarm to monitor the DynamoDB Streams sales data. Configure the alarm to publish to an Amazon Simple Notification Service (Amazon SNS) topic if sales fail due when price is above the specified threshold.

Correct Answer: A

QUESTION 15

A company uses an AWS CloudFormation template to deploy and manage its AWS infrastructure. The CloudFormation template creates Amazon VPC security groups and Amazon EC2 security groups.

A manager finds out that some engineers modified the security groups of a few EC2 instances for testing purposes. A developer needs to determine what modifications occurred.

Which solution will meet this requirement?

A. Add a Conditions section statement in the source YAML file of the template. Run the CloudFormation stack.

B. Perform a drift detection operation on the CloudFormation stack.

C. Execute a change set for the CloudFormation stack.

D. Use Amazon Detective to detect the modifications.

Correct Answer: B

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