



**Amazon**

## **Exam Questions DVA-C02**

DVA-C02

**NEW QUESTION 1**

A developer is incorporating AWS X-Ray into an application that handles personal identifiable information (PII). The application is hosted on Amazon EC2 instances. The application trace messages include encrypted PII and go to Amazon CloudWatch. The developer needs to ensure that no PII goes outside of the EC2 instances.

Which solution will meet these requirements?

- A. Manually instrument the X-Ray SDK in the application code.
- B. Use the X-Ray auto-instrumentation agent.
- C. Use Amazon Macie to detect and hide PII
- D. Call the X-Ray API from AWS Lambda.
- E. Use AWS Distro for Open Telemetry.

**Answer: B**

**NEW QUESTION 2**

A developer has written the following IAM policy to provide access to an Amazon S3 bucket:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetObject",
        "s3:PutObject"
      ],
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
    },
    {
      "Effect": "Deny",
      "Action": "s3:*",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/secrets*"
    }
  ]
}
```

Which access does the policy allow regarding the s3:GetObject and s3:PutObject actions?

- A. Access on all buckets except the "DOC-EXAMPLE-BUCKET" bucket
- B. Access on all buckets that start with "DOC-EXAMPLE-BUCKET" except the "DOC-EXAMPLE-BUCKET/secrets" bucket
- C. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket along with access to all S3 actions for objects in the "DOC-EXAMPLE-BUCKET" bucket that start with "secrets"
- D. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket except on objects that start with "secrets"

**Answer: D**

**NEW QUESTION 3**

A company needs to harden its container images before the images are in a running state. The company's application uses Amazon Elastic Container Registry (Amazon ECR) as an image registry. Amazon Elastic Kubernetes Service (Amazon EKS) for compute, and an AWS CodePipeline pipeline that orchestrates a continuous integration and continuous delivery (CI/CD) workflow.

Dynamic application security testing occurs in the final stage of the pipeline after a new image is deployed to a development namespace in the EKS cluster. A developer needs to place an analysis stage before this deployment to analyze the container image earlier in the CI/CD pipeline.

Which solution will meet these requirements with the MOST operational efficiency?

- A. Build the container image and run the docker scan command locally
- B. Mitigate any findings before pushing changes to the source code repository
- C. Write a pre-commit hook that enforces the use of this workflow before commit.
- D. Create a new CodePipeline stage that occurs after the container image is built
- E. Configure ECR basic image scanning to scan on image push
- F. Use an AWS Lambda function as the action provider
- G. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.
- H. Create a new CodePipeline stage that occurs after source code has been retrieved from its repository. Run a security scanner on the latest revision of the source code
- I. Fail the pipeline if there are findings.
- J. Add an action to the deployment stage of the pipeline so that the action occurs before the deployment to the EKS cluster
- K. Configure ECR basic image scanning to scan on image push
- L. Use an AWS Lambda function as the action provider
- M. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.

**Answer: D**

**NEW QUESTION 4**

A developer wants to store information about movies. Each movie has a title, release year, and genre. The movie information also can include additional properties about the cast and production crew. This additional information is inconsistent across movies. For example, one movie might have an assistant director, and another movie might have an animal trainer.

The developer needs to implement a solution to support the following use cases:

For a given title and release year, get all details about the movie that has that title and release year. For a given title, get all details about all movies that have that title.

For a given genre, get all details about all movies in that genre. Which data store configuration will meet these requirements?

- A. Create an Amazon DynamoDB tabl
- B. Configure the table with a primary key that consists of the title as the partition key and the release year as the sort ke
- C. Create a global secondary index that uses the genre as the partition key and the title as the sort key.
- D. Create an Amazon DynamoDB tabl
- E. Configure the table with a primary key that consists of the genre as the partition key and the release year as the sort ke
- F. Create a global secondary index that uses the title as the partition key.
- G. On an Amazon RDS DB instance, create a table that contains columns for title, release year, and genre. Configure the title as the primary key.
- H. On an Amazon RDS DB instance, create a table where the primary key is the title and all other data is encoded into JSON format as one additional column.

**Answer:** A

#### NEW QUESTION 5

A developer is working on a serverless application that needs to process any changes to an Amazon DynamoDB table with an AWS Lambda function. How should the developer configure the Lambda function to detect changes to the DynamoDB table?

- A. Create an Amazon Kinesis data stream, and attach it to the DynamoDB tabl
- B. Create a trigger to connect the data stream to the Lambda function.
- C. Create an Amazon EventBridge rule to invoke the Lambda function on a regular schedul
- D. Conned to the DynamoDB table from the Lambda function to detect changes.
- E. Enable DynamoDB Streams on the tabl
- F. Create a trigger to connect the DynamoDB stream to the Lambda function.
- G. Create an Amazon Kinesis Data Firehose delivery stream, and attach it to the DynamoDB table. Configure the delivery stream destination as the Lambda function.

**Answer:** C

#### NEW QUESTION 6

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

#### NEW QUESTION 7

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

#### NEW QUESTION 8

A developer is designing an AWS Lambda function that creates temporary files that are less than 10 MB during invocation. The temporary files will be accessed and modified multiple times during invocation. The developer has no need to save or retrieve these files in the future.

Where should the temporary files be stored?

- A. the /tmp directory
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon S3

**Answer:** A

#### NEW QUESTION 9

A developer wants to expand an application to run in multiple AWS Regions. The developer wants to copy Amazon Machine Images (AMIs) with the latest changes and create a new application stack in the destination Region. According to company requirements, all AMIs must be encrypted in all Regions. However, not all the AMIs that the company uses are encrypted.

How can the developer expand the application to run in the destination Region while meeting the encryption requirement?

- A. Create new AMIs, and specify encryption parameter
- B. Copy the encrypted AMIs to the destination Regio

- C. Delete the unencrypted AMIs.
- D. Use AWS Key Management Service (AWS KMS) to enable encryption on the unencrypted AMI
- E. Copy the encrypted AMIs to the destination Region.
- F. Use AWS Certificate Manager (ACM) to enable encryption on the unencrypted AMI
- G. Copy the encrypted AMIs to the destination Region.
- H. Copy the unencrypted AMIs to the destination Region.
- I. Enable encryption by default in the destination Region.

**Answer:** B

#### NEW QUESTION 10

A company has an Amazon S3 bucket that contains sensitive data. The data must be encrypted in transit and at rest. The company encrypts the data in the S3 bucket by using an AWS Key Management Service (AWS KMS) key. A developer needs to grant several other AWS accounts the permission to use the S3 GetObject operation to retrieve the data from the S3 bucket.

How can the developer enforce that all requests to retrieve the data provide encryption in transit?

- A. Define a resource-based policy on the S3 bucket to deny access when a request meets the condition "aws:SecureTransport": "false".
- B. Define a resource-based policy on the S3 bucket to allow access when a request meets the condition "aws:SecureTransport": "false".
- C. Define a role-based policy on the other accounts' roles to deny access when a request meets the condition of "aws:SecureTransport": "false".
- D. Define a resource-based policy on the KMS key to deny access when a request meets the condition of "aws:SecureTransport": "false".

**Answer:** A

#### NEW QUESTION 10

A financial company must store original customer records for 10 years for legal reasons. A complete record contains personally identifiable information (PII).

According to local regulations, PII is available to only certain people in the company and must not be shared with third parties. The company needs to make the records available to third-party organizations for statistical analysis without sharing the PII.

A developer wants to store the original immutable record in Amazon S3. Depending on who accesses the S3 document, the document should be returned as is or with all the PII removed. The developer has written an AWS Lambda function to remove the PII from the document. The function is named removePii.

What should the developer do so that the company can meet the PII requirements while maintaining only one copy of the document?

- A. Set up an S3 event notification that invokes the removePii function when an S3 GET request is made. Call Amazon S3 by using a GET request to access the object without PII.
- B. Set up an S3 event notification that invokes the removePii function when an S3 PUT request is made. Call Amazon S3 by using a PUT request to access the object without PII.
- C. Create an S3 Object Lambda access point from the S3 console
- D. Select the removePii function
- E. Use S3 Access Points to access the object without PII.
- F. Create an S3 access point from the S3 console
- G. Use the access point name to call the GetObjectLegalHold S3 API function
- H. Pass in the removePii function name to access the object without PII.

**Answer:** C

#### NEW QUESTION 13

A developer needs to perform geographic load testing of an API. The developer must deploy resources to multiple AWS Regions to support the load testing of the API.

How can the developer meet these requirements without additional application code?

- A. Create and deploy an AWS Lambda function in each desired Region
- B. Configure the Lambda function to create a stack from an AWS CloudFormation template in that Region when the function is invoked.
- C. Create an AWS CloudFormation template that defines the load test resource
- D. Use the AWS CLI create-stack-set command to create a stack set in the desired Regions.
- E. Create an AWS Systems Manager document that defines the resource
- F. Use the document to create the resources in the desired Regions.
- G. Create an AWS CloudFormation template that defines the load test resource
- H. Use the AWS CLI deploy command to create a stack from the template in each Region.

**Answer:** B

#### NEW QUESTION 17

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
- 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 application
- 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:** AB

#### NEW QUESTION 22

A company wants to share information with a third party. The third party has an HTTP API endpoint that the company can use to share the information. The company has the required API key to access the HTTP API. The company needs a way to manage the API key by using code. The integration of the API key with the application code cannot affect application performance. Which solution will meet these requirements MOST securely?

- A. Store the API credentials in AWS Secrets Manager
- B. Retrieve the API credentials at runtime by using the AWS SDK
- C. Use the credentials to make the API call.
- D. Store the API credentials in a local code variable
- E. Push the code to a secure Git repository
- F. Use the local code variable at runtime to make the API call.
- G. Store the API credentials as an object in a private Amazon S3 bucket
- H. Restrict access to the S3 object by using IAM policies
- I. Retrieve the API credentials at runtime by using the AWS SDK
- J. Use the credentials to make the API call.
- K. Store the API credentials in an Amazon DynamoDB table
- L. Restrict access to the table by using resource-based policies
- M. Retrieve the API credentials at runtime by using the AWS SDK
- N. Use the credentials to make the API call.

**Answer: B**

#### NEW QUESTION 27

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 database
- 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 data
- 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 data
- G. Use an Amazon RDS for MySQL DB instance to store the application data.

**Answer: A**

#### NEW QUESTION 30

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