



Amazon

Exam Questions DVA-C02

DVA-C02

NEW QUESTION 1

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 2

A developer is using an AWS Lambda function to generate avatars for profile pictures that are uploaded to an Amazon S3 bucket. The Lambda function is automatically invoked for profile pictures that are saved under the /original/ S3 prefix. The developer notices that some pictures cause the Lambda function to time out. The developer wants to implement a fallback mechanism by using another Lambda function that resizes the profile picture. Which solution will meet these requirements with the LEAST development effort?

- A. Set the image resize Lambda function as a destination of the avatar generator Lambda function for the events that fail processing.
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue
- C. Set the SQS queue as a destination with an on failure condition for the avatar generator Lambda function
- D. Configure the image resize Lambda function to poll from the SQS queue.
- E. Create an AWS Step Functions state machine that invokes the avatar generator Lambda function and uses the image resize Lambda function as a fallback
- F. Create an Amazon EventBridge rule that matches events from the S3 bucket to invoke the state machine.
- G. Create an Amazon Simple Notification Service (Amazon SNS) topic
- H. Set the SNS topic as a destination with an on failure condition for the avatar generator Lambda function
- I. Subscribe the image resize Lambda function to the SNS topic.

Answer: C

NEW QUESTION 3

An application uses Lambda functions to extract metadata from files uploaded to an S3 bucket; the metadata is stored in Amazon DynamoDB. The application starts behaving unexpectedly, and the developer wants to examine the logs of the Lambda function code for errors. Based on this system configuration, where would the developer find the logs?

- A. Amazon S3
- B. AWS CloudTrail
- C. Amazon CloudWatch
- D. Amazon DynamoDB

Answer: C

NEW QUESTION 4

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 provide
- 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 provide
- M. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.

Answer: D

NEW QUESTION 5

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

Which solution will meet these requirements?

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

Answer: A

NEW QUESTION 6

A company has deployed an application on AWS Elastic Beanstalk. The company has configured the Auto Scaling group that is associated with the Elastic Beanstalk environment to have five Amazon EC2 instances. If the capacity is fewer than four EC2 instances during the deployment, application performance degrades. The company is using the all-at-once deployment policy.

What is the MOST cost-effective way to solve the deployment issue?

- A. Change the Auto Scaling group to six desired instances.
- B. Change the deployment policy to traffic splitting
- C. Specify an evaluation time of 1 hour.
- D. Change the deployment policy to rolling with additional batch
- E. Specify a batch size of 1.
- F. Change the deployment policy to rolling
- G. Specify a batch size of 2.

Answer: C

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 deploying a new application to Amazon Elastic Container Service (Amazon ECS). The developer needs to securely store and retrieve different types of variables. These variables include authentication information for a remote API, the URL for the API, and credentials. The authentication information and API URL must be available to all current and future deployed versions of the application across development, testing, and production environments.

How should the developer retrieve the variables with the FEWEST application changes?

- A. Update the application to retrieve the variables from AWS Systems Manager Parameter Store
- B. Use unique paths in Parameter Store for each variable in each environment
- C. Store the credentials in AWS Secrets Manager in each environment.
- D. Update the application to retrieve the variables from AWS Key Management Service (AWS KMS). Store the API URL and credentials as unique keys for each environment.
- E. Update the application to retrieve the variables from an encrypted file that is stored with the application. Store the API URL and credentials in unique files for each environment.
- F. Update the application to retrieve the variables from each of the deployed environments
- G. Define the authentication information and API URL in the ECS task definition as unique names during the deployment process.

Answer: B

NEW QUESTION 9

An application is processing clickstream data using Amazon Kinesis. The clickstream data feed into Kinesis experiences periodic spikes. The PutRecords API call occasionally fails and the logs show that the failed call returns the response shown below:

```
{
  "FailedRecordCount": 1,
  "Records": [
    {
      "SequenceNumber": "21269319989900637946712965403778482371",
      "ShardId": "shardId-000000000001"
    },
    {
      "ErrorCode": "ProvisionedThroughputExceededException",
      "ErrorMessage": "Rate exceeded for shard shardId-000000000001 in
        stream exampleStreamName under account 123456789."
    },
    {
      "SequenceNumber": "21269319989999637946712965403778482985",
      "ShardId": "shardId-000000000002"
    }
  ]
}
```

Which techniques will help mitigate this exception? (Choose two.)

- A. Which techniques will help mitigate this exception? (Choose two.)
- B. Use a PutRecord API instead of PutRecords.
- C. Reduce the frequency and/or size of the requests.
- D. Use Amazon SNS instead of Kinesis.
- E. Reduce the number of KCL consumers.

Answer: AC

NEW QUESTION 10

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 Region
- 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 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 behavior
- B. Set the path pattern for the second cache behavior to the path of the login page, and make viewer access unrestricted
- 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 behavior
- E. Set the path pattern for the second cache behavior to *, and make viewer access restricted
- 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 behavior
- H. Point the failover origin to the S3 bucket
- I. Set the path pattern for the primary origin to *, and make viewer access restricted
- 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 access
- L. Set the resource on the policy to the Amazon Resource Name (ARN) of the login page object in the S3 bucket
- M. Add a CloudFront function to the default cache behavior to redirect unauthorized requests to the login page's S3 URL.

Answer: A

NEW QUESTION 15

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

Answer: C

NEW QUESTION 19

A company wants to deploy and maintain static websites on AWS. Each website's source code is hosted in one of several version control systems, including AWS CodeCommit, Bitbucket, and GitHub.

The company wants to implement phased releases by using development, staging, user acceptance testing, and production environments in the AWS Cloud. Deployments to each environment must be started by code merges on the relevant Git branch. The company wants to use HTTPS for all data exchange. The company needs a solution that does not require servers to run continuously.

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

- A. Host each website by using AWS Amplify with a serverless backend
- B. Connect the repository branches that correspond to each of the desired environments
- C. Start deployments by merging code changes to a desired branch.
- D. Host each website in AWS Elastic Beanstalk with multiple environments
- E. Use the EB CLI to link each repository branch
- F. Integrate AWS CodePipeline to automate deployments from version control code merges.
- G. Host each website in different Amazon S3 buckets for each environment
- H. Configure AWS CodePipeline to pull source code from version control
- I. Add an AWS CodeBuild stage to copy source code to Amazon S3.
- J. Host each website on its own Amazon EC2 instance
- K. Write a custom deployment script to bundle each website's static assets
- L. Copy the assets to Amazon EC2. Set up a workflow to run the script when code is merged.

Answer: A

NEW QUESTION 21

A developer is designing a serverless application with two AWS Lambda functions to process photos. One Lambda function stores objects in an Amazon S3 bucket and stores the associated metadata in an Amazon DynamoDB table. The other Lambda function fetches the objects from the S3 bucket by using the metadata from the DynamoDB table. Both Lambda functions use the same Python library to perform complex computations and are approaching the quota for the maximum size of zipped deployment packages.

What should the developer do to reduce the size of the Lambda deployment packages with the LEAST operational overhead?

- A. Package each Python library in its own .zip file archive
- B. Deploy each Lambda function with its own copy of the library.
- C. Create a Lambda layer with the required Python libraries
- D. Use the Lambda layer in both Lambda functions.
- E. Combine the two Lambda functions into one Lambda function
- F. Deploy the Lambda function as a single.zip file archive.
- G. Download the Python library to an S3 bucket
- H. Program the Lambda functions to reference the object URLs.

Answer: B

NEW QUESTION 22

A company is implementing an application on Amazon EC2 instances. The application needs to process incoming transactions. When the application detects a transaction that is not valid, the application must send a chat message to the company's support team. To send the message, the application needs to retrieve the access token to authenticate by using the chat API.

A developer needs to implement a solution to store the access token. The access token must be encrypted at rest and in transit. The access token must also be accessible from other AWS accounts.

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

- A. Use an AWS Systems Manager Parameter Store SecureString parameter that uses an AWS Key Management Service (AWS KMS) AWS managed key to store the access token
- B. Add a resource-based policy to the parameter to allow access from other accounts
- C. Update the IAM role of the EC2 instances with permissions to access Parameter Store
- D. Retrieve the token from Parameter Store with the decrypt flag enabled
- E. Use the decrypted access token to send the message to the chat.
- F. Encrypt the access token by using an AWS Key Management Service (AWS KMS) customer managed key
- G. Store the access token in an Amazon DynamoDB table
- H. Update the IAM role of the EC2 instances with permissions to access DynamoDB and AWS KMS
- I. Retrieve the token from DynamoDB
- J. Decrypt the token by using AWS KMS on the EC2 instance

- K. Use the decrypted access token to send the message to the chat.
- L. Use AWS Secrets Manager with an AWS Key Management Service (AWS KMS) customer managed key to store the access token
- M. Add a resource-based policy to the secret to allow access from other account
- N. Update the IAM role of the EC2 instances with permissions to access Secrets Manager
- O. Retrieve the token from Secrets Manager
- P. Use the decrypted access token to send the message to the chat.
- Q. Encrypt the access token by using an AWS Key Management Service (AWS KMS) AWS managed key. Store the access token in an Amazon S3 bucket
- R. Add a bucket policy to the S3 bucket to allow access from other account
- S. Update the IAM role of the EC2 instances with permissions to access Amazon S3 and AWS KMS
- T. Retrieve the token from the S3 bucket
- . Decrypt the token by using AWS KMS on the EC2 instance
- . Use the decrypted access token to send the message to the chat.

Answer: B

NEW QUESTION 26

A company is building a scalable data management solution by using AWS services to improve the speed and agility of development. The solution will ingest large volumes of data from various sources and will process this data through multiple business rules and transformations.

The solution requires business rules to run in sequence and to handle reprocessing of data if errors occur when the business rules run. The company needs the solution to be scalable and to require the least possible maintenance.

Which AWS service should the company use to manage and automate the orchestration of the data flows to meet these requirements?

- A. AWS Batch
- B. AWS Step Functions
- C. AWS Glue
- D. AWS Lambda

Answer: D

NEW QUESTION 27

A developer is using AWS Amplify Hosting to build and deploy an application. The developer is receiving an increased number of bug reports from users. The developer wants to add end-to-end testing to the application to eliminate as many bugs as possible before the bugs reach production.

Which solution should the developer implement to meet these requirements?

- A. Run the `amplify add test` command in the Amplify CLI.
- B. Create unit tests in the application
- C. Deploy the unit tests by using the `amplify push` command in the Amplify CLI.
- D. Add a test phase to the `amplify.yml` build settings for the application.
- E. Add a test phase to the `aws-exports.js` file for the application.

Answer: C

NEW QUESTION 29

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 instance
- B. Store the unique identifier for each request in a database table
- C. Modify the Lambda function to check the table for the identifier before processing the request.
- D. Create an Amazon DynamoDB table
- E. Store the unique identifier for each request in the table
- F. Modify the Lambda function to check the table for the identifier before processing the request.
- G. Create an Amazon DynamoDB table
- H. Store the unique identifier for each request in the table
- 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 instance
- K. Store the unique identifier for each request in the cache
- L. Modify the Lambda function to check the cache for the identifier before processing the request.

Answer: B

NEW QUESTION 31

A developer is deploying an AWS Lambda function. The developer wants the ability to return to older versions of the function quickly and seamlessly. How can the developer achieve this goal with the LEAST operational overhead?

- A. Use AWS OpsWorks to perform blue/green deployments.
- B. Use a function alias with different versions.
- C. Maintain deployment packages for older versions in Amazon S3.
- D. Use AWS CodePipeline for deployments and rollbacks.

Answer: B

NEW QUESTION 34

A developer has a legacy application that is hosted on-premises. Other applications hosted on AWS depend on the on-premises application for proper functioning.

In case of any application errors, the developer wants to be able to use Amazon CloudWatch to monitor and troubleshoot all applications from one place. How can the developer accomplish this?

- A. Install an AWS SDK on the on-premises server to automatically send logs to CloudWatch.
- B. Download the CloudWatch agent to the on-premises server
- C. Configure the agent to use IAM user credentials with permissions for CloudWatch.
- D. Upload log files from the on-premises server to Amazon S3 and have CloudWatch read the files.
- E. Upload log files from the on-premises server to an Amazon EC2 instance and have the instance forward the logs to CloudWatch.

Answer: B

NEW QUESTION 37

A developer is creating a template that uses AWS CloudFormation to deploy an application. The application is serverless and uses Amazon API Gateway, Amazon DynamoDB, and AWS Lambda.

Which AWS service or tool should the developer use to define serverless resources in YAML?

- A. CloudFormation serverless intrinsic functions
- B. AWS Elastic Beanstalk
- C. AWS Serverless Application Model (AWS SAM)
- D. AWS Cloud Development Kit (AWS CDK)

Answer: C

NEW QUESTION 38

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