Amazon

Exam Questions DVA-C02

DVA-C02

NEW QUESTION 1
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

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 developer is creating an application that includes an Amazon API Gateway REST API in the us-east-2 Region. The developer wants to use Amazon CloudFront and a custom domain name for the API. The developer has acquired an SSL/TLS certificate for the domain from a third-party provider.
How should the developer configure the custom domain for the application?

A. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the same Region as the AP
B. Create a DNS A record for the custom domain.
C. Import the SSL/TLS certificate into CloudFron
D. Create a DNS CNAME record for the custom domain.
E. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the same Region as the API.Create a DNS CNAME record for the custom domain.
F. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the us-east-1 Regio
G. Create a DNS CNAME record for the custom domain.

Answer: B

NEW QUESTION 4
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) queu
C. Set the SQS queue as a destination with an on failure condition for the avatar generator Lambda functio
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 fallbac
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) topi
H. Set the SNS topic as a destination with an on failure condition for the avatar generator Lambda functio
I. Subscribe the image resize Lambda function to the SNS topic.

Answer: C

NEW QUESTION 5
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

NEW QUESTION 6
A developer is building a new application on AWS. The application uses an AWS Lambda function that retrieves information from an Amazon DynamoDB table.
The developer hard coded the DynamoDB table name into the Lambda function code. The table name might change over time. The developer does not want to
modify the Lambda code if the table name changes.
Which solution will meet these requirements MOST efficiently?

A. Create a Lambda environment variable to store the table nam
B. Use the standard method for the programming language to retrieve the variable.
C. Store the table name in a fil
D. Store the file in the /tmp folde
E. Use the SDK for the programming language to retrieve the table name.
F. Create a file to store the table nam
G. Zip the file and upload the file to the Lambda laye
H. Use the SDK for the programming language to retrieve the table name.
I. Create a global variable that is outside the handler in the Lambda function to store the table name.

Answer: C

NEW QUESTION 7
A company is running a custom application on a set of on-premises Linux servers that are accessed using Amazon API Gateway. AWS X-Ray tracing has been
enabled on the API test stage.
How can a developer enable X-Ray tracing on the on-premises servers with the LEAST amount of configuration?

A. Install and run the X-Ray SDK on the on-premises servers to capture and relay the data to the X-Ray service.
B. Install and run the X-Ray daemon on the on-premises servers to capture and relay the data to the X-Ray service.
C. Capture incoming requests on-premises and configure an AWS Lambda function to pull, process, and relay relevant data to X-Ray using the PutTraceSegments
API call.
D. Capture incoming requests on-premises and configure an AWS Lambda function to pull, process, and relay relevant data to X-Ray using the
PutTelemetryRecords API call.

Answer: B

NEW QUESTION 8
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 9
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.
I. Create one Amazon Simple Notification Service (Amazon SNS) topi
J. Subscribe all partners to the SNS topic.

Answer: C

NEW QUESTION 10
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 bucket.Add the CORS configuration to the central S3 bucket.
F. Create a Content-MD5 header that provides a message integrity check for the central S3 bucke
G. Insert the Content-MD5 header for each web application request.

Answer: C

NEW QUESTION 10
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: B

NEW QUESTION 14
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 15
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 consol
D. Select the removePii functio
E. Use S3 Access Points to access the object without PII.
F. Create an S3 access point from the S3 consol
G. Use the access point name to call the GetObjectLegalHold S3 API functio
H. Pass in the removePii function name to access the object without PII.

Answer: C

NEW QUESTION 20
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 applicatio
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 21
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 Regio
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 23
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

NEW QUESTION 28
A developer wants to insert a record into an Amazon DynamoDB table as soon as a new file is added to an Amazon S3 bucket.
Which set of steps would be necessary to achieve this?

A. Create an event with Amazon EventBridge that will monitor the S3 bucket and then insert the records into DynamoDB.
B. Configure an S3 event to invoke an AWS Lambda function that inserts records into DynamoDB.
C. Create an AWS Lambda function that will poll the S3 bucket and then insert the records into DynamoDB.
D. Create a cron job that will run at a scheduled time and insert the records into DynamoDB.

Answer: B

NEW QUESTION 30
A development team maintains a web application by using a single AWS CloudFormation template. The template defines web servers and an Amazon RDS database. The team uses the Cloud Formation template to deploy the Cloud Formation stack to different environments.
During a recent application deployment, a developer caused the primary development database to be dropped and recreated. The result of this incident was a loss of data. The team needs to avoid accidental database deletion in the future.
Which solutions will meet these requirements? (Choose two.)

A. Add a CloudFormation Deletion Policy attribute with the Retain value to the database resource.
B. Update the CloudFormation stack policy to prevent updates to the database.
C. Modify the database to use a Multi-AZ deployment.
D. Create a CloudFormation stack set for the web application and database deployments.
E. Add a Cloud Formation DeletionPolicy attribute with the Retain value to the stack.

Answer: AD

NEW QUESTION 33
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 bucket.Update the application code to use the AWS SDK to read and write configuration files from Amazon S3.
J. Create an Amazon S3 bucket to host the repositor
K. Migrate the existing .xml files to the S3 bucket.Mount the S3 bucket to the EC2 instances as a local volum
L. Update the application code to read andwrite configuration files from the disk.

Answer: C

NEW QUESTION 38
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