Amazon

Exam Questions DVA-C02

DVA-C02

NEW QUESTION 1
A company is running Amazon EC2 instances in multiple AWS accounts. A developer needs to implement an application that collects all the lifecycle events of the EC2 instances. The application needs to store the lifecycle events in a single Amazon Simple Queue Service (Amazon SQS) queue in the company's main AWS account for further processing.
Which solution will meet these requirements?

A. Configure Amazon EC2 to deliver the EC2 instance lifecycle events from all accounts to the Amazon EventBridge event bus of the main accoun
B. Add an EventBridge rule to the event bus of the main account that matches all EC2 instance lifecycle event
C. Add the SQS queue as a target of the rule.
D. Use the resource policies of the SQS queue in the main account to give each account permissions to write to that SQS queu
E. Add to the Amazon EventBridge event bus of each account an EventBridge rule that matches all EC2 instance lifecycle event
F. Add the SQS queue in the main account as a target of the rule.
G. Write an AWS Lambda function that scans through all EC2 instances in the company accounts to detect EC2 instance lifecycle change
H. Configure the Lambda function to write a notification message to the SQS queue in the main account if the function detects an EC2 instance lifecycle chang
I. Add an Amazon EventBridge scheduled rule that invokes the Lambda function every minute.
J. Configure the permissions on the main account event bus to receive events from all account
K. Create an Amazon EventBridge rule in each account to send all the EC2 instance lifecycle events to the main account event bu
L. Add an EventBridge rule to themain account event bus that matches all EC2 instance lifecycle event
M. Set the SQS queue as a target for the rule.

Answer: D

NEW QUESTION 2
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) forcompute, 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 locall
B. Mitigate any findings before pushing changes to the source code repositor
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 buil
E. Configure ECR basic image scanning to scan on image pus
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 cod
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 cluste
K. Configure ECR basic image scanning to scan on image pus
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 3
An application is using Amazon Cognito user pools and identity pools for secure access. A developer wants to integrate the user-specific file upload and download features in the application with Amazon S3. The developer must ensure that the files are saved and retrieved in a secure manner and that users can access only their own files. The file sizes range from 3 KB to 300 MB.
Which option will meet these requirements with the HIGHEST level of security?

A. Use S3 Event Notifications to validate the file upload and download requests and update the user interface (UI).
B. Save the details of the uploaded files in a separate Amazon DynamoDB tabl
C. Filter the list of files in the user interface (UI) by comparing the current user ID with the user ID associated with the file in the table.
D. Use Amazon API Gateway and an AWS Lambda function to upload and download file
E. Validate each request in the Lambda function before performing the requested operation.
F. Use an IAM policy within the Amazon Cognito identity prefix to restrict users to use their own folders in Amazon S3.

Answer: D

NEW QUESTION 4
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 instanc
B. Enable encryption of data in transit and at res
C. Store frequently accessed data in the cache.
D. Create an Amazon ElastiCache for Memcached instanc
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 replic
G. Connect to the read replica by using SS
H. Configure the read replica to store frequently accessed data.
I. Create an Amazon DynamoDB table and a DynamoDB Accelerator (DAX) cluster for the tabl

J. Store frequently accessed data in the DynamoDB table.

Answer: A

NEW QUESTION 5
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 upmulti-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 theemail 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

NEW QUESTION 6
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 7
A developer has created an AWS Lambda function that is written in Python. The Lambda function reads data from objects in Amazon S3 and writes data to an Amazon DynamoDB table. The function is successfully invoked from an S3 event notification when an object is created. However, the function fails when it attempts to write to the DynamoDB table.
What is the MOST likely cause of this issue?

A. The Lambda function's concurrency limit has been exceeded.
B. DynamoDB table requires a global secondary index (GSI) to support writes.
C. The Lambda function does not have IAM permissions to write to DynamoDB.
D. The DynamoDB table is not running in the same Availability Zone as the Lambda function.

Answer: D

NEW QUESTION 8
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 anAmazon 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

NEW QUESTION 9
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 backen
B. Conned the repository branches that correspond to each of the desired environment
C. Start deployments by merging code changes to a desired branch.
D. Host each website in AWS Elastic Beanstalk with multiple environment
E. Use the EB CLI to link each repository branc
F. Integrate AWS CodePipeline to automate deployments from version control code merges.
G. Host each website in different Amazon S3 buckets for each environmen
H. Configure AWS CodePipeline to pull source code from version contro
I. Add an AWS CodeBuild stage to copy source code to Amazon S3.
J. Host each website on its own Amazon EC2 instanc
K. Write a custom deployment script to bundle each website's static asset
L. Copy the assets to Amazon EC2. Set up a workflow to run the script when code is merged.

Answer: A

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 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 11
A company is building a serverless application on AWS. The application uses an AWS Lambda function to process customer orders 24 hours a day, 7 days a week. The Lambda function calls an external vendor's HTTP API to process payments.
During load tests, a developer discovers that the external vendor payment processing API occasionally times out and returns errors. The company expects that some payment processing API calls will return errors.
The company wants the support team to receive notifications in near real time only when the payment processing external API error rate exceed 5% of the total number of transactions in an hour. Developers need to use an existing Amazon Simple Notification Service (Amazon SNS) topic that is configured to notify the support team.
Which solution will meet these requirements?

A. Write the results of payment processing API calls to Amazon CloudWatc
B. Use Amazon CloudWatch Logs Insights to query the CloudWatch log
C. Schedule the Lambda function to check the CloudWatch logs and notify the existing SNS topic.
D. Publish custom metrics to CloudWatch that record the failures of the external payment processing APIcall
E. Configure a CloudWatch alarm to notify the existing SNS topic when error rate exceeds the specified rate.
F. Publish the results of the external payment processing API calls to a new Amazon SNS topi
G. Subscribe the support team members to the new SNS topic.
H. Write the results of the external payment processing API calls to Amazon S3. Schedule an Amazon Athena query to run at regular interval
I. Configure Athena to send notifications to the existing SNS topic when the error rate exceeds the specified rate.

Answer: B

NEW QUESTION 13
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 15
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.

Answer: D

NEW QUESTION 19
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