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 PI
D. Call the X-Ray API from AWS Lambda.
E. Use AWS Distro for Open Telemetry.

Answer: B

NEW QUESTION 2
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 3
An ecommerce company is using an AWS Lambda function behind Amazon API Gateway as its application tier. To process orders during checkout, the application calls a POST API from the frontend. The POST API invokes the Lambda function asynchronously. In rare situations, the application has not processed orders. The Lambda application logs show no errors or failures.
What should a developer do to solve this problem?

A. Inspect the frontend logs for API failure
B. Call the POST API manually by using the requests from the log file.
C. Create and inspect the Lambda dead-letter queue
D. Troubleshoot the failed function
E. Reprocess the events.
F. Inspect the Lambda logs in Amazon CloudWatch for possible error
G. Fix the errors.
H. Make sure that caching is disabled for the POST API in API Gateway.

Answer: B

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 is offering APIs as a service over the internet to provide unauthenticated read access to statistical information that is updated daily. The company uses Amazon API Gateway and AWS Lambda to develop the APIs. The service has become popular, and the company wants to enhance the responsiveness of the APIs.
Which action can help the company achieve this goal?

A. Enable API caching in API Gateway.
B. Configure API Gateway to use an interface VPC endpoint.
C. Enable cross-origin resource sharing (CORS) for the APIs.
D. Configure usage plans and API keys in API Gateway.

Answer: A

NEW QUESTION 6
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 7
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 behavio
B. Set the path pattern for the second cache behavior to the path of the login page, and make viewer access unrestricte
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 behavio
E. Set the path pattern for the second cache behavior to *, and make viewer access restricte
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 behavio
H. Point the failover origin to the S3 bucke
I. Set the path pattern for the primary origin to *, and make viewer access restricte
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 acces
L. Set the resource on the policy to the Amazon Resource Name (ARN) of the login page object in the S3 bucke
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 8
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 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 is migrating an on-premises database to Amazon RDS for MySQL. The company has read-heavy workloads. The company wants to refactor the code to achieve optimum read performance for queries.
Which solution will meet this requirement with LEAST current and future effort?

A. Use a multi-AZ Amazon RDS deploymen
B. Increase the number of connections that the code makes to the database or increase the connection pool size if a connection pool is in use.
C. Use a multi-AZ Amazon RDS deploymen
D. Modify the code so that queries access the secondary RDS instance.
E. Deploy Amazon RDS with one or more read replica
F. Modify the application code so that queries use the URL for the read replicas.
G. Use open source replication software to create a copy of the MySQL database on an Amazon EC2 instanc
H. Modify the application code so that queries use the IP address of the EC2 instance.

Answer: B

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 15
A developer maintains an Amazon API Gateway REST API. Customers use the API through a frontend UI and Amazon Cognito authentication.
The developer has a new version of the API that contains new endpoints and backward-incompatible interface changes. The developer needs to provide beta access to other developers on the team without affecting customers.
Which solution will meet these requirements with the LEAST operational overhead?

A. Define a development stage on the API Gateway AP
B. Instruct the other developers to point the endpoints to the development stage.
C. Define a new API Gateway API that points to the new API application cod
D. Instruct the other developers to point the endpoints to the new API.
E. Implement a query parameter in the API application code that determines which code version to call.
F. Specify new API Gateway endpoints for the API endpoints that the developer wants to add.

Answer: A

NEW QUESTION 19
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 24
A development team wants to build a continuous integration/continuous delivery (CI/CD) pipeline. The team is using AWS CodePipeline to automate the code build and deployment. The team wants to store the program code to prepare for the CI/CD pipeline.
Which AWS service should the team use to store the program code?

A. AWS CodeDeploy
B. AWS CodeArtifact
C. AWS CodeCommit
D. Amazon CodeGuru

Answer: C

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 29
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 30
A company has deployed infrastructure on AWS. A development team wants to create an AWS Lambda function that will retrieve data from an Amazon Aurora database. The Amazon Aurora database is in a private subnet in company's VPC. The VPC is named VPC1. The data is relational in nature. The Lambda function needs to access the data securely.
Which solution will meet these requirements?

A. Create the Lambda functio
B. Configure VPC1 access for the functio
C. Attach a security group named SG1 to both the Lambda function and the databas
D. Configure the security group inbound and outbound rules to allow TCP traffic on Port 3306.
E. Create and launch a Lambda function in a new public subnet that is in a new VPC named VPC2. Create a peering connection between VPC1 and VPC2.
F. Create the Lambda functio
G. Configure VPC1 access for the functio
H. Assign a security group named SG1 to the Lambda functio
I. Assign a second security group named SG2 to the databas
J. Add an inbound rule to SG1 to allow TCP traffic from Port 3306.
K. Export the data from the Aurora database to Amazon S3. Create and launch a Lambda function in VPC1. Configure the Lambda function query the data from Amazon S3.

Answer: B

NEW QUESTION 32
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 37
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 serve
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 38
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