

# 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 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 API
- B. Create a DNS A record for the custom domain.
- C. Import the SSL/TLS certificate into CloudFront
- 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 Region
- G. Create a DNS CNAME record for the custom domain.

**Answer: B**

**NEW QUESTION 3**

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 4**

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 up multi-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 notification
- B. Add an Amazon API Gateway API to invoke the function
- 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 the email notification
- 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 notification
- 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 Firehose
- 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 5**

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 6

For a deployment using AWS Code Deploy, what is the run order of the hooks for in-place deployments?

- A. BeforeInstall -> ApplicationStop -> ApplicationStart -> AfterInstall
- B. ApplicationStop -> BeforeInstall -> AfterInstall -> ApplicationStart
- C. BeforeInstall -> ApplicationStop -> ValidateService -> ApplicationStart
- D. ApplicationStop -> BeforeInstall -> ValidateService -> ApplicationStart

**Answer:** A

#### NEW QUESTION 7

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 8

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 9

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 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 10

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 15

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 19

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 21

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 Manage
- B. Retrieve the API credentials at runtime by using the AWS SD
- C. Use the credentials to make the API call.
- D. Store the API credentials in a local code variabl
- E. Push the code to a secure Git repositor
- 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 bucke
- H. Restrict access to the S3 object by using IAM policie
- I. Retrieve the API credentials at runtime by using the AWS SD
- J. Use the credentials to make the API call.
- K. Store the API credentials in an Amazon DynamoDB tabl
- L. Restrict access to the table by using resource-based policie
- M. Retrieve the API credentials at runtime by using the AWS SD
- N. Use the credentials to make the API call.

**Answer: B**

#### NEW QUESTION 24

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