



# DVA-C02<sup>Q&As</sup>

AWS Certified Developer - Associate

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### QUESTION 1

A developer is writing an application for a company. The application will be deployed on Amazon EC2 and will use an Amazon RDS for Microsoft SQL Server database. The company's security team requires that database credentials are rotated at least weekly.

How should the developer configure the database credentials for this application?

- A. Create a database user. Store the user name and password in an AWS Systems Manager Parameter Store secure string parameter. Enable rotation of the AWS Key Management Service (AWS KMS) key that is used to encrypt the parameter.
- B. Enable IAM authentication for the database. Create a database user for use with IAM authentication. Enable password rotation.
- C. Create a database user. Store the user name and password in an AWS Secrets Manager secret that has daily rotation enabled.
- D. Use the EC2 user data to create a database user. Provide the user name and password in environment variables to the application.

Correct Answer: C

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### QUESTION 2

Users are reporting errors in an application. The application consists of several microservices that are deployed on Amazon Elastic Container Service (Amazon ECS) with AWS Fargate. Which combination of steps should a developer take to fix the errors? (Choose two.)

- A. Deploy AWS X-Ray as a sidecar container to the microservices. Update the task role policy to allow access to the X-Ray API.
- B. Deploy AWS X-Ray as a daemonset to the Fargate cluster. Update the service role policy to allow access to the X-Ray API.
- C. Instrument the application by using the AWS X-Ray SDK. Update the application to use the PutXrayTrace API call to communicate with the X-Ray API.
- D. Instrument the application by using the AWS X-Ray SDK. Update the application to communicate with the X-Ray daemon.
- E. Instrument the ECS task to send the stdout and stderr output to Amazon CloudWatch Logs. Update the task role policy to allow the cloudwatch:PullLogs action.

Correct Answer: DE

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### QUESTION 3



A developer creates a VPC named VPC-A that has public and private subnets. The developer also creates an Amazon RDS database inside the private subnet of VPC-A. To perform some queries, the developer creates an AWS Lambda function in the default VPC. The Lambda function has code to access the RDS database. When the Lambda function runs, an error message indicates that the function cannot connect to the RDS database.

How can the developer solve this problem?

- A. Modify the RDS security group. Add a rule to allow traffic from all the ports from the VPC CIDR block.
- B. Redeploy the Lambda function in the same subnet as the RDS instance. Ensure that the RDS security group allows traffic from the Lambda function.
- C. Create a security group for the Lambda function. Add a new rule in the RDS security group to allow traffic from the new Lambda security group.
- D. Create an IAM role. Attach a policy that allows access to the RDS database. Attach the role to the Lambda function.

Correct Answer: B

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#### QUESTION 4

A developer must analyze performance issues with production-distributed applications written as AWS Lambda functions. These distributed Lambda applications invoke other components that make up the applications.

How should the developer identify and troubleshoot the root cause of the performance issues in production?

- A. Add logging statements to the Lambda functions, then use Amazon CloudWatch to view the logs.
- B. Use AWS CloudTrail and then examine the logs.
- C. Use AWS X-Ray, then examine the segments and errors.
- D. Run Amazon Inspector agents and then analyze performance.

Correct Answer: C

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#### QUESTION 5

When a developer tries to run an AWS CodeBuild project, it raises an error because the length of all environment variables exceeds the limit for the combined maximum of characters. What is the recommended solution?

- A. Add the export LC\_ALL="en\_US.utf8" command to the pre\_build section to ensure POSIX localization.
- B. Use Amazon Cognito to store key-value pairs for large numbers of environment variables.
- C. Update the settings for the build project to use an Amazon S3 bucket for large numbers of environment variables.
- D. Use AWS Systems Manager Parameter Store to store large numbers of environment variables.



Correct Answer: D

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