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**QUESTION 1**

A developer is preparing to begin development of a new version of an application. The previous version of the application is deployed in a production environment. The developer needs to deploy fixes and updates to the current version during the development of the new version of the application. The code for the new version of the application is stored in AWS CodeCommit.

Which solution will meet these requirements?

- A. From the main branch, create a feature branch for production bug fixes. Create a second feature branch from the main branch for development of the new version.
- B. Create a Git tag of the code that is currently deployed in production. Create a Git tag for the development of the new version. Push the two tags to the CodeCommit repository.
- C. From the main branch, create a branch of the code that is currently deployed in production. Apply an IAM policy that ensures no other users can push or merge to the branch.
- D. Create a new CodeCommit repository for development of the new version of the application. Create a Git tag for the development of the new version.

Correct Answer: A

QUESTION 2

A developer is setting up a deployment pipeline. The pipeline includes an AWS CodeBuild build stage that requires access to a database to run integration tests. The developer is using a buildspec.yml file to configure the database connection. Company policy requires automatic rotation of all database credentials.

Which solution will handle the database credentials MOST securely?

- A. Retrieve the credentials from variables that are hardcoded in the buildspec.yml file. Configure an AWS Lambda function to rotate the credentials.
- B. Retrieve the credentials from an environment variable that is linked to a SecureString parameter in AWS Systems Manager Parameter Store. Configure Parameter Store for automatic rotation.
- C. Retrieve the credentials from an environment variable that is linked to an AWS Secrets Manager secret. Configure Secrets Manager for automatic rotation.
- D. Retrieve the credentials from an environment variable that contains the connection string in plaintext. Configure an Amazon EventBridge event to rotate the credentials.

Correct Answer: C

QUESTION 3



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.

Correct Answer: B

<https://docs.aws.amazon.com/xray/latest/devguide/xray-daemon.html>

QUESTION 4

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. Create a DNS A record for the custom domain.
- B. Import the SSL/TLS certificate into CloudFront. Create a DNS CNAME record for the custom domain.
- C. 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.
- D. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the us-east-1 Region. Create a DNS CNAME record for the custom domain.

Correct Answer: D

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cnames-and-https-requirements.html>

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/CNAMEs.html>

QUESTION 5

An online sales company is developing a serverless application that runs on AWS. The application uses an AWS Lambda function that calculates order success rates and stores the data in an Amazon DynamoDB table. A developer wants an efficient way to invoke the Lambda function every 15 minutes.

Which solution will meet this requirement with the LEAST development effort?

- A. Create an Amazon EventBridge rule that has a rate expression that will run the rule every 15 minutes. Add the Lambda function as the target of the EventBridge rule.



- B. Create an AWS Systems Manager document that has a script that will invoke the Lambda function on Amazon EC2. Use a Systems Manager Run Command task to run the shell script every 15 minutes.
- C. Create an AWS Step Functions state machine. Configure the state machine to invoke the Lambda function execution role at a specified interval by using a Wait state. Set the interval to 15 minutes.
- D. Provision a small Amazon EC2 instance. Set up a cron job that invokes the Lambda function every 15 minutes.

Correct Answer: B

QUESTION 6

A software company is launching a multimedia application. The application will allow guest users to access sample content before the users decide if they want to create an account to gain full access. The company wants to implement an authentication process that can identify users who have already created an account. The company also needs to keep track of the number of guest users who eventually create an account.

Which combination of steps will meet these requirements? (Choose two.)

- A. Create an Amazon Cognito user pool. Configure the user pool to allow unauthenticated users. Exchange user tokens for temporary credentials that allow authenticated users to assume a role.
- B. Create an Amazon Cognito identity pool. Configure the identity pool to allow unauthenticated users. Exchange unique identity for temporary credentials that allow all users to assume a role.
- C. Create an Amazon CloudFront distribution. Configure the distribution to allow unauthenticated users. Exchange user tokens for temporary credentials that allow all users to assume a role.
- D. Create a role for authenticated users that allows access to all content. Create a role for unauthenticated users that allows access to only the sample content.
- E. Allow all users to access the sample content by default. Create a role for authenticated users that allows access to the other content.

Correct Answer: BD

QUESTION 7

A developer has created a large AWS Lambda function. Deployment of the function is failing because of an `InvalidParameterValueException` error. The error message indicates that the unzipped size of the function exceeds the maximum supported value.

Which actions can the developer take to resolve this error? (Choose two.)

- A. Submit a quota increase request to AWS Support to increase the function to the required size.
- B. Use a compression algorithm that is more efficient than ZIP.
- C. Break up the function into multiple smaller functions.



D. Zip the .zip file twice to compress the file more.

E. Move common libraries, function dependencies, and custom runtimes into Lambda layers.

Correct Answer: CE

QUESTION 8

A company is hosting a workshop for external users and wants to share the reference documents with the external users for 7 days. The company stores the reference documents in an Amazon S3 bucket that the company owns.

What is the MOST secure way to share the documents with the external users?

A. Use S3 presigned URLs to share the documents with the external users. Set an expiration time of 7 days.

B. Move the documents to an Amazon WorkDocs folder. Share the links of the WorkDocs folder with the external users.

C. Create temporary IAM users that have read-only access to the S3 bucket. Share the access keys with the external users. Expire the credentials after 7 days.

D. Create a role that has read-only access to the S3 bucket. Share the Amazon Resource Name (ARN) of this role with the external users.

Correct Answer: A

QUESTION 9

A company has deployed an application on AWS Elastic Beanstalk. The company has configured the Auto Scaling group that is associated with the Elastic Beanstalk environment to have five Amazon EC2 instances. If the capacity is fewer than four EC2 instances during the deployment, application performance degrades. The company is using the all-at-once deployment policy.

What is the MOST cost-effective way to solve the deployment issue?

A. Change the Auto Scaling group to six desired instances.

B. Change the deployment policy to traffic splitting. Specify an evaluation time of 1 hour.

C. Change the deployment policy to rolling with additional batch. Specify a batch size of 1.

D. Change the deployment policy to rolling. Specify a batch size of 2.

Correct Answer: C

QUESTION 10

A developer registered an AWS Lambda function as a target for an Application Load Balancer (ALB) using a CLI command. However, the Lambda function is not being invoked when the client sends requests through the ALB. Why is the Lambda function not being invoked?

A. A Lambda function cannot be registered as a target for an ALB.



- B. A Lambda function can be registered with an ALB using AWS Management Console only.
- C. The permissions to invoke the Lambda function are missing.
- D. Cross-zone is not enabled on the ALB.

Correct Answer: C

QUESTION 11

A company recently deployed an AWS Lambda function. A developer notices an increase in the function throttle metrics in Amazon CloudWatch. What are the MOST operationally efficient solutions to reduce the function throttling? (Choose two.)

- A. Migrate the function to Amazon Elastic Kubernetes Service (Amazon EKS).
- B. Increase the maximum age of events in Lambda.
- C. Increase the function's reserved concurrency.
- D. Add the lambda:GetFunctionConcurrency action to the execution role.
- E. Request a service quota change for increased concurrency.

Correct Answer: CE

QUESTION 12

A developer is leveraging a Border Gateway Protocol (BGP)-based AWS VPN connection to connect from on-premises to Amazon EC2 instances in the developer's account. The developer is able to access an EC2 instance in subnet A, but is unable to access an EC2 instance in subnet B in the same VPC.

Which logs can the developer use to verify whether the traffic is reaching subnet B?

- A. VPN logs
- B. BGP logs
- C. VPC Flow Logs
- D. AWS CloudTrail logs

Correct Answer: C

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

QUESTION 13

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 function. Use API Gateway proxy integration to return constant HTTP responses.
- B. Create an Amazon EC2 instance that serves the backend REST API by using an AWS CloudFormation template.
- C. Customize the API Gateway stage to select a response type based on the request.
- D. Use a request mapping template to select the mock integration response.

Correct Answer: D

<https://docs.aws.amazon.com/apigateway/latest/developerguide/how-to-mock-integration.html>

QUESTION 14

A developer needs to launch a new Amazon EC2 instance by using the AWS CLI. Which AWS CLI command should the developer use to meet this requirement?

- A. `aws ec2 bundle-instance`
- B. `aws ec2 start-instances`
- C. `aws ec2 confirm-product-instance`
- D. `aws ec2 run-instances`

Correct Answer: D

QUESTION 15

A developer is planning to use an Amazon API Gateway and AWS Lambda to provide a REST API. The developer will have three distinct environments to manage: development, test, and production.

How should the application be deployed while minimizing the number of resources to manage?

- A. Create a separate API Gateway and separate Lambda function for each environment in the same Region.
- B. Assign a Region for each environment and deploy API Gateway and Lambda to each Region.
- C. Create one API Gateway with multiple stages with one Lambda function with multiple aliases.
- D. Create one API Gateway and one Lambda function, and use a REST parameter to identify the environment.

Correct Answer: C

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