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**QUESTION 1**

A solutions architect has developed a web application that uses an Amazon API Gateway Regional endpoint and an AWS Lambda function. The consumers of the web application are all close to the AWS Region where the application will be deployed. The Lambda function only queries an Amazon Aurora MySQL database. The solutions architect has configured the database to have three read replicas. During testing, the application does not meet performance requirements. Under high load, the application opens a large number of database connections. The solutions architect must improve the application's performance.

Which actions should the solutions architect take to meet these requirements? (Choose two.)

- A. Use the cluster endpoint of the Aurora database.
- B. Use RDS Proxy to set up a connection pool to the reader endpoint of the Aurora database.
- C. Use the Lambda Provisioned Concurrency feature.
- D. Move the code for opening the database connection in the Lambda function outside of the event handler.
- E. Change the API Gateway endpoint to an edge-optimized endpoint.

Correct Answer: BD

Connect to RDS outside of Lambda handler method to improve performance <https://awstut.com/en/2022/04/30/connect-to-rds-outside-of-lambda-handler-method-to-improve-performance-en/> Using RDS Proxy, you can handle unpredictable surges in database traffic. Otherwise, these surges might cause issues due to oversubscribing connections or creating new connections at a fast rate. RDS Proxy establishes a database connection pool and reuses connections in this pool. This approach avoids the memory and CPU overhead of opening a new database connection each time. To protect the database against oversubscription, you can control the number of database connections that are created. <https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/rds-proxy.html>

QUESTION 2

A company is running a web application in a VPC. The web application runs on a group of Amazon EC2 instances behind an Application Load Balancer (ALB). The ALB is using AWS WAF.

An external customer needs to connect to the web application. The company must provide IP addresses to all external customers.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Replace the ALB with a Network Load Balancer (NLB). Assign an Elastic IP address to the NLB.
- B. Allocate an Elastic IP address. Assign the Elastic IP address to the ALB. Provide the Elastic IP address to the customer.
- C. Create an AWS Global Accelerator standard accelerator. Specify the ALB as the accelerator's endpoint. Provide the accelerator's IP addresses to the customer.
- D. Configure an Amazon CloudFront distribution. Set the ALB as the origin. Ping the distribution's DNS name to determine the distribution's public IP address. Provide the IP address to the customer.

Correct Answer: C



<https://docs.aws.amazon.com/global-accelerator/latest/dg/about-accelerators.alb-accelerator.html>

Option A is wrong. AWS WAF does not support associating with NLB.

<https://docs.aws.amazon.com/waf/latest/developerguide/waf-chapter.html> Option B is wrong. An ALB does not support an Elastic IP address. <https://aws.amazon.com/>

[elasticloadbalancing/features/](https://aws.amazon.com/elasticloadbalancing/features/)

QUESTION 3

A company's security compliance requirements state that all Amazon EC2 images must be scanned for vulnerabilities and must pass a CVE assessment. A solutions architect is developing a mechanism to create security-approved AMIs that can be used by developers. Any new AMIs should go through an automated assessment process and be marked as approved before developers can use them. The approved images must be scanned every 30 days to ensure compliance.

Which combination of steps should the solutions architect take to meet these requirements while following best practices? (Select TWO)

- A. Use the AWS Systems Manager EC2 agent to run the CVE assessment on the EC2 instances launched from the AMIs that need to be scanned.
- B. Use AWS Lambda to write automatic approval rules. Store the approved AMI list in AWS Systems Manager Parameter Store. Use Amazon EventBridge to trigger an AWS Systems Manager Automation document on all EC2 instances every 30 days.
- C. Use Amazon Inspector to run the CVE assessment on the EC2 instances launched from the AMIs that need to be scanned.
- D. Use AWS Lambda to write automatic approval rules. Store the approved AMI list in AWS Systems Manager Parameter Store. Use a managed AWS Config rule for continuous scanning on all EC2 instances, and use AWS Systems Manager Automation documents for remediation.
- E. Use AWS CloudTrail to run the CVE assessment on the EC2 instances launched from the AMIs that need to be scanned.

Correct Answer: BC

QUESTION 4

An ecommerce company runs its infrastructure on AWS. The company exposes its APIs to its web and mobile clients through an Application Load Balancer (ALB) in front of an Amazon Elastic Kubernetes Service (Amazon EKS) cluster. The EKS cluster runs thousands of pods that provide the APIs.

After extending delivery to a new continent, the company adds an Amazon CloudFront distribution and sets the ALB as the origin. The company also adds AWS WAF to its architecture.

After implementation of the new architecture, API calls are significantly slower. However, there is a sudden increase in HTTP status code 504 (Gateway Timeout) errors and HTTP status code 502 (Bad Gateway) errors. This increase in errors seems to be for a specific domain. Which factors could be a cause of these errors? (Select TWO.)

- A. AWS WAF is blocking suspicious requests.
- B. The origin is not properly configured in CloudFront.



- C. There is an SSL/TLS handshake issue between CloudFront and the origin.
- D. EKS Kubernetes pods are being cycled.
- E. Some pods are taking more than 30 seconds to answer API calls.

Correct Answer: AE

QUESTION 5

A company has registered 10 new domain names. The company uses the domains for online marketing. The company needs a solution that will redirect online visitors to a specific URL for each domain. All domains and target URLs are defined in a JSON document. All DNS records are managed by Amazon Route 53.

A solutions architect must implement a redirect service that accepts HTTP and HTTPS requests.

Which combination of steps should the solutions architect take to meet these requirements with the LEAST amount of operational effort? (Choose three.)

- A. Create a dynamic webpage that runs on an Amazon EC2 instance. Configure the webpage to use the JSON document in combination with the event message to look up and respond with a redirect URL.
- B. Create an Application Load Balancer that includes HTTP and HTTPS listeners.
- C. Create an AWS Lambda function that uses the JSON document in combination with the event message to look up and respond with a redirect URL.
- D. Use an Amazon API Gateway API with a custom domain to publish an AWS Lambda function.
- E. Create an Amazon CloudFront distribution. Deploy a Lambda@Edge function.
- F. Create an SSL certificate by using AWS Certificate Manager (ACM). Include the domains as Subject Alternative Names.

Correct Answer: CEF

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/lambda-edge-how-it-works-tutorial.html>

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