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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q412-Q417):

NEW QUESTION # 412

ESTION NO: 113

A DevOps Engineer is developing a deployment strategy that will allow for data-driven decisions before a feature is fully approved for general availability. The current deployment process uses AWS CloudFormation and blue/green-style deployments. The development team has decided that customers should be randomly assigned to groups, rather than using a set percentage, and redirects should be avoided.

What process should be followed to implement the new deployment strategy?

- A. Configure Amazon Route 53 weighted records for the blue and green stacks, with 50% of traffic configured to route to each stack.
- B. Configure Amazon CloudFront with an AWS Lambda@Edge function to set a cookie when CloudFront receives a request. Assign the user to a version A or B, and configure the web server to redirect to version A or B.
- **C. Configure Amazon CloudFront with an AWS Lambda@Edge function to set a cookie when CloudFront receives a request. Assign the user to a version A or B, then return the corresponding version to the viewer.**
- D. Configure Amazon Route 53 with an AWS Lambda function to set a cookie when Amazon CloudFront receives a request. Assign the user to version A or B, then return the corresponding version to the viewer.

Answer: C

Explanation:

Explanation

https://docs.aws.amazon.com/zh_cn/AmazonCloudFront/latest/DeveloperGuide/lambda-examples.html

NEW QUESTION # 413

You need to migrate 10 million records in one hour into DynamoDB. All records are 1.5KB in size. The data is evenly distributed across the partition key. How many write capacity units should you provision during this batch load?

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

Explanation:

You need 2 units to make a 1.5KB write, since you round up. You need 20 million total units to perform this load. You have 3600 seconds to do so. Divide and round up for 5556.

Reference:

<http://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.ProvisionedThroughput.html>

NEW QUESTION # 414

An Engineering team manages a Node.js e-commerce application. The current environment consists of the following components: " Amazon S3 buckets for storing content " Amazon EC2 for the front-end web servers " AWS Lambda for executing image processing " Amazon DynamoDB for storing session-related data The team expects a significant increase in traffic to the site. The application should handle the additional load without interruption. The team ran initial tests by adding new servers to the EC2 front-end to handle the larger load, but the instances took up to 20 minutes to become fully configured. The team wants to reduce this configuration time.

What changes will the Engineering team need to implement to make the solution the MOST resilient and highly available while meeting the expected increase in demand?

- **A. Use AWS Elastic Beanstalk with a custom AMI including all web components. Deploy the platform by using an Auto Scaling group behind an Application Load Balancer across multiple Availability Zones. Implement Amazon DynamoDB Auto Scaling. Use Amazon Route 53 to point the application DNS record to the Elastic Beanstalk load balancer.**
- B. Use AWS OpsWorks to automatically configure each new EC2 instance as it is launched. Configure the EC2 instances by using an Auto Scaling group behind an Application Load Balancer across multiple Availability Zones. Implement Amazon DynamoDB Auto Scaling. Use Amazon Route 53 to point the application DNS record to the Application Load Balancer.
- C. Deploy a fleet of EC2 instances, doubling the current capacity, and place them behind an Application Load Balancer. Increase the Amazon DynamoDB read and write capacity units. Add an alias record that contains the Application Load Balancer endpoint to the existing Amazon Route 53 DNS record that points to the application.
- D. Configure Amazon CloudFront and have its origin point to Amazon S3 to host the web application. Implement Amazon DynamoDB Auto Scaling. Use Amazon Route 53 to point the application DNS record to the CloudFront DNS name.

Answer: A

NEW QUESTION # 415

You have decided to migrate your application to the cloud. You cannot afford any downtime. You want to gradually migrate so that you can test the application with a small percentage of users and increase over time.

Which of these options should you implement?

- **A. Implement a Route 53 weighted routing policy that distributes the traffic between your on-premises application and the AWS application depending on weight.**
- B. Configure an Elastic Load Balancer to distribute the traffic between the on-premises application and the AWS application.
- C. Implement a Route 53 failover routing policy that sends traffic back to the on-premises application if the AWS application fails.
- D. Use Direct Connect to route traffic to the on-premise location. In DirectConnect, configure the amount of traffic to be routed to the on-premise location.

Answer: A

Explanation:

Explanation

Option A is incorrect because DirectConnect cannot control the flow of traffic.

Option B is incorrect because you want to split the percentage of traffic. Failover will direct all of the traffic to the backup servers.

Option C is incorrect because you cannot control the percentage distribution of traffic.

Weighted routing lets you associate multiple resources with a single domain name (example.com) or subdomain name (acme.example.com) and choose how much traffic is routed to each resource. This can be useful for a variety of purposes, including load balancing and testing new versions of software.

For more information on the Routing policy please refer to the below link:

* [http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.](http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html)

html

NEW QUESTION # 416

A web application for healthcare services runs on Amazon EC2 instances behind an ELB Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. A DevOps Engineer must create a mechanism in which an EC2 instance can be taken out of production so its system logs can be analyzed for issues to quickly troubleshoot problems on the web tier.

How can the Engineer accomplish this task while ensuring availability and minimizing downtime?

- A. Implement Amazon CloudWatch Events rules. Create an AWS Lambda function that can react to an instance termination to deploy the CloudWatch Logs agent to upload the system and access logs to Amazon S3 for analysis.
- **B. Implement EC2 Auto Scaling groups cooldown periods. Use EC2 instance metadata to determine the instance state, and an AWS Lambda function to snapshot Amazon EBS volumes to preserve system logs.**
- C. Terminate the EC2 instances manually. The Auto Scaling service will upload all log information to CloudWatch Logs for analysis prior to instance termination.
- D. Implement EC2 Auto Scaling groups with lifecycle hooks. Create an AWS Lambda function that can modify an EC2 instance lifecycle hook into a standby state, extract logs from the instance through a remote script execution, and place them in an Amazon S3 bucket for analysis.

Answer: B

NEW QUESTION # 417

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