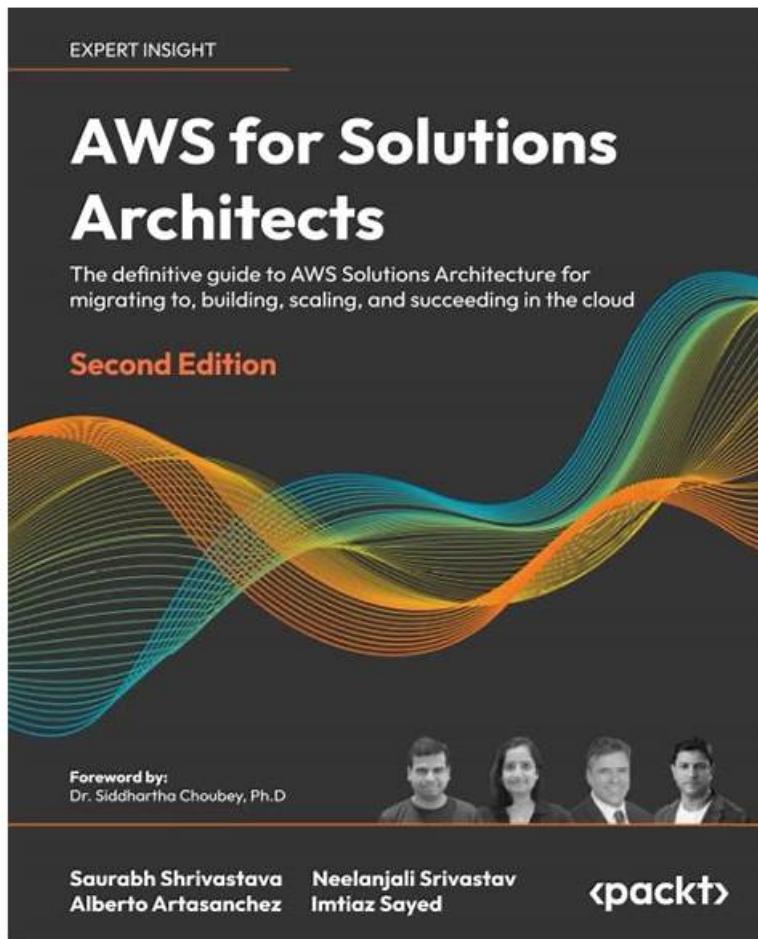


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Amazon AWS Certified Solutions Architect - Professional Sample Questions (Q411-Q416):

NEW QUESTION # 411

A company wants to build an online marketplace application on AWS as a set of loosely coupled microservices. For this application, when a customer submits a new order, two microservices should handle the event simultaneously. The Email microservice will send a confirmation email, and the OrderProcessing microservice will start the order delivery process. If a customer cancels an order, the OrderCancellation and Email microservices should handle the event simultaneously.

A solutions architect wants to use Amazon Simple Queue Service (Amazon SQS) and Amazon Simple Notification Service (Amazon SNS) to design the messaging between the microservices.

How should the solutions architect design the solution?

- A. Create an SNS topic and publish order events to it. Create three SQS queues for the Email OrderProcessing and Order Cancellation microservices. Subscribe all SQS queues to the SNS topic with message filtering.
- B. **Create two SQS queues and publish order events to both queues simultaneously. One queue is for the Email and OrderProcessing microservices. The second queue is for the Email and Order Cancellation microservices.**
- C. Create three SNS topics for each microservice. Publish order events to the three topics. Subscribe each of the Email OrderProcessing and Order Cancellation microservices to its own topic.
- D. Create a single SQS queue and publish order events to it. The Email OrderProcessing and Order Cancellation microservices can then consume messages of the queue.

Answer: B

NEW QUESTION # 412

A company runs an IoT platform on AWS. IoT sensors in various locations send data to the company's Node.js API servers on Amazon EC2 instances running behind an Application Load Balancer. The data is stored in an Amazon RDS MySQL DB instance that uses a 4 TB General Purpose SSD volume. The number of sensors the company has deployed in the field has increased over time, and is expected to grow significantly. The API servers are consistently overloaded and RDS metrics show high write latency. Which of the following steps together will resolve the issues permanently and enable growth as new sensors are provisioned, while keeping this platform cost-efficient? (Choose two.)

- A. Use AWS-X-Ray to analyze and debug application issues and add more API servers to match the load
- B. **Resize the MySQL General Purpose SSD storage to 6 TB to improve the volume's IOPS**
- C. Leverage Amazon Kinesis Data Streams and AWS Lambda to ingest and process the raw data
- D. Re-architect the database tier to use Amazon DynamoDB instead of an RDS MySQL DB instance
- E. Re-architect the database tier to use Amazon Aurora instead of an RDS MySQL DB instance and add read replicas

Answer: B

NEW QUESTION # 413

A company's application is running on Amazon EC2 instances within an Auto Scaling group behind an Elastic Load Balancer. Based on the application's history the company anticipates a spike in traffic during a holiday each year. A solutions architect must design a strategy to ensure that the Auto Scaling group proactively increases capacity to minimize any performance impact on application users.

Which solution will meet these requirements?

- A. Increase the minimum and maximum number of EC2 instances in the Auto Scaling group during the peak demand period.
- B. Create a recurring scheduled action to scale up the Auto Scaling group before the expected period of peak demand.
- C. **Configure an Amazon Simple Notification Service (Amazon SNS) notification to send alerts when there are autoscaling EC2_INSTANCE_LAUNCH events.**

- D. Create an Amazon CloudWatch alarm to scale up the EC2 instances when CPU utilization exceeds 90%.

Answer: C

Explanation:

Explanation/Reference: <https://docs.aws.amazon.com/autoscaling/ec2/userguide/as-dg.pdf>

NEW QUESTION # 414

A software company has deployed an application that consumes a REST API by using Amazon API Gateway.

AWS Lambda functions, and an Amazon DynamoDB table. The application is showing an increase in the number of errors during PUT requests. Most of the PUT calls come from a small number of clients that are authenticated with specific API keys.

A solutions architect has identified that a large number of the PUT requests originate from one client. The API is noncritical, and clients can tolerate retries of unsuccessful calls. However, the errors are displayed to customers and are causing damage to the API's reputation.

What should the solutions architect recommend to improve the customer experience?

- A. Implement API throttling through a usage plan at the API Gateway level. Ensure that the client application handles code 429 replies without error.
- B. Implement reserved concurrency at the Lambda function level to provide the resources that are needed during sudden increases in traffic.
- C. Turn on API caching to enhance responsiveness for the production stage. Run 10-minute load tests. Verify that the cache capacity is appropriate for the workload.
- D. **Implement retry logic with exponential backoff and irregular variation in the client application. Ensure that the errors are caught and handled with descriptive error messages.**

Answer: D

Explanation:

Explanation

<https://aws.amazon.com/premiumsupport/knowledge-center/aws-batch-requests-error/>

<https://aws.amazon.com/premiumsupport/knowledge-center/api-gateway-429-limit/>

NEW QUESTION # 415

A company is running multiple applications on Amazon EC2. Each application is deployed and managed by multiple business units. All applications are deployed on a single AWS account but on different virtual private clouds (VPCs). The company uses a separate VPC in the same account for test and development purposes.

Production applications suffered multiple outages when users accidentally terminated and modified resources that belonged to another business unit. A Solutions Architect has been asked to improve the availability of the company applications while allowing the Developers access to the resources they need.

Which option meets the requirements with the LEAST disruption?

- A. Create an AWS account for each business unit. Move each business unit's instances to its own account and set up a federation to allow users to access their business unit's account.
- B. Set up a federation to allow users to use their corporate credentials, and lock the users down to their own VPC. Use a network ACL to block each VPC from accessing other VPCs.
- C. Set up role-based access for each user and provide limited permissions based on individual roles and the services for which each user is responsible.
- D. **Implement a tagging policy based on business units. Create an IAM policy so that each user can terminate instances belonging to their own business units only.**

Answer: D

Explanation:

Explanation

<https://aws.amazon.com/blogs/security/resource-level-permissions-for-ec2-controlling-management-access-on->

NEW QUESTION # 416

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