SAA-C02^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C02)

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QUESTION 1

A company has a highly dynamic batch processing job that uses many Amazon EC2 instances to complete it. The job is stateless in nature, can be started and stopped at any given time with no negative impact, and typically takes upwards of 60 minutes total to complete The company has asked a solutions architect to design a scalable and cost-effective solution that meets the requirements of the job.

What should the solutions architect recommend?

A. Implement EC2 Spot Instances

B. Purchase EC2 Reserved Instances

C. Implement EC2 On-Demand Instances

D. Implement the processing on AWS Lambda

Correct Answer: A

QUESTION 2

A company is using Site-to-Site VPN connections for secure connectivity to its AWS Cloud resources from on premises. Due to an increase in traffic across the VPN connections to the Amazon EC2 instances, users are experiencing slower VPN connectivity.

Which solution will improve the VPN throughput?

A. Implement multiple customer gateways for the same network to scale the throughput

B. Use a transit gateway with equal cost multipath routing and add additional VPN tunnels

C. Configure a virtual private gateway with equal cost multipath routing and multiple channels

D. Increase the number of tunnels in the VPN configuration to scale the throughput beyond the default limit

Correct Answer: A

https://aws.amazon.com/blogs/networking-and-content-delivery/scaling-vpn-throughput-using-aws-transit-gateway/

QUESTION 3

A company is migrating a Linux-based web server group to AWS The web servers must access files in a shared file store for some content To meet the migration date, minimal changes can be made What should a solutions architect do to meet these requirements?

A. Create an Amazon S3 Standard bucket with access to the web server.

B. Configure an Amazon CloudFront distribution with an Amazon S3 bucket as the origin

C. Create an Amazon Elastic File System (Amazon EFS) volume and mount it on all web servers

D. Configure Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS SSD (io1) volumes and mount them on all web servers.

Correct Answer: C

QUESTION 4

An application is running on an Amazon EC2 instance and must have millisecond latency when running the workload. The application makes many small reads and writes to the file system, but the file system itself is small. Which Amazon Elastic Block Store (Amazon EBS) volume type should a solutions architect attach to their EC2 instance?

A. Cold HDD (sc1)

B. General Purpose SSD (gp2)

C. Provisioned IOPS SSD (io1)

D. Throughput Optimized HDD (st1)

Correct Answer: C

Reference: https://aws.amazon.com/blogs/database/best-storage-practices-for-running-production-workloadson-hosted-databases-with-amazon-rds-or-amazon-ec2/

QUESTION 5

A company is building a mobile app on AWS. The company wants to expand its reach to millions of users The company needs to build a platform so that authorized users can watch the company\\'s content on their mobile devices

What should a solutions architect recommend to meet these requirements?

A. Publish content to a public Amazon S3 bucket. Use AWS Key Management Service (AWS KMS) keys to stream content.

B. Set up IPsec VPN between the mobile app and the AWS environment to stream content

C. Use Amazon CloudFront Provide signed URLs to stream content.

D. Set up AWS Client VPN between the mobile app and the AWS environment to stream content.

Correct Answer: C

QUESTION 6

A media company stores video content in an Amazon Elastic Block Store (Amazon EBS) volume. A certain video file has become popular and a large number of users across the world are accessing this content. This has resulted in a cost

increase.

Which action will DECREASE cost without compromising user accessibility?

A. Change the EBS volume to Provisioned IOPS (PIOPS).

B. Store the video in an Amazon S3 bucket and create an Amazon CloudFront distribution.

C. Split the video into multiple, smaller segments so users are routed to the requested video segments only.

D. Clear an Amazon S3 bucket in each Region and upload the videos so users are routed to the nearest S3 bucket.

Correct Answer: B

QUESTION 7

A company is building a solution that will report Amazon EC2 Auto Scaling events across all the applications In an AWS account. The company needs to use a serverless solution to store the EC2 Auto Scaling status data in Amazon S3 The company then will use the data m Amazon S3 to provide near-real time updates in a dashboard The solution must not affect the speed of EC2 instance launches.

How should the company move the data to Amazon S3 to meet these requirements?

A. Use an Amazon CioudWatch metric stream to send the EC2 Auto Scaling status data to Amazon Kinesis Data Firehose Store the data in Amazon S3

B. Launch an Amazon EMR duster to collect the EC2 Auto Scaling status data and send the data to Amazon Kinesis Data Firehose Store the data in Amazon S3

C. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda (unction on a schedule Configure the Lambda function to send the EC2 Auto Scaling status data directly to Amazon S3

D. Use a bootstrap script during the launch of an EC2 instance to install Amazon Kinesis Agent Configure Kinesis Agent to collect the EC2 Auto Scaling status data and send the data to Amazon Kinesis Data Firehose Store the data in Amazon S3

Correct Answer: B

QUESTION 8

A company is relocating its data center and wants to securely transfer 50 TB of data to AWS within 2 weeks The existing data center has a Site-to-Site VPN connection to AWS that is 90% utilized. Which AWS service should a solutions architect use to meet these requirements?

A. AWS DataSync with a VPC endpoint

B. AWS Direct Connect

C. AWS Snowball Edge Storage Optimized

D. AWS Storage Gateway

Correct Answer: C

QUESTION 9

A company Is creating a new application that will store a large amount of data.

The data will be analyzed hourly and will be modified by several Amazon EC2 Linux instances that are deployed across multiple Availability Zones The needed amount of storage space will continue to grow for the next 6 months.

Which storage solution should a solutions architect recommend to meet these requirements?

A. Store the data in Amazon S3 Glacier Update the S3 Glacier vault policy to allow access to the application instances.

B. Store the data in an Amazon Elastic Block Store (Amazon EBS) volume Mount the EBS volume on the application instances.

C. Store the data in an amazon Elastic File System (Amazon EFS) file system. Mount the file system on the application instances

D. Store the data in an Amazon Elastic Block Store (Amazon ESS) Provisioned IOPS volume shared between the application instances

Correct Answer: C

QUESTION 10

The financial application at a company stores monthly reports in an Amazon S3 bucket. The vice president of finance has mandated that all access to these reports be logged and that any modifications to the log files be detected.

Which actions can a solutions architect take to meet these requirements7

A. Use S3 server access logging on the bucket that houses the reports with the read and write data events and log file validation options enabled.

B. Use S3 server access logging on the bucket that houses the reports with the read and write management events and log file validation options enabled

C. Use AWS CloudTrail to create a new trail. Configure the trail to log read and write data events on the S3 bucket that houses the reports Log these events to a new bucket, and enable log file validation

D. Use AWS CloudTrail to create a new trail. Configure the trail to log read and write management events on the S3 bucket that houses the reports. Log these events to a new bucket, and enable log file validation.

Correct Answer: C

https://docs.aws.amazon.com/awscloudtrail/latest/userguide/logging-data- events-with-cloudtrail.html

QUESTION 11

A company has developed a microservices application It uses a client-facing API with Amazon API Gateway and multiple internal services hosted on Amazon EC2 instances to process user requests The API is designed to support

unpredictable surges in traffic, but internal services may become overwhelmed and unresponsive for a period of time

during surges A solutions architect needs to design a more reliable solution that reduces errors when internal services become unresponsive or unavailable.

Which solution meets these requirements?

A. Use AWS Auto Scaling to scale up internal services when there is a surge m traffic.

B. Use different Availability Zones to host internal services Send a notification to a system administrator when an internal service becomes unresponsive

C. Use an Elastic Load Balancer to distribute the traffic between internal services Configure Amazon CloudWatch metrics to monitor traffic to internal services

D. Use Amazon Simple Queue Service (Amazon SQS) to store user requests as they arrive Change the internal services to retrieve the requests from the queue for processing

Correct Answer: D

SQS -> API Gateway as the single point of entry -> multiple internal services Because "reduces errors when internal services become unresponsive or unavailable." means it\\'s ok when they are unavailable, just need not to loose requests

QUESTION 12

A company runs a website on Amazon EC2 instances behind an ELB Application Load Balancer Amazon Route 53 Is used for the DNS The company wants to set up a backup website with a message including a phone number and email address that users can reach if the primary website is down. How should the company deploy this solution?

A. Use Amazon S3 website hosting for the backup website and a Route 53 failover routing policy

B. Use Amazon S3 website hosting for the backup website and a Route 53 latency routing policy

C. Deploy the application in another AWS Region and use ELB health checks for failover routing.

D. Deploy the application in another AWS Region and use server-side redirection on the primary website

Correct Answer: A

QUESTION 13

A meteorological startup company has a custom web application to sell weather data to its users online. The company uses Amazon DynamoDB to store its data and wants to build a new service that sends an alert to the managers of four internal teams every time a new weather event is recorded The company does not want this new service to affect the performance of the current application

What should a solutions architect do to meet these requirements with the LEAST amount of operational overhead?

A. Use DynamoDB transactions to write new event data to the table Configure the transactions to notify internal teams.

B. Have the current application publish a message to four Amazon Simple Notification Service (Amazon SNS) topics. Have each team subscribe to one topic.

C. Enable Amazon DynamoDB Streams on the table Use triggers to write to a Mingle Amazon Simple Notification Service (Amazon SNS) topic to which the teams can subscribe

D. Add a custom attribute to each record to flag new items Write a cron job that scans the table every minute for items that are new and notifies an Amazon Simple Queue Service (Amazon SQS) queue to which the teams can subscribe

Correct Answer: C

QUESTION 14

A solutions architect is designing a solution that will include a database in Amazon RDS Corporate security policy mandates that the database its logs, and its backups are all encrypted What is the MOST efficient option to fulfill the security policy using Amazon RDS?

A. Launch an Amazon RDS instance with encryption enabled Enable encryption for logs and backups

B. Launch an Amazon RDS instance Enable encryption for the database, logs, and backups

C. Launch an Amazon RDS instance with encryption enabled Logs and backups are automatically encrypted

D. Launch an Amazon RDS instance Enable encryption for backups Encrypt logs with a database- engine feature

Correct Answer: C

QUESTION 15

A company is selling up an application to use an Amazon RDS MySQL DB instance. The database must be architected for high availability across Availability Zones and AWS Regions with minimal downtime. How should a solutions architect meet this requirement?

A. Set up an RDS MySQL Multi-AZ DB instance. Configure an appropriate backup window.

B. Set up an RDS MySQL Multi-AZ DB instance. Configure a read replica in a different Region.

C. Set up an RDS MySQL Single-AZ DB instance. Configure a read replica in a different Region.

D. Set up an RDS MySQL Single-AZ DB instance. Copy automated snapshots to at least one other Region.

Correct Answer: C

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