SAA-C03 Q&As

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A development team needs to host a website that will be accessed by other teams. The website contents consist of HTML, CSS, client-side JavaScript, and images Which method is the MOST cost-effective for hosting the website?

A. Containerize the website and host it in AWS Fargate.

B. Create an Amazon S3 bucket and host the website there

C. Deploy a web server on an Amazon EC2 instance to host the website.

D. Configure an Application Loa d Balancer with an AWS Lambda target that uses the Express js framework.

Correct Answer: B

In Static Websites, Web pages are returned by the server which are prebuilt.

They use simple languages such as HTML, CSS, or JavaScript.

There is no processing of content on the server (according to the user) in Static Websites. Web pages are returned by the server with no change therefore, static Websites are fast.

There is no interaction with databases.

Also, they are less costly as the host does not need to support server-side processing with different languages.

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In Dynamic Websites, Web pages are returned by the server which are processed during runtime means they are not prebuilt web pages but they are built during runtime according to the user\\'s demand.

These use server-side scripting languages such as PHP, Node.js, ASP.NET and many more supported by the server.

So, they are slower than static websites but updates and interaction with databases are possible.

QUESTION 2

An Amazon EventBridge rule targets a third-party API. The third-party API has not received any incoming traffic. A solutions architect needs to determine whether the rule conditions are being met and if the rule\\'s target is being invoked. Which solution will meet these requirements?

A. Check for metrics in Amazon CloudWatch in the namespace for AWS/Events.

B. Review events in the Amazon Simple Queue Service (Amazon SQS) dead-letter queue.

C. Check for the events in Amazon CloudWatch Logs.

D. Check the trails in AWS CloudTrail for the EventBridge events.

Correct Answer: A

https://docs.aws.amazon.com/AmazonCloudWatch/latest/events/CloudWatch-Events-Monitoring- CloudWatch-Metrics.html

QUESTION 3

A business\\'s backup data totals 700 terabytes (TB) and is kept in network attached storage (NAS) at its data center. This backup data must be available in the event of occasional regulatory inquiries and preserved for a period of seven years. The organization has chosen to relocate its backup data from its on-premises data center to Amazon Web Services (AWS). Within one month, the migration must be completed. The company\\'s public internet connection provides 500 Mbps of dedicated capacity for data transport.

What should a solutions architect do to ensure that data is migrated and stored at the LOWEST possible cost?

A. Order AWS Snowball devices to transfer the data. Use a lifecycle policy to transition the files to Amazon S3 Glacier Deep Archive.

B. Deploy a VPN connection between the data center and Amazon VPC. Use the AWS CLI to copy the data from on premises to Amazon S3 Glacier.

C. Provision a 500 Mbps AWS Direct Connect connection and transfer the data to Amazon S3. Use a lifecycle policy to transition the files to Amazon S3 Glacier Deep Archive.

D. Use AWS DataSync to transfer the data and deploy a DataSync agent on premises. Use the DataSync task to copy files from the on-premises NAS storage to Amazon S3 Glacier.

Correct Answer: A

QUESTION 4

A solution architect is using an AWS CloudFormation template to deploy a three-tier web application. The web application consist of a web tier and an application that stores and retrieves user data in Amazon DynamoDB tables. The web and application tiers are hosted on Amazon EC2 instances, and the database tier is not publicly accessible. The application EC2 instances need to access the Dynamo tables Without exposing API credentials in the template.

What should the solution architect do to meet the requirements?

A. Create an IAM role to read the DynamoDB tables. Associate the role with the application instances by referencing an instance profile.

B. Create an IAM role that has the required permissions to read and write from the DynamoDB tables. Add the role to the EC2 instance profile, and associate the instances profile with the application instances.

C. Use the parameter section in the AWS CloudFormation template to have the user input access and secret keys from an already-created IAM user that has the required permissions to read and write from the DynamoDB tables.

D. Create an IAM user in the AWS CloudFormation template that has the required permissions to read and write from the DynamoDB tables. Use the GetAtt function to retrieve the access secret keys, and pass them to the application instances through the user data.

Correct Answer: B

QUESTION 5

A company\\'s web application that is hosted in the AWS Cloud recently increased in popularity. The web application

currently exists on a single Amazon EC2 instance in a single public subnet. The web application has not been able to meet

the demand of the increased web traffic.

The company needs a solution that will provide high availability and scalability to meet the increased user demand without rewriting the web application.

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

A. Replace the EC2 instance with a larger compute optimized instance.

B. Configure Amazon EC2 Auto Scaling with multiple Availability Zones in private subnets.

C. Configure a NAT gateway in a public subnet to handle web requests.

D. Replace the EC2 instance with a larger memory optimized instance.

E. Configure an Application Load Balancer in a public subnet to distribute web traffic.

Correct Answer: BE

QUESTION 6

A company runs a latency-sensitive gaming service in the AWS Cloud. The gaming service runs on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). An Amazon DynamoDB table stores the gaming data. All he

infrastructure is in a single AWS Region. The main user base is in that same Region.

A solutions architect needs to update the architect to support a global expansion of the gaming service must operate with the least possible latency.

Which solution will meet these requirements?

A. Create an Amazon CloudFront distribution in front of the ALB.

B. Deploy an Amazon API Gateway regional API endpoint. Integrate the API endpoint with the ALB.

C. Create an accelerator in AWS Global Accelerator. Add a listener. Configure the endpoint to point to the ALB.

D. Deploy the ALB and the fleet of EC2 instances to another Region. Use Amazon Route 53 geolocation routing.

Correct Answer: C

QUESTION 7

A company is hosting a web application on AWS using a single Amazon EC2 instance that stores user-uploaded documents in an Amazon EBS volume. For better scalability and availability, the company duplicated the architecture and created a second EC2 instance and EBS volume in another Availability Zone placing both behind an Application Load Balancer After completing this change, users reported that, each time they refreshed the website, they could see one subset of their documents or the other, but never all of the documents at the same time.

What should a solutions architect propose to ensure users see all of their documents at once?

A. Copy the data so both EBS volumes contain all the documents.

B. Configure the Application Load Balancer to direct a user to the server with the documents

C. Copy the data from both EBS volumes to Amazon EFS Modify the application to save new documents to Amazon EFS

D. Configure the Application Load Balancer to send the request to both servers Return each document from the correct server.

Correct Answer: C

C is right answer, user will never get all the documents at one place in other solutions
https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html#how-it-works-ec2

QUESTION 8

A company hosts a multi-tier web application that uses an Amazon Aurora MySQL DB cluster for storage. The application tier is hosted on Amazon EC2 instances. The company\\'s IT security guidelines mandate that the database credentials be encrypted and rotated every 14 days

What should a solutions architect do to meet this requirement with the LEAST operational effort?

A. Create a new AWS Key Management Service (AWS KMS) encryption key Use AWS Secrets Manager to create a new secret that uses the KMS key with the appropriate credentials Associate the secret with the Aurora DB cluster Configure a custom rotation period of 14 days

B. Create two parameters in AWS Systems Manager Parameter Store one for the user name as a string parameter and one that uses the SecureStnng type for the password Select AWS Key Management Service (AWS KMS) encryption for the password parameter, and load these parameters in the application tier Implement an AWS Lambda function that rotates the password every 14 days.

C. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon Elastic File System (Amazon EFS) file system Mount the EFS file system in all EC2 instances of the application tier. Restrict the access to the file on the file system so that the application can read the file and that only super users can modify the file Implement an AWS Lambda function that rotates the key in Aurora every 14 days and writes new credentials into the file

D. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon S3 bucket that the application uses to load the credentials Download the file to the application regularly to ensure that the correct credentials are used Implement an AWS Lambda function that rotates the Aurora credentials every 14 days and uploads these credentials to the file in the S3 bucket

Correct Answer: A

AWS Secrets Manager allows you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. With this service, you can automate the rotation of secrets, such as database credentials, on a schedule that you choose. The solution allows you to create a new secret with the appropriate credentials and associate it with the Aurora DB cluster. You can then configure a custom rotation period of 14 days to ensure that the credentials are automatically rotated every two weeks, as required by the IT security guidelines. This approach requires the least amount of operational effort as it allows you to manage secrets centrally without modifying your application code or infrastructure.

QUESTION 9

An online video game company must maintain ultra-low latency for its game servers. The game servers run on Amazon EC2 instances. The company needs a solution that can handle millions of UDP internet traffic requests each second.

Which solution will meet these requirements MOST cost-effectively?

A. Configure an Application Load Balancer with the required protocol and ports for the internet traffic. Specify the EC2 instances as the targets.

B. Configure a Gateway Load Balancer for the internet traffic. Specify the EC2 instances as the targets.

C. Configure a Network Load Balancer with the required protocol and ports for the internet traffic. Specify the EC2 instances as the targets.

D. Launch an identical set of game servers on EC2 instances in separate AWS Regions. Route internet traffic to both sets of EC2 instances.

Correct Answer: C

QUESTION 10

A financial services company launched a new application that uses an Amazon RDS for MySQL database. The company uses the application to track stock market trends. The company needs to operate the application for only 2 hours at the end of each week. The company needs to optimize the cost of running the database.

Which solution will meet these requirements MOST cost-effectively?

A. Migrate the existing RDS for MySQL database to an Aurora Serverless v2 MySQL database cluster.

B. Migrate the existing RDS for MySQL database to an Aurora MySQL database cluster.

C. Migrate the existing RDS for MySQL database to an Amazon EC2 instance that runs MySQL. Purchase an instance reservation for the EC2 instance.

D. Migrate the existing RDS for MySQL database to an Amazon Elastic Container Service (Amazon ECS) cluster that uses MySQL container images to run tasks.

Correct Answer: A

QUESTION 11

An ecommerce company wants to collect user clickstream data from the company\\'s website for real-time analysis. The website experiences fluctuating traffic patterns throughout the day. The company needs a scalable solution that can adapt to varying levels of traffic.

Which solution will meet these requirements?

A. Use a data stream in Amazon Kinesis Data Streams in on-demand mode to capture the clickstream data. Use AWS Lambda to process the data in real time.

B. Use Amazon Kinesis Data Firehose to capture the clickstream data. Use AWS Glue to process the data in real time.

C. Use Amazon Kinesis Video Streams to capture the clickstream data. Use AWS Glue to process the data in real time.

D. Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to capture the clickstream data. Use AWS Lambda to process the data in real time.

Correct Answer: A

QUESTION 12

A company uses 50 TB of data for reporting. The company wants to move this data from on premises to AWS A custom application in the company\\'s data center runs a weekly data transformation job. The company plans to pause the application until the data transfer is complete and needs to begin the transfer process as soon as possible.

The data center does not have any available network bandwidth for additional workloads A solutions architect must transfer the data and must configure the transformation job to continue to run in the AWS Cloud

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

A. Use AWS DataSync to move the data Create a custom transformation job by using AWS Glue

B. Order an AWS Snowcone device to move the data Deploy the transformation application to the device

C. Order an AWS Snowball Edge Storage Optimized device. Copy the data to the device. Create a custom transformation job by using AWS Glue

D. Order an AWS D. Snowball Edge Storage Optimized device that includes Amazon EC2 compute Copy the data to the device Create a new EC2 instance on AWS to run the transformation application

Correct Answer: C

QUESTION 13

A medical records company is hosting an application on Amazon EC2 instances. The application processes customer data files that are stored on Amazon S3. The EC2 instances are hosted in public subnets. The EC2 instances access Amazon S3 over the internet, but they do not require any other network access.

A new requirement mandates that the network traffic for file transfers take a private route and not be sent over the internet.

Which change to the network architecture should a solutions architect recommend to meet this requirement?

A. Create a NAT gateway. Configure the route table for the public subnets to send traffic to Amazon S3 through the NAT gateway.

B. Configure the security group for the EC2 instances to restrict outbound traffic so that only traffic to the S3 prefix list is permitted.

C. Move the EC2 instances to private subnets. Create a VPC endpoint for Amazon S3, and link the endpoint to the route table for the private subnets

D. Remove the internet gateway from the VPC. Set up an AWS Direct Connect connection, and route traffic to Amazon

S3 over the Direct Connect connection.

Correct Answer: C

Application must be moved in Private subnet. This is a prerequisite in using VPC endpoints with S3
https://aws.amazon.com/blogs/storage/managing-amazon-s3-access-with-vpc-endpoints-and-s3-access-points/

QUESTION 14

A company wants to enhance its ecommerce order-processing application that is deployed on AWS. The application must process each order exactly once without affecting the customer experience during unpredictable traffic surges. Which solution will meet these requirements?

A. Create an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Put all the orders in the SQS queue. Configure an AWS Lambda function as the target to process the orders.

B. Create an Amazon Simple Notification Service (Amazon SNS) standard topic. Publish all the orders to the SNS standard topic. Configure the application as a notification target.

C. Create a flow by using Amazon AppFlow. Send the orders to the flow. Configure an AWS Lambda function as the target to process the orders.

D. Configure AWS X-Ray in the application to track the order requests. Configure the application to process the orders by pulling the orders from Amazon CloudWatch.

Correct Answer: A

The application must process each order exactly once == SQS + FIFO

QUESTION 15

A company has a small Python application that processes JSON documents and outputs the results to an on-premises SQL database. The application runs thousands of times each day. The company wants to move the application to the AWS Cloud. The company needs a highly available solution that maximizes scalability and minimizes operational overhead.

Which solution will meet these requirements?

A. Place the JSON documents in an Amazon S3 bucket. Run the Python code on multiple Amazon EC2 instances to process the documents. Store the results in an Amazon Aurora DB cluster.

B. Place the JSON documents in an Amazon S3 bucket. Create an AWS Lambda function that runs the Python code to process the documents as they arrive in the S3 bucket. Store the results in an Amazon Aurora DB cluster.

C. Place the JSON documents in an Amazon Elastic Block Store (Amazon EBS) volume. Use the EBS Multi-Attach feature to attach the volume to multiple Amazon EC2 instances. Run the Python code on the EC2 instances to process the documents. Store the results on an Amazon RDS DB instance.

D. Place the JSON documents in an Amazon Simple Queue Service (Amazon SQS) queue as messages. Deploy the Python code as a container on an Amazon Elastic Container Service (Amazon ECS) cluster that is configured with the Amazon EC2 launch type. Use the container to process the SQS messages. Store the results on an Amazon RDS DB instance.

Correct Answer: B