SAA-C02^Q&As

AWS Certified Solutions Architect - Associate (SAA-C02)

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QUESTION 1

A solutions architect needs to design a centralized logging solution for a group of web applications running on Amazon EC2 instances. The solution requires minimal development effort due to budget containts.

What should the architect recommend?

A. Create a crontab job script in each instance to regularly push the logs to Amazon S3

B. Install and configure Amazon CloudWatch Logs agent in the Amazon EC2 instances

C. Enable Amazon EventBridge (Amazon CloudWatch Events) in the AWS Management Console.

D. Enable AWS Cloud Trail to map all API Calls invoked by the applications

Correct Answer: B

https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/QuickStartEC2Instance.html

QUESTION 2

A company has two applications it wants to migrate to AWS. Both applications process a large set of files by accessing the same files at the same time. Both applications need to read the files with low latency. Which architecture should a solutions architect recommend for this situation?

A. Configure two AWS Lambda functions to run the applications. Create an Amazon EC2 instance with an instance store volume to store the data.

B. Configure two AWS Lambda functions to run the applications. Create an Amazon EC2 instance with an Amazon Elastic Block Store (Amazon EBS) volume to store the data.

C. Configure one memory optimized Amazon EC2 instance to run both applications simultaneously.Create an Amazon Elastic Block Store (Amazon EBS) volume with Provisioned IOPS to store the data.

D. Configure two Amazon EC2 instances to run both applications. Configure Amazon Elastic File System (Amazon EFS) with General Purpose performance mode and Bursting Throughput mode to store the data.

Correct Answer: D

QUESTION 3

An administrator of a large company wants to monitor for and prevent any cryptocurrency-related attacks on the company"s AWS accounts Which AWS service can the administrator use to protect the company against attacks?

A. Amazon Cognito

B. Amazon GuardDuty

C. Amazon Inspector

D. Amazon Macie

Correct Answer: B

QUESTION 4

A company needs a storage solution for an application that runs on a high performance computing (HPC) cluster. The cluster is hosted on AWS Fargate for Amazon Elastic Container Service (Amazon ECS) The company needs a mountable file system that provides concurrent access to files while delivering hundreds of GBps of throughput at sub-millisecond latencies

Which solution meets these requirements?

A. Create an Amazon FSx for Lustre file share for the application data Create an IAM role that allows Fargate to access the FSx for Lustre file share

B. Create an Amazon Elastic File System (Amazon EFS) file share for the application data. Create an IAM role that allows Fargate to access the EFS file share.

C. Create an Amazon S3 bucket for the application data. Create an S3 bucket policy that allows Fargate to access the S3 bucket

D. Create an Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS SSD (io2) volume for the application data Create an IAM role that allows Fargate to access the volume.

Correct Answer: A

QUESTION 5

A company has created a VPC with multiple private subnets in multiple Availability Zones (AZs) and one public subnet in one of the AZs. The public subnet is used to launch a NAT gateway. There are instance in the private subnet that use a

NAT gateway to connect to the internet. In case of an AZ failure, the company wants to ensure that the instance are not all experiencing internet connectivity issues and that there is a backup plan ready.

Which solution should a solutions architect recommend that is MOST highly available?

A. Create a new public subnet with a NAT gateway in the same AZ Distribute the traffic between the two NAT gateways

B. Create an Amazon EC2 NAT instance in a now public subnet Distribute the traffic between the NAT gateway and the NAT instance

C. Create public subnets In each AZ and launch a NAT gateway in each subnet Configure the traffic from the private subnets In each A2 to the respective NAT gateway

D. Create an Amazon EC2 NAT instance in the same public subnet Replace the NAT gateway with the NAT instance and associate the instance with an Auto Scaling group with an appropriate scaling policy.

Correct Answer: C

QUESTION 6

A company is deploying an application in three AWS Regions using an Application Load Balancer Amazon Route 53 will be used to distribute traffic between these Regions. Which Route 53 configuration should a solutions architect use to provide the MOST high-performing experience?

A. Create an A record with a latency policy.

B. Create an A record with a geolocation policy.

C. Create a CNAME record with a failover policy.

D. Create a CNAME record with a geoproximity policy.

Correct Answer: A

QUESTION 7

A solutions architect is designing a highly available website that is served by multiple web servers hosted outside of AWS. If an instance becomes unresponsive, the architect needs to remove it from the rotation. What is the MOST efficient way to fulfill this requirement?

A. Use Amazon CloudWatch to monitor utilization.

B. Use Amazon API Gateway to monitor availability.

C. Use an Amazon Elastic Load Balancer.

D. Use Amazon Route 53 health checks.

Correct Answer: C

QUESTION 8

A company mandates that an Amazon S3 gateway endpoint must allow traffic to trusted buckets only Which method should a solutions architect implement to meet this requirement?

A. Create a bucket policy for each of the company\\'s trusted S3 buckets that allows traffic only from the company\\'s trusted VPCs

B. Create a bucket policy for each of the company\\'s trusted S3 buckets that allows traffic only from the company\\'s S3 gateway endpoint IDs

C. Create an S3 endpoint policy for each of the company\\'s S3 gateway endpoints that blocks access from any VPC other than the company\\'s trusted VPCs

D. Create an S3 endpoint policy for each of the company\\'s S3 gateway endpoints that provides access to the Amazon Resource Name (ARN) of the trusted S3 buckets

Correct Answer: D

QUESTION 9

A solutions architect is creating a new Amazon CloudFront distribution for an application Some of the information submitted by users is sensitive The application uses HTTPS but needs another layer of security. The sensitive information

should be protected throughout the entire application stack, and access to the information should be restricted to certain applications.

Which action should the solutions architect take?

A. Configure a CloudFront signed URL

B. Configure a CloudFront signed cookie.

C. Configure a CloudFronl field-level encryption profile.

D. Configure CloudFront and set the Origin Protocol Policy setting to HTTPS Only for the Viewer Protocol Pokey

Correct Answer: D

QUESTION 10

A company is concerned about the security of its public web application due to recent web attacks The application uses an Application Load Balancer (ALB) A solutions architect must reduce the risk of DDoS attacks against the application. What should the solutions architect do to meet this requirement?

A. Add an Amazon Inspector agent to the ALB

B. Configure Amazon Macie to prevent attacks

C. Enable AWS Shield Advanced to prevent attacks

D. Configure Amazon GuardDuty to monitor the ALB

Correct Answer: C

QUESTION 11

A company Is seeing access requests by some suspicious IP addresses. The security team discovers the requests are horn different IP addresses under the same CIDR range. What should a solutions architect recommend to the team?

A. Add a rule in the inbound table of the security group to deny the traffic from that CIDR range.

B. Add a rule In the outbound table of the security group to deny the traffic from that CIDR range

C. Add a deny rule in the Inbound table of the network ACL with a lower rule number than other rules.

D. Add a deny rule in the outbound table of the network ACL with a tower rule number than other rules.

Correct Answer: C

QUESTION 12

A company wants to move a multi-tiered application from on premises to the AWS Cloud to improve the application\\'s performance. The application consists of application tiers that communicate with each other by way of RESTful services.

Transactions are dropped when one tier becomes overloaded A solutions architect must design a solution that resolves these issues and modernizes the application.

Which solution meets these requirements and is the MOST operationally efficient?

A. Use Amazon API Gateway and direct transactions to the AWS Lambda functions as the application layer Use Amazon Simple Queue Service (Amazon SQS) as the communication layer between application services.

B. Use Amazon CloudWatch metrics to analyze the application performance history to determine the servers\\' peak utilization during the performance failures Increase the size of the application server\\'s Amazon EC2 instances to meet the peak requirements.

C. Use Amazon Simple Notification Service (Amazon SNS) to handle the messaging between application servers running on Amazon EC2 in an Auto Scaling group Use Amazon CloudWatch to monitor the SNS queue length and scale up and down as required

D. Use Amazon Simple Queue Service (Amazon SQS) to handle the messaging between application servers running on Amazon EC2 in an Auto Scaling group Use Amazon CloudWatch to monitor the SQS queue length and scale up when communication failures are detected

Correct Answer: D

QUESTION 13

A solutions architect must migrate a Windows Internet Information Services (IIS) web application to AWS The application currently relies on a file share hosted in the user\\'s on-premises network- attached storage (NAS). The solutions architect has proposed migrating the IIS web servers to Amazon EC2 instances in multiple Availability Zones that are connected to the storage solution, and configuring an Elastic Load Balancer attached to the instances. Which replacement to the on- premises file share is MOST resilient and durable?

A. Migrate the file share to Amazon RDS.

B. Migrate the file share to AWS Storage Gateway.

C. Migrate the file share to Amazon FSx for Windows File Server.

D. Migrate the file share to Amazon Elastic File System (Amazon EFS)

Correct Answer: C

QUESTION 14

A company has NFS servers in an on-premises data center that need to periodically back up small amounts of data to

Amazon S3. Which solution marts these requirement and is MOST cost-effective?

A. Set up AWS Glue lo copy the data from the on-premises servers to Amazon S3.

B. Set up an AWS DataSync agent on Vie on-premises servers, and sync the data lo Amazon S3

C. Set up an SFTP sync using AWS Transfer for SFTP lo sync data from on premises lo Amazon S3

D. Set up an AWS Direct Connect connection between the on-premises data center and a VPC, and copy the data to Amazon S3

Correct Answer: B

QUESTION 15

A medical company is designing a new application that gathers symptoms from patients The company has decided to use Amazon Simple Queue Service (Amazon SQS) and Amazon Simple Notification Service (Amazon SNS) in the architecture A solutions architect is reviewing the infrastructure design Data must be encrypted while at rest and in transit Only authorized personnel of the company can access the data Which combination of steps should the solutions architect take to meet these requirements\\'? (Select TWO)

A. Turn on server-side encryption on the SQS components Update the default key policy to restrict key usage to a set of authorized principals

B. Turn on server-side encryption on the SNS components by using a custom CMK Apply a key policy to restrict key usage to a set of authorized principals

C. Turn on encryption on the SNS components Update the default key policy to restrict key usage to a set of authorized principals Set a condition in the topic policy to allow only encrypted connections over TLS.

D. Turn on server-side encryption on the SQS components by using a custom CMK. Apply a key policy to restrict key usage to a set of authonzed pnncipals Set a condition in the queue policy to allow only encrypted connections over TLS.

E. Turn on server-side encryption on the SQS components by using a custom CMK. Apply an 1AM policy to restrict key usage to a set of authorized principals Set a condition in the queue policy to allow only encrypted connections over TLS.

Correct Answer: CD