

- **Vendor: Amazon**
- **Exam Code: SAA-C02**
- **Exam Name: AWS Certified Solutions Architect - Associate**
- **New Questions (Apr/2021)**

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**NEW QUESTION 631**

A solutions architect is designing an elastic application that will have between 10 and 50 Amazon EC2 concurrent instances running depending on the load. Each instance must mount storage that will read and write to the same 50 GB folder. Which storage type meets the requirements?

- A. Amazon S3.
- B. Amazon Elastic File System (Amazon EFS).
- C. Amazon Amazon Elastic Block Store (Amazon EBS) volumes.
- D. Amazon EC2 instance store.

Answer: B

**NEW QUESTION 632**

A company stops a cluster of Amazon EC2 instances over a weekend. The costs decrease, but they do not drop to zero. Which resources could still be generating costs? (Choose two.)

- A. Elastic IP address.
- B. Data transfer out.
- C. Regional data transfers.
- D. Amazon Elastic Block Store (Amazon EBS) volumes.
- E. AWS Auto Scaling.

Answer: AD

**NEW QUESTION 633**

A company expects its user base to increase five times over one year. Its application is hosted in one region and uses an Amazon RDS for MySQL database, an Application Load Balance Amazon Elastic Container Service (Amazon ECS) to host the website and its microservices. Which design changes should a solutions architect recommend to support the expected growth? (Choose two.)

- A. Move static files from Amazon ECS to Amazon S3.
- B. Use an Amazon Route 53 geolocation routing policy.
- C. Scale the environment based on real-time AWS CloudTrail logs.
- D. Create a dedicated Elastic Load Balancer for each microservice.
- E. Create RDS lead replicas and change the application to use these replicas.

Answer: AE

**NEW QUESTION 634**

A company has an application running on Amazon EC2 On-Demand Instances. The application does not scale, and the Instances run in one AWS Region. The company wants the flexibility to change the operating system from Windows to AWS Linux in the future. The company needs to reduce the cost of the instances without creating additional operational overhead or changes to the application. What should the company purchase to meet these requirements MOST cost-effectively?

- A. Dedicated Hosts for the Instance type being used.
- B. A Compute Savings Plan for the instance type being used.
- C. An EC2 Instance Savings Plan (or the instance type being used).
- D. Convertible Reserved Instances for the instance type being used.

Answer: D

NEW QUESTION 635

A company has an application running as a service in Amazon Elastic Container Service (Amazon ECS) using the Amazon launch type. The application code makes AWS API calls to publish messages to Amazon Simple Queue Service (Amazon SQS). What is the MOST secure method of giving the application permission to publish messages to Amazon SQS?

- A. Use AWS identity and Access Management (IAM) to grant SQS permissions to the role used by the launch configuration for the Auto Scaling group of the ECS cluster.
- B. Create a new IAM user with SQS permissions. The update the task definition to declare the access key ID and secret access key as environment variables.
- C. Create a new IAM role with SQS permissions. The update the task definition to use this role for the task role setting.
- D. Update the security group used by the ECS cluster to allow access to Amazon SQS.

Answer: B

NEW QUESTION 636

An application launched on Amazon EC2 instances needs to publish personally identifiable information (PH) about customers using Amazon Simple Notification Service (Amazon SNS). The application is launched in private subnets within an Amazon VPC. What is the MOST secure way to allow the application to access service endpoints in the same AWS Region?

- A. Use an internet gateway.
- B. Use AWS PrivateLink.
- C. Use a NAT gateway.
- D. Use a proxy instance.

Answer: B

NEW QUESTION 637

A company fails an AWS security review conducted by a third party. The review finds that some of the company's methods to access the Amazon EMR API are not secure. Developers are using AWS Cloud9, and access keys are connecting to the Amazon EMR API through the public internet. Which combination of steps should the company take to MOST improve its security? (Choose two.)

- A. Set up a VPC peering connection to the Amazon EMR API.
- B. Set up VPC endpoints to connect to the Amazon EMR API.
- C. Set up a NAT gateway to connect to the Amazon EMR API.
- D. Set up IAM roles to be used to connect to the Amazon EMR API.
- E. Set up each developer with AWS Secrets Manager to store access keys.

Answer: BD

NEW QUESTION 638

A company is rolling out a new web service, but is unsure how many customers the service will attract. However, the company is unwilling to accept any downtime. What could a solutions architect recommend to the company to keep?

- A. Amazon EC2
- B. Amazon RDS
- C. AWS CloudTrail
- D. Amazon DynamoDB

Answer: B

NEW QUESTION 639

A restaurant reservation application needs to access a waiting list. When a customer tries to reserve a table, and none are available, the customer application will put the user on the waiting list, and the application will notify the customer when a table becomes free. The waiting list must preserve the order in which customers were added to the waiting list. Which service should the solutions architect recommend to store this waiting list?

- A. Amazon Simple Notification Service (Amazon SNS).
- B. AWS Step Functions invoking AWS Lambda functions.
- C. A FIFO queue in Amazon Simple Queue Service (Amazon SQS).
- D. A standard queue in Amazon Simple Queue Service (Amazon SQS).

Answer: C

**NEW QUESTION 640**

A solutions architect is designing an architecture that includes web application and database tiers. The web tier must be capable of auto scaling. The solutions architect has decided to separate each tier into its own subnets. The design includes two public subnets and four private subnets. The security team requires that tiers be able to communicate with each other only when there is a business need and that all other network traffic be blocked. What should the solutions architect do to meet these requirements?

- A. Create an Amazon GuardDuty source/destination rule set to control communication.
- B. Create one security group for all tiers to limit traffic to only the required source and destinations.
- C. Create specific security groups for each tier to limit traffic to only the required source and destinations.
- D. Create network ACLs in all six subnets to limit traffic to the sources and destinations required for the application to function.

Answer: D

**NEW QUESTION 641**

An ecommerce application places orders in an Amazon Simple Queue Service (Amazon SQS) queue. When a message is received, the Amazon EC2 worker instances process the request. The EC2 instances are in an Auto Scaling group. How should the architecture be designed to scale the auto scaling group with the LEAST amount of operational overhead?

- A. Use an Amazon CloudWatch alarm on the EC2 CPU to scale the Auto Scaling group up and down.
- B. Use an Amazon EC2 Auto Scaling health check for messages processed on the EC2 instances to scale up or down.
- C. Use an Amazon CloudWatch alarm based on the number of messages in the queue to scale the Auto Scaling group up or down.
- D. Use an Amazon CloudWatch alarm based on the CPU to scale the Auto Scaling group up or down.

Answer: C

**NEW QUESTION 642**

A solutions architect is using an AWS CloudFormation template to deploy a three-tier web application. The web application consists of a web tier and an application tier 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 DynamoDB tables without exposing API credentials in the template. What should the solutions architect do to meet these requirements?

- A. Create an IAM role to read the DynamoDB tables. Associate the role with the application instances by reference in 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 instance 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 and secret keys and pass them to the application instances through the user data.

Answer: B

**NEW QUESTION 643**

A company is using various types of Amazon EC2 On-Demand Instances. The company suspects that these instances have greater CPU and memory capacity than its workloads require. Which actions should the company take to obtain recommendations to optimize cost? (Choose two.)

- A. Use AWS Trusted Advisor for instance type recommendations.
- B. Use AWS Compute Optimizer for instance type recommendations.
- C. Use AWS Budgets for instance type recommendations.
- D. Use Cost Explorer right sizing recommendations.

- E. Use Amazon Inspector to identify under utilized EC2 instances.

Answer: AD

NEW QUESTION 644

A company receives data from different sources and implements multiple applications to consume this data. There are many short-running jobs that run only on the weekend. The data arrives in batches rather than throughout the entire weekend. The company needs an environment on AWS to ingest and process this data while maintaining the order of the transactions. Which combination of AWS services meets these requirements in the MOST cost-effective manner?

- A. Amazon Kinesis Data Streams with AWS Lambda.
- B. Amazon Kinesis Data Streams with Amazon EC2 Auto Scaling.
- C. Amazon Simple Queue Service (Amazon SQS) with AWS Lambda.
- D. Amazon Simple Queue Service (Amazon SQS) with Amazon EC2 Auto Scaling.

Answer: C

NEW QUESTION 645

A company is using various types of Amazon EC2 On-Demand instances. The company suspects that these instances have greater CPU and memory capacity than its workloads require. Which actions should the company take to obtain recommendation to optimize cost? (Choose two.)

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- B. Use AWS Compute Optimizer for instance type recommendations.
- C. Use AWS Budgets for instance type recommendations.
- D. Use Cost Explorer rightsizing recommendations.
- E. Use Amazon Inspector to identify underutilized EC2 instances.

Answer: AD

NEW QUESTION 646

A company has an AWS Direct Connect connection from its corporate data center to its VPC in the us-east-1 Region. The company recently acquired a corporation that has several VPCs and a Direct Connect connection between its on-premises data center and the eu-west-2 Region. The CIDR blocks for the VPCs of the company and the corporation do not overlap. The company requires connectivity between two Regions and the data centers. The company needs a solution that is scalable while reducing operational overhead. What should a solutions architect do to meet these requirements?

- A. Set up inter-Region VPC peering between the VPC in us-east-1 and the VPCs in eu-west-2.
- B. Create private virtual interfaces from the Direct Connect connection in us-east-1 to the VPCs in eu-west-2.
- C. Establish VPN appliances in a fully meshed VPN network hosted by Amazon EC2. Use AWS VPN CloudHub to send and receive data between the data centers and each VPC.
- D. Connect the existing Direct Connect connection to a Direct Connect gateway. Route traffic from the virtual private gateways of the VPCs in each Region to the Direct Connect gateway.

Answer: D

NEW QUESTION 647

A user owns a MySQL database that is accessed by various clients who expect, at most, 100 ms latency on requests. Once a record is stored in the database, it is rarely changed. Clients only access one record at a time. Database access has been increasing exponentially due to increased client demand. The resultant load will soon exceed the capacity of the most expensive hardware available for purchase. The user wants to migrate to AWS, and is willing to change database systems. Which service would alleviate the database load issue and offer virtually unlimited scalability for the future?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon Redshift
- D. AWS Data Pipeline

Answer: B

NEW QUESTION 648

What should a solutions architect do to optimize utilization MOST cost-effectively?

- A. Enable auto scaling on the original Aurora Database.

- B. Convert the original Aurora Database to Aurora parallel query.
- C. Convert the original Aurora Database to Aurora global database.
- D. Convert the original Aurora Database to Aurora Aurora serverless.

Answer: D

**NEW QUESTION 649**

A solutions architect is reviewing the cost of a company's scheduled nightly maintenance. The solutions architect notices that three Amazon EC2 instances are being run to perform nine scripted tasks that take less than 5 minutes each to complete. The scripts are all written in Python. Which action should the company take to optimize costs of the nightly maintenance?

- A. Consolidate the scripts from the three EC2 instances to run on one EC2 instance.
- B. Convert the scripts to AWS Lambda functions and schedule them with Amazon EventBridge (Amazon CloudWatch Events).
- C. Purchase a Compute Savings Plan for the running EC2 instances.
- D. Create a Spot Fleet to replace the running EC2 instances for executing the scripts.

Answer: B

**NEW QUESTION 650**

A company runs an online media site, hosted on-premises. An employee posted a product review that contained videos and pictures. The review went viral and the company needs to handle the resulting spike in website traffic. What action would provide an immediate solution?

- A. Redesign the website to use Amazon API Gateway, and use AWS Lambda to deliver content.
- B. Add server instances using Amazon EC2 and use Amazon Route 53 with a failover routing policy.
- C. Serve the images and videos using an Amazon CloudFront distribution created using the news site as the origin.
- D. Use Amazon ElastiCache for Redis for caching and reducing the load requests from the origin.

Answer: C

**NEW QUESTION 651**

A company has several web servers that need to frequently access a common Amazon RDS MySQL Multi-AZ instance. The company wants a secure method for the web servers to connect to the database while meeting a security requirement to rotate user credentials frequently. A company has several web servers that need to frequently access a common Amazon ROS MySQL Muto-AZ DB instance. The company wants a secure method for the web servers to connect to the database while meeting a security requirement to rotate user credentials frequently. Which solution meets these requirements?

- A. Store the database user credentials in AWS Secrets Manager.  
Grant the necessary IAM permissions to allow the web servers to access AWS Secrets Manager.
- B. Store the database user credentials m AWS Systems Manager OpsCenter.  
Grant the necessary IAM permissions to allow the web servers to access OpsCenter.
- C. Store the database user credentials in a secure Amazon S3 bucket.  
Grant the necessary IAM permissions to allow the web servers to retrieve credentials and access the database.
- D. Store the database user credentials in fries encrypted with AWS Key Management Service (AWS KMS) on the web server file system.  
The web server should be able to decrypt the files and access the database.

Answer: A

**NEW QUESTION 652**

A company has an asynchronous web application where Amazon API Gateway triggers AWS Lambda functions to perform write and update operations on an Amazon RDS DB instance. During periods of extreme use API Gateway and Lambda scale in response to the incoming workload but service outages occur due to congestion with Amazon RDS. The company is seeking a cost-effective design to alleviate this congestion. What should a solutions architect recommend?

- A. implement RDS storage autoscaling with a larger instance type.
- B. Create read replicas to alleviate me read requests on the database.
- C. Use Amazon Kinesis to poll the incoming requests from API Gateway to the Lambda functions.
- D. Use Amazon Simple Queue Service (Amazon SQS) to buffer the incoming requests before delivering them to the Lambda functions.

Answer: D

NEW QUESTION 653

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.

Answer: C

NEW QUESTION 654

A company is using Amazon DynamoDB to stage its product catalog which is 1 GB. Since a product entry on average consists of 100 KB of data, and the average traffic is about 250 requests per second, the database administrator has provisioned 3,000 RCUs of read capacity throughput. However, some products are very popular and users are experiencing delays or timeouts due to throttling. What improvement offers a long-term solution to this problem?

- A. Increase the throughput provisioning to 6,000 read capacity units (RCUs).
- B. Use Amazon DynamoDB Accelerator to maintain the frequently read items.
- C. Augment Amazon DynamoDB by storing only the key product attributes, with the details stored on Amazon S3.
- D. Change the partition key to consist of a hash of product key and product type instead of just the product key.

Answer: B

NEW QUESTION 655

A company needs guaranteed Amazon EC2 capacity in three specific Availability Zones in a specific AWS Region for an upcoming event that will last 1 week. What should the company do to guarantee the EC2 capacity?

- A. Purchase Reserved Instances that specify the Region needed.
- B. Create an On-Demand Capacity Reservation that specifies the Region needed.
- C. Purchase Reserved Instances that specify the Region and three Availability Zones needed.
- D. Create an On-Demand Capacity Reservation that specifies the Region and three Availability Zones needed.

Answer: A

NEW QUESTION 656

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