Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

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NEW QUESTION 1

A solutions architect is tasked with transferring 750 TB of data from a network-attached file system located at a branch office to Amazon S3 Glacier The solution must avoid saturating the branch office's low-bandwidth internet connection
What is the MOST cost-effective solution1?

A. Create a site-to-site VPN tunnel to an Amazon S3 bucket and transfer the files directly Create a bucket policy to enforce a VPC endpoint
B. Order 10 AWS Snowball appliances and select an S3 Glacier vault as the destination Create a bucket policy to enforce a VPC endpoint
C. Mount the network-attached file system to Amazon S3 and copy the files directl
D. Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier
E. Order 10 AWS Snowball appliances and select an Amazon S3 bucket as the destination Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier

Answer: D

NEW QUESTION 2

A company has deployed an API in a VPC behind an internet-facing Application Load Balancer (ALB) An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal.
Which combination of architectural changes will reduce the NAT gateway costs'? (Select TWO)

A. Configure a VPC peering connection between the two VPC
B. Access the API using the private address
C. Configure an AWS Direct Connect connection between the two VPC
D. Access the API using the private address.
E. Configure a ClassicLink connection for the API into the client VPC Access the API using the ClassicLink address.
F. Configure a PrivateLink connection for the API into the client VP
G. Access the API using the PrivateLink address.
H. Configure an AWS Resource Access Manager connection between the two accounts Access the API using the private address

Answer: DE

NEW QUESTION 3

static website within an Amazon S3 bucket A solutions architect needs t Which action will accomplish this?

A. Enable Amazon S3 versioning
B. Enable Amazon S3 Intelligent-Tiering.
C. Enable an Amazon S3 lifecycle policy
D. Enable Amazon S3 cross-Region replication.

Answer: A

NEW QUESTION 4

A company hosts a static website on-premises and wants to migrate the website to AWS The website should load as quickly as possible for users around the world The company also wants the most cost-effective solution
What should a solutions architect do to accomplish this?

A. Copy the website content to an Amazon S3 bucket Configure the bucket to serve static webpage content Replicate the S3 bucket to multiple AWS Regions
B. Copy the website content to an Amazon S3 bucket Configure the bucket to serve static webpage content Configure Amazon CloudFront with the S3 bucket as the origin
C. Copy the website content to an Amazon EBS-backed Amazon EC2 instance running Apache HTTP Server Configure Amazon Route 53 geolocation routing policies to select the closest origin
D. Copy the website content to multiple Amazon EBS-backed Amazon EC2 instances running Apache HTTP Server in multiple AWS Regions Configure Amazon CloudFront geolocation routing policies to select the closest origin

Answer: B

NEW QUESTION 5

A company's website runs on Amazon EC2 instances behind an Application Load Balancer (ALB) The website has a mix of dynamic and static content Users around the globe are reporting that the website is slow
Which set of actions will improve website performance for users worldwide?

A. Create an Amazon CloudFront distribution and configure the ALB as an origin Then update the Amazon Route 53 record to point to the CloudFront distribution
B. Create a latency-based Amazon Route 53 record for the ALB Then launch new EC2 instances with larger instance sizes and register the instances with the ALB
C. Launch ne
D. EC2 instances hosting the same web application in different Regions closer to the users.Then register the instances with the same ALB using cross-Region VPC peering
E. Host the website in an Amazon S3 bucket in the Regions closest to the users and delete the ALB and EC2 instances Then update an Amazon Route 53 record to point to the S3 buckets

Answer: A

NEW QUESTION 6

A company is hosting a website behind multiple Application Load Balancers. The company has different distribution rights for its content around the world. A solutions architect needs to ensure that users are served the correct content without violating distribution rights.
Which configuration should the solutions architect choose to meet these requirements?
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A. Configure Amazon CloudFront with AWS WAF.
B. Configure Application Load Balancers with AWS WAF.
C. Configure Amazon Route 53 with a geolocation policy.
D. Configure Amazon Route 53 with a geoproximity routing policy.

Answer: C

NEW QUESTION 7

A company has on-premises servers running a relational database The current database serves high read traffic for users in different locations The company wants to migrate to AWS with the least amount of effort The database solution should support disaster recovery and not affect the company's current traffic flow. Which solution meets these requirements?

A. Use a database in Amazon RDS with Multi-AZ and at least one read replica
B. Use a database in Amazon RDS with Multi-AZ and at least one standby replica
C. Use databases hosted on multiple Amazon EC2 instances in different AWS Regions
D. Use databases hosted on Amazon EC2 instances behind an Application Load Balancer in different Availability Zones

Answer: A

NEW QUESTION 8

A recently acquired company is required to buikl its own infrastructure on AWS and migrate multiple applications to the cloud within a month Each application has approximately 50 TB of data to be transferred After the migration is complete this company and its parent company will both require secure network connectivity with consistent throughput from their data centers to the applications A solutions architect must ensure one-time data migration and ongoing network connectivity Which solution will meet these requirements''

A. AWS Direct Connect for both the initial transfer and ongoing connectivity
B. AWS Site-to-Site VPN for both the initial transfer and ongoing connectivity
C. AWS Snowball for the initial transfer and AWS Direct Connect for ongoing connectivity
D. AWS Snowball for the initial transfer and AWS Site-to-Site VPN for ongoing connectivity

Answer: C

NEW QUESTION 9

A company is planning to migrate a business-critical dataset to Amazon S3. The current solution design uses a single S3 bucket in the us-east-1 Region with versioning enabled to store the dataset. The company's disaster recovery policy states that all data multiple AWS Regions.
How should a solutions architect design the S3 solution?

A. Create an additional S3 bucket in another Region and configure cross-Region replication.
B. Create an additional S3 bucket in another Region and configure cross-origin resource sharing (CORS).
C. Create an additional S3 bucket with versioning in another Region and configure cross-Region replication.
D. Create an additional S3 bucket with versioning in another Region and configure cross-origin resource (CORS).

Answer: C

NEW QUESTION 10

A data science team requires storage for nightly log processing The size and number of logs is unknown and will persist for 24 hours only What is the MOST cost-effective solution?

A. Amazon S3 Glacier
B. Amazon S3 Standard
C. Amazon S3 intelligent-Tiering
D. Amazon S3 One Zone-Infrequent Access {S3 One Zone-IA)

Answer: B

NEW QUESTION 10

A company's production application runs online transaction processing (OLTP) transactions on an Amazon RDS MySQL DB instance The company is launching a new reporting tool that will access the same data The reporting tool must be highly available and not impact the performance of the production application
How can this be achieved'?

A. Create hourly snapshots of the production RDS DB instance
B. Create a Multi-AZ RDS Read Replica of the production RDS DB instance
C. Create multiple RDS Read Replicas of the production RDS DB instance Place the Read Replicas in an Auto Scaling group
D. Create a Single-AZ RDS Read Replica of the production RDS DB instance Create a second Single-AZ RDS Read Replica from the replica

Answer: B

NEW QUESTION 12

A solutions architect is designing a solution to access a catalog of images and provide users with the ability to submit requests to customize images Image customization parameters will be in any request sent to an AWS API Gateway API The customized image will be generated on demand, and users will receive a link they can click to view or download their customized image The solution must be highly available for viewing and customizing images
What is the MOST cost-effective solution to meet these requirements?

A. Use Amazon EC2 instances to manipulate the original image into the requested customization Store the original and manipulated images in Amazon S3 Configure an Elastic Load Balancer in front of the EC2 instances
B. Use AWS Lambda to manipulate the original image to the requested customization Store the original and manipulated images in Amazon S3 Configure an Amazon CloudFront distribution with the S3 bucket as the origin

C. Use AWS Lambda to manipulate the original image to the requested customization Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB Configure an Elastic Load Balancer in front of the Amazon EC2 instances
D. Use Amazon EC2 instances to manipulate the original image into the requested customization Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB Configure an Amazon CloudFront distribution with the S3 bucket as the origin

Answer: B

NEW QUESTION 14
A company's application is running on Amazon EC2 instances m a single Region in the event of a disaster a solutions architect needs to ensure that the resources can also be deployed to a second Region
Which combination of actions should the solutions architect take to accomplish this-? (Select TWO)

A. Detach a volume on an EC2 instance and copy it to Amazon S3
B. Launch a new EC2 instance from an Amazon Machine image (AMI) in a new Region
C. Launch a new EC2 instance in a new Region and copy a volume from Amazon S3 to the new instance
D. Copy an Amazon Machine Image (AMI) of an EC2 instance and specify a different Region for the destination
E. Copy an Amazon Elastic Block Store (Amazon EBS) volume from Amazon S3 and launch an EC2 instance in the destination Region using that EBS volume

Answer: BD

NEW QUESTION 18
A company wants to host a scalable web application on AWS. The application will be accessed by users from different geographic regions of the world. Application users will be able to download and upload unique data up to gigabytes in size. The development team wants a cost-effective solution to minimize upload and download latency and maximize performance.
What should a solutions architect do to accomplish this?

A. Use Amazon S3 with Transfer Acceleration to host the application.
B. Use Amazon S3 with CacheControl headers to host the application.D18912E1457D5D1DDCBD40AB3BF70D5D
C. Use Amazon EC2 with Auto Scaling and Amazon CloudFront to host the application.
D. Use Amazon EC2 with Auto Scaling and Amazon ElastiCache to host the application.

Answer: C

NEW QUESTION 21
A company captures clickstream data from multiple websites and analyzes it using batch processing. The data is loaded nightly into Amazon Redshift and is consumed by business analysts. The company wants to move towards near-real-time data processing for timely insights. The solution should process the streaming data with minimal effort and operational overhead.
Which combination of AWS services are MOST cost-effective for this solution? (Choose two.)

A. Amazon EC2
B. AWS Lambda
C. Amazon Kinesis Data Streams
D. Amazon Kinesis Data Firehose
E. Amazon Kinesis Data Analytics

Answer: AD

NEW QUESTION 23
A solutions architect is designing storage for a high performance computing (HPC) environment based on Amazon Linux. The workload stores and processes a large amount of engineering drawings that require shared storage and heavy computing.
Which storage option would be the optimal solution?

A. Amazon Elastic File System (Amazon EFS)
B. Amazon FSx for Lustre
C. Amazon EC2 instance store
D. Amazon EBS Provisioned IOPS SSD (io1)

Answer: B

NEW QUESTION 25
A company has a three-tier image-sharing application it uses an Amazon EC2 instance for the front-end layer, another for the backend tier, and a third for the MySQL database A solutions architect has been tasked with designing a solution that is highly available, and requires the least amount of changes to the application
Which solution meets these requirements'?

A. Use Amazon S3 to host the front-end layer and AWS Lambda functions for the backend layer Move the database to an Amazon DynamoDB table and use Amazon S3 to store and serve users' images
B. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layersMove the database to an Amazon RDS instance with multiple read replicas to store and serve users' images.
C. Use Amazon S3 to host the front-end layer and a fleet of Amazon EC2 instances in an Auto Scaling group for the backend layer Move the database to a memory optimized instance type to store and serve users' images
D. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers Move the database to an Amazon RDS instance with a Multi-AZ deployment Use Amazon S3 to store and serve users' images

Answer: D

NEW QUESTION 27

A company has a two-tier application architecture that runs in public and private subnets Amazon EC2 instances running the web application are in the public subnet and a database runs on the private subnet The web application instances and the database are running in a single Availability Zone (AZ).
Which combination of steps should a solutions architect take to provide high availability for this architecture? (Select TWO.)

A. Create new public and private subnets in the same AZ for high availability
B. Create an Amazon EC2 Auto Scaling group and Application Load Balancer spanning multiple AZs
C. Add the existing web application instances to an Auto Scaling group behind an Application Load Balancer
D. Create new public and private subnets in a new AZ Create a database using Amazon EC2 in one AZ
E. Create new public and private subnets in the same VPC each in a new AZ Migrate the database to an Amazon RDS multi-AZ deployment

Answer: BE

NEW QUESTION 32
A solutions architect is designing a new service behind Amazon API Gateway The request patterns for the service will be unpredictable and can change suddenly from 0 requests to over 500 per second The total size of the data that needs to be persisted in a backend database is currently less than 1 GB with unpredictable future growth Data can be queried using simple key-value requests
Which combination of AWS services would meet these requirements'? (Select TWO)

A. AWS Fargate
B. AWS Lambda
C. Amazon DynamoDB
D. Amazon EC2 Auto Scaling
E. MySQL-compatible Amazon Aurora

Answer: BC

NEW QUESTION 33
A company is migrating a three-tier application to AWS. The application requires a MySQL database. In the past, the application users reported poor application performance when creating new entries. These
performance issues were caused by users generating different real-time reports from the application duringworking hours.
Which solution will improve the performance of the application when it is moved to AWS?

A. Import the data into an Amazon DynamoDB table with provisioned capacit
B. Refactor the application to use DynamoDB for reports.
C. Create the database on a compute optimized Amazon EC2 instanc
D. Ensure compute resources exceed the on-premises database.
E. Create an Amazon Aurora MySQL Multi-AZ DB cluster with multiple read replica
F. Configure the application reader endpoint for reports.
G. Create an Amazon Aurora MySQL Multi-AZ DB cluste
H. Configure the application to use the backup instance of the cluster as an endpoint for the reports.

Answer: B

NEW QUESTION 38
A company is performing an AWS Well-Architected Framework review of an existing workload deployed on AWS. The review identified a public-facing website running on the same Amazon EC2 instance as a Microsoft Active Directory domain controller that was install recently to support other AWS services. A solutions architect needs to recommend a new design that would improve the security of the architecture and minimize the administrative demand on IT staff.
What should the solutions architect recommend?

A. Use AWS Directory Service to create a managed Active Director
B. Uninstall Active Directory on the current EC2 instance.
C. Create another EC2 instance in the same subnet and reinstall Active Directory on i
D. Uninstall Active Directory.
E. Use AWS Directory Service to create an Active Directory connecto
F. Proxy Active Directory requests to the Active domain controller running on the current EC2 instance.
G. Enable AWS Single Sign-On (AWS SSO) with Security Assertion Markup Language (SAML) 2.0 federation with the current Active Directory controlle
H. Modify the EC2 instance's security group to deny public access to Active Directory.

Answer: C

NEW QUESTION 41
A solutions architect is deploying a distributed database on multiple Amazon EC2 instances The database stores all data on multiple instances so it can withstand the loss of an instance The database requires block storage with latency and throughput to support several million transactions per second per server
Which storage solution should the solutions architect use?

A. Amazon EBS
B. Amazon EC2 instance store
C. Amazon EFS
D. Amazon S3

Answer: B

NEW QUESTION 46
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 EPS
D. Configure the Application Load Balancer to send the request to both servers Return each document from the correct server

Answer: C

NEW QUESTION 51
A company runs a multi-tier web application that hosts news content The application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an EC2 Auto Scaling group across multiple Availability Zones and use an Amazon Aurora database. A solutions architect needs to make the application more resilient to periodic increases in request rates
Which architecture should the solutions architect implement? (Select TWO)

A. Add AWS Shield.
B. Add Aurora Replicas
C. Add AWS Direct Connect
D. Add AWS Global Accelerator.
E. Add an Amazon CloudFront distribution in front of the Application Load Balancer

Answer: DE

NEW QUESTION 56
A company is managing health records on-premises The company must keep these records indefinitely, disable any modifications to the records once they are stored, and granularly audit access at all levels. The chief technology officer (CTO) is concerned because there are already millions of records not being used by any application, and the current infrastructure is running out of space The CTO has requested a solutions architect design a solution to move existing data and support future records
Which services can the solutions architect recommend to meet these requirements'?

A. Use AWS DataSync to move existing data to AW
B. Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with data events.
C. Use AWS Storage Gateway to move existing data to AWS Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with management events.
D. Use AWS DataSync to move existing data to AWS Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with management events.
E. Use AWS Storage Gateway to move existing data to AWS Use Amazon Elastic Block Store (Amazon EBS) to store existing and new data Enable Amazon S3 object lock and enable Amazon S3 server access logging

Answer: B

NEW QUESTION 57
A company wants to migrate a high performance computing (HPC) application and data from on-premises to the AWS Cloud The company uses tiered storage on premises with hot high-performance parallel storage to support the application during periodic runs of the application and more economical cold storage to hold the data when the application is not actively running
Which combination of solutions should a solutions architect recommend to support the storage needs of the application? (Select TWO)

A. Amazon S3 for cold data storage
B. Amazon EFS for cold data storage
C. Amazon S3 for high-performance parallel storage
D. Amazon FSx for Lustre for high-performance parallel storage
E. Amazon FSx for Windows for high-performance parallel storage

Answer: AD

NEW QUESTION 60
A bicycle sharing company is developing a multi-tier architecture to track the location of its bicycles during peak operating hours The company wants to use these data points in its existing analytics platform A solutions architect must determine the most viable multi-tier option to support this architecture The data points must be accessible from the REST API
Which action meets these requirements for storing and retrieving location data?

A. Use Amazon Athena with Amazon S3
B. Use Amazon API Gateway with AWS Lambda
C. Use Amazon QuickSight with Amazon Redshift
D. Use Amazon API Gateway with Amazon Kinesis Data Analytics

Answer: D

NEW QUESTION 65
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