

SAA-C03 Dumps

AWS Certified Solutions Architect - Associate (SAA-C03)

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NEW QUESTION 1

A company wants to run a gaming application on Amazon EC2 instances that are part of an Auto Scaling group in the AWS Cloud. The application will transmit data by using UDP packets. The company wants to ensure that the application can scale out and in as traffic increases and decreases. What should a solutions architect do to meet these requirements?

- A. Attach a Network Load Balancer to the Auto Scaling group
- B. Attach an Application Load Balancer to the Auto Scaling group.
- C. Deploy an Amazon Route 53 record set with a weighted policy to route traffic appropriately
- D. Deploy a NAT instance that is configured with port forwarding to the EC2 instances in the Auto Scaling group.

Answer: B

NEW QUESTION 2

A company has two applications: a sender application that sends messages with payloads to be processed and a processing application intended to receive the messages with payloads. The company wants to implement an AWS service to handle messages between the two applications. The sender application can send about 1,000 messages each hour. The messages may take up to 2 days to be processed. If the messages fail to process, they must be retained so that they do not impact the processing of any remaining messages.

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

- A. Set up an Amazon EC2 instance running a Redis database
- B. Configure both applications to use the instance
- C. Store, process, and delete the messages, respectively.
- D. Use an Amazon Kinesis data stream to receive the messages from the sender application
- E. Integrate the processing application with the Kinesis Client Library (KCL).
- F. Integrate the sender and processor applications with an Amazon Simple Queue Service (Amazon SQS) queue
- G. Configure a dead-letter queue to collect the messages that failed to process.
- H. Subscribe the processing application to an Amazon Simple Notification Service (Amazon SNS) topic to receive notifications to process
- I. Integrate the sender application to write to the SNS topic.

Answer: C

Explanation:

Explanation

<https://aws.amazon.com/blogs/compute/building-loosely-coupled-scalable-c-applications-with-amazon-sqs-and->

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-dead-letter-queues.htm>

NEW QUESTION 3

A company has created an image analysis application in which users can upload photos and add photo frames to their images. The users upload images and metadata to indicate which photo frames they want to add to their images. The application uses a single Amazon EC2 instance and Amazon DynamoDB to store the metadata.

The application is becoming more popular, and the number of users is increasing. The company expects the number of concurrent users to vary significantly depending on the time of day and day of week. The company must ensure that the application can scale to meet the needs of the growing user base.

Which solution meets these requirements?

- A. Use AWS Lambda to process the photo
- B. Store the photos and metadata in DynamoDB.
- C. Use Amazon Kinesis Data Firehose to process the photos and to store the photos and metadata.
- D. Use AWS Lambda to process the photo
- E. Store the photos in Amazon S3. Retain DynamoDB to store the metadata.
- F. Increase the number of EC2 instances to three
- G. Use Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volumes to store the photos and metadata.

Answer: A

NEW QUESTION 4

A company runs its two-tier ecommerce website on AWS. The web tier consists of a load balancer that sends traffic to Amazon EC2 instances. The database tier uses an Amazon RDS DB instance. The EC2 instances and the RDS DB instance should not be exposed to the public internet. The EC2 instances require internet access to complete payment processing of orders through a third-party web service. The application must be highly available.

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

- A. Use an Auto Scaling group to launch the EC2 instances in private subnet
- B. Deploy an RDS Multi-AZ DB instance in private subnets.
- C. Configure a VPC with two private subnets and two NAT gateways across two Availability Zones. Deploy an Application Load Balancer in the private subnets.
- D. Use an Auto Scaling group to launch the EC2 instances in public subnets across two Availability Zones. Deploy an RDS Multi-AZ DB instance in private subnets.
- E. Configure a VPC with one public subnet, one private subnet, and two NAT gateways across two Availability Zones
- F. Deploy an Application Load Balancer in the public subnet.
- G. Configure a VPC with two public subnets, two private subnets, and two NAT gateways across two Availability Zones
- H. Deploy an Application Load Balancer in the public subnets.

Answer: AE

Explanation:

Explanation

Before you begin: Decide which two Availability Zones you will use for your EC2 instances. Configure your virtual private cloud (VPC) with at least one public subnet in each of these Availability Zones. These public subnets are used to configure the load balancer. You can launch your EC2 instances in other subnets of these Availability Zones instead.

NEW QUESTION 5

A company observes an increase in Amazon EC2 costs in its most recent bill

The billing team notices unwanted vertical scaling of instance types for a couple of EC2 instances

A solutions architect needs to create a graph comparing the last 2 months of EC2 costs and perform an in-depth analysis to identify the root cause of the vertical scaling

How should the solutions architect generate the information with the LEAST operational overhead?

A. Use AWS Budgets to create a budget report and compare EC2 costs based on instance types

B. Use Cost Explorer's granular filtering feature to perform an in-depth analysis of EC2 costs based on instance types

C. Use graphs from the AWS Billing and Cost Management dashboard to compare EC2 costs based on instance types for the last 2 months

D. Use AWS Cost and Usage Reports to create a report and send it to an Amazon S3 bucket Use Amazon QuickSight with Amazon S3 as a source to generate an interactive graph based on instance types.

Answer: B

Explanation:

Explanation

AWS Cost Explorer is a tool that enables you to view and analyze your costs and usage. You can explore your usage and costs using the main graph, the Cost Explorer cost and usage reports, or the Cost Explorer RI reports. You can view data for up to the last 12 months, forecast how much you're likely to spend for the next 12 months, and get recommendations for what Reserved Instances to purchase. You can use Cost Explorer to identify areas that need further inquiry and see trends that you can use to understand your costs. <https://docs.aws.amazon.com/costmanagement/latest/userguide/ce-what-is.html>

NEW QUESTION 6

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 costeffective 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 Load Balancer with an AWS Lambda target that uses the Express.js framework.

Answer: B

Explanation:

Explanation

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.

NEW QUESTION 7

A company's website uses an Amazon EC2 instance store for its catalog of items. The company wants to make sure that the catalog is highly available and that the catalog is stored in a durable location.

What should a solutions architect do to meet these requirements?

A. Move the catalog to Amazon ElastiCache for Redis.

B. Deploy a larger EC2 instance with a larger instance store.

C. Move the catalog from the instance store to Amazon S3 Glacier Deep Archive.

D. Move the catalog to an Amazon Elastic File System (Amazon EFS) file system.

Answer: A

NEW QUESTION 8

A company is running a high performance computing (HPC) workload on AWS across many Linux based Amazon EC2 instances. The company needs a shared storage system that is capable of sub-millisecond latencies, hundreds of Gbps of throughput and millions of IOPS. Users will store millions of small files.

Which solution meets these requirements?

A. Create an Amazon Elastic File System (Amazon EFS) file system Mount the file system on each of the EC2 instances

B. Create an Amazon S3 bucket Mount the S3 bucket on each of the EC2 instances

C. Ensure that the EC2 instances use Amazon Elastic Block Store (Amazon EBS) optimized Mount Provisioned IOPS SSD (io2) EBS volumes with Multi-Attach on each instance

D. Create an Amazon FSx for Lustre file system

E. Mount the file system on each of the EC2 instances

Answer: D

NEW QUESTION 9

A rapidly growing ecommerce company is running its workloads in a single AWS Region. A solutions architect must create a disaster recovery (DR) strategy that includes a different AWS Region. The company wants its database to be up to date in the DR Region with the least possible latency. The remaining infrastructure in the DR Region needs to run at reduced capacity and must be able to scale up if necessary.

Which solution will meet these requirements with the LOWEST recovery time objective (RTO)?

- A. Use an Amazon Aurora global database with a pilot light deployment.
- B. Use an Amazon Aurora global database with a warm standby deployment.
- C. Use an Amazon RDS Multi-AZ DB instance with a pilot light deployment.
- D. Use an Amazon RDS Multi-AZ DB instance with a warm standby deployment.

Answer: B

NEW QUESTION 10

A company collects data from thousands of remote devices by using a RESTful web services application that runs on an Amazon EC2 instance. The EC2 instance receives the raw data, transforms the raw data, and stores all the data in an Amazon S3 bucket. The number of remote devices will increase into the millions soon. The company needs a highly scalable solution that minimizes operational overhead.

Which combination of steps should a solutions architect take to meet these requirements? (Select TWO.)

- A. Use AWS Glue to process the raw data in Amazon S3.
- B. Use Amazon Route 53 to route traffic to different EC2 instances.
- C. Add more EC2 instances to accommodate the increasing amount of incoming data.
- D. Send the raw data to Amazon Simple Queue Service (Amazon SQS). Use EC2 instances to process the data.
- E. Use Amazon API Gateway to send the raw data to an Amazon Kinesis data stream.
- F. Configure Amazon Kinesis Data Firehose to use the data stream as a source to deliver the data to Amazon S3.

Answer: BE

NEW QUESTION 10

A company is planning to build a high performance computing (HPC) workload as a service solution that is hosted on AWS. A group of 16 Amazon EC2 Linux instances requires the lowest possible latency for node-to-node communication. The instances also need a shared block device volume for high-performing storage.

Which solution will meet these requirements?

- A. Use a distributed placement group.
- B. Attach a single Provisioned IOPS SSD Amazon Elastic Block Store (Amazon EBS) volume to all the instances by using Amazon EBS Multi-Attach.
- C. Use a cluster placement group.
- D. Create shared file systems across the instances by using Amazon Elastic File System (Amazon EFS).
- E. Use a partition placement group.
- F. Create shared tile systems across the instances by using Amazon Elastic File System (Amazon EFS).
- G. Use a spread placement group.
- H. Attach a single Provisioned IOPS SSD Amazon Elastic Block Store (Amazon EBS) volume to all the instances by using Amazon EBS Multi-Attach.

Answer: A

NEW QUESTION 13

A company has migrated a two-tier application from its on-premises data center to the AWS Cloud. The data tier is a Multi-AZ deployment of Amazon RDS for Oracle with 12 TB of General Purpose SSD Amazon Elastic Block Store (Amazon EBS) storage. The application is designed to process and store documents in the database as binary large objects (blobs) with an average document size of 6 MB.

The database size has grown over time, reducing the performance and increasing the cost of storage. The company must improve the database performance and needs a solution that is highly available and resilient.

Which solution will meet these requirements MOST cost-effectively?

- A. Reduce the RDS DB instance size. Increase the storage capacity to 24 TiB. Change the storage type to Magnetic.
- B. Increase the RDS DB instance size.
- C. Increase the storage capacity to 24 TiB. Change the storage type to Provisioned IOPS.
- D. Create an Amazon S3 bucket.
- E. Update the application to store documents in the S3 bucket. Store the object metadata in the existing database.
- F. Create an Amazon DynamoDB table.
- G. Update the application to use DynamoDB.
- H. Use AWS Database Migration Service (AWS DMS) to migrate data from the Oracle database to DynamoDB.

Answer: C

NEW QUESTION 17

A company uses Amazon EC2 instances to host its internal systems. As part of a deployment operation, an administrator tries to use the AWS CLI to terminate an EC2 instance. However, the administrator receives a 403 (Access Denied) error message.

The administrator is using an IAM role that has the following IAM policy attached:

What is the cause of the unsuccessful request?

- A. The EC2 instance has a resource-based policy with a Deny statement.
- B. The principal has not been specified in the policy statement.
- C. The "Action" field does not grant the actions that are required to terminate the EC2 instance.
- D. The request to terminate the EC2 instance does not originate from the CIDR blocks 192.0.2.0/24 or 203.0.113.0/24.

Answer: B

NEW QUESTION 21

A company is running a critical business application on Amazon EC2 instances behind an Application Load Balancer. The EC2 instances run in an Auto Scaling group and access an Amazon RDS DB instance.

The design did not pass an operational review because the EC2 instances and the DB instance are all located in a single Availability Zone. A solutions architect must update the design to use a second Availability Zone.

Which solution will make the application highly available?

- A. Provision a subnet in each Availability Zone Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones Configure the DB instance with connections to each network
- B. Provision two subnets that extend across both Availability Zones Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones Configure the DB instance with connections to each network
- C. Provision a subnet in each Availability Zone Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones Configure the DB instance for Multi-AZ deployment
- D. Provision a subnet that extends across both Availability Zones Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones Configure the DB instance for Multi-AZ deployment

Answer: C

NEW QUESTION 24

A company has five organizational units (OUS) as part of its organization in AWS Organization. Each OU correlate to the five business that the company owns. The company research and development R&D business is separating from the company and will need its own organization. A solutions architect creates a separate new management account for this purpose.

- A. Have the R&D AWS account be part of both organizations during the transition.
- B. Invite the R&D AWS account to be part of the new organization after the R&D AWS account has left the prior organization.
- C. Create a new R&D AWS account in the new organization
- D. Migrate resources from the period R&D AWS account to the new R&D AWS account
- E. Have the R&D AWS account into the new organization
- F. Make the new management account a member of the prior organization

Answer: B

NEW QUESTION 29

A company needs to store data in Amazon S3 and must prevent the data from being changed. The company wants new objects that are uploaded to Amazon S3 to remain unchangeable for a nonspecific amount of time until the company decides to modify the objects. Only specific users in the company's AWS account can have the ability to delete the objects. What should a solutions architect do to meet these requirements?

- A. Create an S3 Glacier vault Apply a write-once, read-many (WORM) vault lock policy to the objects
- B. Create an S3 bucket with S3 Object Lock enabled Enable versioning Set a retention period of 100 years Use governance mode as the S3 bucket's default retention mode for new objects
- C. Create an S3 bucket Use AWS CloudTrail to track any S3 API events that modify the objects Upon notification, restore the modified objects from any backup versions that the company has
- D. Create an S3 bucket with S3 Object Lock enabled Enable versioning Add a legal hold to the objects Add the s3 PutObjectLegalHold permission to the IAM policies of users who need to delete the objects

Answer: D

NEW QUESTION 32

A company has a web-based map application that provides status information about ongoing repairs. The application sometimes has millions of users. Repair teams have a mobile app that sends current location and status in a JSON message to a REST-based endpoint. Few repairs occur on most days. The company wants the application to be highly available and to scale when large numbers of repairs occur after natural disasters. Customer use the application most often during these times. The company does not want to pay for idle capacity.

- A. Create a webpage that is based on Amazon S3 to display information
- B. Use Amazon API Gateway and AWS Lambda to receive the JSON status data Store the JSON data in Amazon S3.
- C. Use Amazon EC2 instances as web servers across multiple Availability Zones
- D. Run the EC2 instances in an Auto Scaling group
- E. Use Amazon API Gateway and AWS Lambda to receive the JSON status data Store the JSON data in Amazon S3.
- F. Use Amazon EC2 instances as web servers across multiple Availability Zones
- G. Run the EC2 instances in an Auto Scaling group
- H. Use a REST endpoint on the EC2 instances to receive the JSON status data
- I. Store the JSON data in an Amazon RDS Multi-AZ DB instance.
- J. Use Amazon EC2 instances as web servers across multiple Availability zones Run the EC2 instances in an Auto Scaling group Use a REST endpoint on the EC2 instances to receive the JSON status data Store the JSON data in an Amazon DynamoDB table.

Answer: D

NEW QUESTION 34

A company is building an ecommerce application and needs to store sensitive customer information. The company needs to give customers the ability to complete purchase transactions on the website. The company also needs to ensure that sensitive customer data is protected, even from database administrators. Which solution meets these requirements?

- A. Store sensitive data in an Amazon Elastic Block Store (Amazon EBS) volume
- B. Use EBS encryption to encrypt the data
- C. Use an IAM instance role to restrict access.
- D. Store sensitive data in Amazon RDS for MySQL
- E. Use AWS Key Management Service (AWS KMS) client-side encryption to encrypt the data.
- F. Store sensitive data in Amazon S3. Use AWS Key Management Service (AWS KMS) service-side encryption the data
- G. Use S3 bucket policies to restrict access.
- H. Store sensitive data in Amazon FSx for Windows Server
- I. Mount the file share on application servers. Use Windows file permissions to restrict access.

Answer: C

NEW QUESTION 39

A company is experiencing sudden increases in demand. The company needs to provision large Amazon EC2 instances from an Amazon Machine image (AMI). The instances will run in an Auto Scaling group. The company needs a solution that provides minimum initialization latency to meet the demand. Which solution meets these requirements?

- A. Use the `aws ec2 register-image` command to create an AMI from a snapshot. Use AWS Step Functions to replace the AMI in the Auto Scaling group.
- B. Enable Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot. Provision an AMI by using the snapshot. Replace the AMI in the Auto Scaling group with the new AMI.
- C. Enable AMI creation and define lifecycle rules in Amazon Data Lifecycle Manager (Amazon DLM). Create an AWS Lambda function that modifies the AMI in the Auto Scaling group.
- D. Use Amazon EventBridge (Amazon CloudWatch Events) to invoke AWS Backup lifecycle policies that provision AMIs. Configure Auto Scaling group capacity limits as an event source in EventBridge (CloudWatch Events).

Answer: B

NEW QUESTION 44

A company uses an Amazon Aurora PostgreSQL DB cluster in the us-east-1 Region. The company wants to develop a disaster recovery plan to recover the database in the us-west-1 Region. The company has a recovery time objective (RTO) of 5 minutes and has a recovery point objective (RPO) of 1 minute.

What should a solutions architect do to meet these requirements?

- A. Create a read replica in us-west-1. Set the DB cluster to automatically fail over to the read replica if the primary instance is not responding.
- B. Create an Aurora global database spanning us-west-1 as the secondary Region. Update connections to use the writer and reader endpoints as appropriate.
- C. Set up a second Aurora DB cluster in us-west-1. Use logical replication to keep the databases synchronized. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to change the database endpoint if the primary DB cluster does not respond.
- D. Use Aurora automated snapshots to store data in an Amazon S3 bucket. Enable S3 Versioning.
- E. Configure S3 Cross-Region Replication to us-west-1. Create a second Aurora DB cluster in us-west-1. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to restore the snapshot if the primary DB cluster does not respond.

Answer: B

NEW QUESTION 47

A company has a business-critical application that runs on Amazon EC2 instances. The application stores data in an Amazon DynamoDB table. The company must be able to revert the table to any point within the last 24 hours. Which solution meets these requirements with the LEAST operational overhead?

- A. Configure point-in-time recovery for the table.
- B. Use AWS Backup for the table.
- C. Use an AWS Lambda function to make an on-demand backup of the table every hour.
- D. Turn on streams on the table to capture a log of all changes to the table in the last 24 hours.
- E. Store a copy of the stream in an Amazon S3 bucket.

Answer: A

NEW QUESTION 50

A gaming company hosts a browser-based application on AWS. The users of the application consume a large number of videos and images that are stored in Amazon S3. This content is the same for all users.

The application has increased in popularity, and millions of users worldwide are accessing these media files. The company wants to provide the files to the users while reducing the load on the origin.

Which solution meets these requirements MOST cost-effectively?

- A. Deploy an AWS Global Accelerator accelerator in front of the web servers.
- B. Deploy an Amazon CloudFront web distribution in front of the S3 bucket.
- C. Deploy an Amazon ElastiCache for Redis instance in front of the web servers.
- D. Deploy an Amazon ElastiCache for Memcached instance in front of the web servers.

Answer: B

Explanation:

CloudFront uses Edge Locations to cache content while Global Accelerator uses Edge Locations to find an optimal pathway to the nearest regional endpoint.

NEW QUESTION 55

A company's reporting system delivers hundreds of CSV files to an Amazon S3 bucket each day. The company must convert these files to Apache Parquet format and must store the files in a transformed data bucket.

Which solution will meet these requirements with the LEAST development effort?

- A. Create an Amazon EMR cluster with Apache Spark installed. Write a Spark application to transform the data. Use EMR File System (EMRFS) to write files to the transformed data bucket.
- B. Create an AWS Glue crawler to discover the data. Create an AWS Glue extract, transform, and load (ETL) job to transform the data. Specify the transformed data bucket in the output step.
- C. Use AWS Batch to create a job definition with Bash syntax to transform the data and output the data to the transformed data bucket. Use the job definition to submit a job. Specify an array job as the job type.
- D. Create an AWS Lambda function to transform the data and output the data to the transformed data bucket.
- E. Configure an event notification for the S3 bucket.
- F. Specify the Lambda function as the destination for the event notification.

Answer: D

NEW QUESTION 59

A company is designing a new web application that the company will deploy into a single AWS Region. The application requires a two-tier architecture that will

include Amazon EC2 instances and an Amazon RDS DB instance. A solutions architect needs to design the application so that all components are highly available.

- A. Deploy EC2 instances In an additional Region Create a DB instance with the Multi-AZ option activated
- B. Deploy all EC2 instances in the same Region and the same Availability Zon
- C. Create a DB instance with the Multi-AZ option activated.
- D. Deploy the EC2 instances across at least two Availability Zones within the some Regio
- E. Create a DB instance in a single Availability Zone
- F. Deploy the EC2 instances across at least Two Availability Zones within the same Regio
- G. Create a DB instance with the Multi-AZ option activated

Answer: D

NEW QUESTION 64

A company is hosting a website from an Amazon S3 bucket that is configured for public hosting. The company's security team mandates the usage of secure connections for access to the website. However; HTTP-based URLs and HTTPS-based URLs must be functional. What should a solution architect recommend to meet these requirements?

- A. Create an S3 bucket policy to explicitly deny non-HTTPS traffic.
- B. Enable S3 Transfer Acceleratio
- C. Select the HTTPS Only bucket property.
- D. Place the website behind an Elastic Load Balancer that is configured to redirect HTTP traffic to HTTPS.
- E. Serve the website through an Amazon CloudFront distribution that is configured to redirect HTTP traffic to HTTPS.

Answer: D

NEW QUESTION 67

An image-processing company has a web application that users use to upload images. The application uploads the images into an Amazon S3 bucket. The company has set up S3 event notifications to publish the object creation events to an Amazon SQS queue. A company has a service that produces event queue. The SQS queue serves as the event source for an AWS Lambda function that processes the images and sends the results to users through email. Users report that they are receiving multiple email messages for every uploaded image. A solutions architect determines that SQS messages are invoking the Lambda function more than once, resulting in multiple email messages. What should the solutions architect do to resolve this issue with the LEAST operational overhead?

- A. Set up long polling in the SQS queue by increasing the ReceiveMessage wait time to 30 seconds.
- B. Change the SQS standard queue to an SQS FIFO queue
- C. Use the message deduplication ID to discard duplicate messages.
- D. Increase the visibility timeout in the SQS queue to a value that is greater than the total of the function timeout and the batch window timeout.
- E. Modify the Lambda function to delete each message from the SQS queue immediately after the message is read before processing.

Answer: B

NEW QUESTION 69

A company runs an application that receives data from thousands of geographically dispersed remote devices that use UDP. The application processes the data immediately and sends a message back to the device if necessary. No data is stored. The company needs a solution that minimizes latency for the data transmission from the devices. The solution also must provide rapid failover to another AWS Region. Which solution will meet these requirements?

- A. Configure an Amazon Route 53 failover routing policy Create a Network Load Balancer (NLB) in each of the two Regions Configure the NLB to invoke an AWS Lambda function to process the data
- B. Use AWS Global Accelerator Create a Network Load Balancer (NLB) in each of the two Regions as an endpoint
- C. Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type Create an ECS service on the cluster Set the ECS service as the target for the NLB Process the data in Amazon ECS.
- D. Use AWS Global Accelerator Create an Application Load Balancer (ALB) in each of the two Regions as an endpoint Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type Create an ECS service on the cluster
- E. Set the ECS service as the target for the ALB Process the data in Amazon ECS
- F. Configure an Amazon Route 53 failover routing policy Create an Application Load Balancer (ALB) in each of the two Regions Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type Create an ECS service on the cluster Set the ECS service as the target for the ALB Process the data in Amazon ECS

Answer: C

NEW QUESTION 72

A company is planning on deploying a newly built application on AWS in a default VPC. The application will consist of a web layer and database layer. The web server was created in public subnets, and the MySQL database was created in private subnet. All subnets are created with the default network ACL settings, and the default security group in the VPC will be replaced with new custom security groups.

- A. Create a database server security group with inbound and outbound rules for MySQL port 3306 traffic to and from anywhere (0.0.0.0/0).
- B. Create a database server security group with an inbound rule for MySQL port 3300 and specify the source as a web server security group.
- C. Create a web server security group within an inbound allow rule for HTTPS port 443 traffic from anywhere (0.0.0.0/0) and an inbound deny rule for IP range 182. 20.0.0/16
- D. Create a web server security group with an inbound rule for HTTPS port 443 traffic from anywhere (0.0.0.0/0). Create network ACL inbound and outbound deny rules for IP range 182. 20.0.0/16
- E. Create a web server security group with an inbound and outbound rules for HTTPS port 443 traffic to and from anywhere (0.0.0.0/0). Create a network ACL inbound deny rule for IP range 182. 20.0.0/16.

Answer: BD

NEW QUESTION 74

A solutions architect is designing a customer-facing application for a company. The application's database will have a clearly defined access pattern throughout the year and will have a variable number of reads and writes that depend on the time of year. The company must retain audit records for the database for 7 days. The recovery point objective (RPO) must be less than 5 hours. Which solution meets these requirements?

- A. Use Amazon DynamoDB with auto scaling Use on-demand backups and Amazon DynamoDB Streams
- B. Use Amazon Redshift
- C. Configure concurrency scalin
- D. Activate audit loggin
- E. Perform database snapshots every 4 hours.
- F. Use Amazon RDS with Provisioned IOPS Activate the database auditing parameter Perform database snapshots every 5 hours
- G. Use Amazon Aurora MySQL with auto scalin
- H. Activate the database auditing parameter

Answer: B

NEW QUESTION 79

A gaming company wants to launch a new internet-facing application in multiple AWS Regions. The application will use the TCP and UDP protocols for communication. The company needs to provide high availability and minimum latency for global users. Which combination of actions should a solutions architect take to meet these requirements? (Select TWO.)

- A. Create internal Network Load Balancers in front of the application in each Region
- B. Create external Application Load Balancers in front of the application in each Region
- C. Create an AWS Global Accelerator accelerator to route traffic to the load balancers in each Region
- D. Configure Amazon Route 53 to use a geolocation routing policy to distribute the traffic
- E. Configure Amazon CloudFront to handle the traffic and route requests to the application in each Region

Answer: AC

NEW QUESTION 80

A company is running an application in a private subnet in a VPC with an attached internet gateway. The company needs to provide the application access to the internet while restricting public access to the application. The company does not want to manage additional infrastructure and wants a solution that is highly available and scalable. Which solution meets these requirements?

- A. Create a NAT gateway in the private subne
- B. Create a route table entry from the private subnet to the internet gateway
- C. Create a NAT gateway in a public subnet Create a route table entry from the private subnet to the NAT gateway
- D. Launch a NAT instance in the private subnet Create a route table entry from the private subnet to the internet gateway
- E. Launch a NAT Instance in a public subnet Create a route table entry from the private subnet to the NAT instance.

Answer: A

NEW QUESTION 81

A startup company is hosting a website for its customers on an Amazon EC2 instance. The website consists of a stateless python application and a MySQL database. The website serves only a small amount of traffic. The company is concerned about the reliability of the instance and needs to migrate to a highly available architecture. The company cannot modify the application code. Which combination of actions should a solution architect take to achieve high availability for the website? (Select TWO.)

- A. Provision an internet gateway in each Availability Zone in use.
- B. Migrate the database to on Amazon RDS for MySQL Multi-AZ DB instance
- C. Migrate the database to Amazon DynamoDB, and enable DynamoDB auto scaling.
- D. Use AWS DataSync to synchronize the database data across multiple EC2 instances
- E. Create an Application Load Balancer to distribute traffic to an Auto Scaling group or EC2 instances that are distributed across two Availability Zones.

Answer: BE

NEW QUESTION 85

A solution 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 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 table
- B. Associate the role with the application instances by referencing an instance profile.
- C. Create an IAM role that has the required permissions to read and write from the DynamoDB table
- D. Add the role to the EC2 instance profile, and associate the instance profile with the application instances.
- E. 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.
- F. Create an IAM user in the AWS CloudFormation template that has the required permissions to read and write from the DynamoDB table
- G. Use the GetAtt function to retrieve the access secret keys, and pass them to the application instances through the user data.

Answer: B

NEW QUESTION 89

A company hosts its web applications in the AWS Cloud. The company configures Elastic Load Balancers to use certificates that are imported into AWS Certificate Manager (ACM). The company's security team must be notified 30 days before the expiration of each certificate.

What should a solutions architect recommend to meet the requirement?

- A. Add a rule in ACM to publish a custom message to an Amazon Simple Notification Service (Amazon SNS) topic every day beginning 30 days before any certificate will expire.
- B. Create an AWS Config rule that checks for certificates that will expire within 30 days
- C. Configure Amazon EventBridge (Amazon CloudWatch Events) to invoke a custom alert by way of Amazon Simple Notification Service (Amazon SNS) when AWS Config reports a noncompliant resource
- D. Use AWS Trusted Advisor to check for certificates that will expire within 30 days
- E. Create an Amazon CloudWatch alarm that is based on Trusted Advisor metrics for check status changes. Configure the alarm to send a custom alert by way of Amazon Simple Notification Service (Amazon SNS)
- F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to detect any certificates that will expire within 30 days
- G. Configure the rule to invoke an AWS Lambda function
- H. Configure the Lambda function to send a custom alert by way of Amazon Simple Notification Service (Amazon SNS).

Answer: B

NEW QUESTION 91

A company is developing an internal application that uses a PostgreSQL database. The company has decided to host the database on Amazon Aurora. The application does not need to be highly available but data must be stored in multiple Availability Zones to maximize durability. Which database configuration meets these requirements MOST cost-effectively?

- A. An Aurora PostgreSQL DB cluster with a single DB instance
- B. An Aurora PostgreSQL DB cluster with a primary DB instance and a read replica
- C. An Aurora PostgreSQL DB cluster with Multi-AZ deployment enabled
- D. An Aurora PostgreSQL global database cluster

Answer: B

NEW QUESTION 94

A company runs a photo processing application that needs to frequently upload and download pictures from Amazon S3 buckets that are located in the same AWS Region. A solutions architect has noticed an increased cost in data transfer fees and needs to implement a solution to reduce these costs. How can the solutions architect meet this requirement?

- A. Deploy Amazon API Gateway into a public subnet and adjust the route table to route S3 calls through it
- B. Deploy a NAT gateway into a public subnet and attach an endpoint policy that allows access to the S3 buckets
- C. Deploy the application into a public subnet and allow it to route through an internet gateway to access the S3 buckets
- D. Deploy an S3 VPC gateway endpoint into the VPC and attach an endpoint policy that allows access to the S3 buckets

Answer: D

NEW QUESTION 99

A company runs a global web application on Amazon EC2 instances behind an Application Load Balancer. The application stores data in Amazon Aurora. The company needs to create a disaster recovery solution and can tolerate up to 30 minutes of downtime and potential data loss. The solution does not need to handle the load when the primary infrastructure is healthy. What should a solutions architect do to meet these requirements?

- A. Deploy the application with the required infrastructure elements in place. Use Amazon Route 53 to configure active-passive failover. Create an Aurora Replica in a second AWS Region.
- B. Host a scaled-down deployment of the application in a second AWS Region. Use Amazon Route 53 to configure active-active failover. Create an Aurora Replica in the second Region.
- C. Replicate the primary infrastructure in a second AWS Region. Use Amazon Route 53 to configure active-active failover. Create an Aurora database that is restored from the latest snapshot.
- D. Back up data with AWS Backup. Use the backup to create the required infrastructure in a second AWS Region. Use Amazon Route 53 to configure active-passive failover. Create an Aurora second primary instance in the second Region.

Answer: C

NEW QUESTION 104

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 in 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 CloudWatch 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 cluster 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 function 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.

Answer: B

NEW QUESTION 108

A payment processing company records all voice communication with its customers and stores the audio files in an Amazon S3 bucket. The company needs to capture the text from the audio files. The company must remove from the text any personally identifiable information (PII) that belongs to customers. What should a solutions architect do to meet these requirements?

- A. Process the audio files by using Amazon Kinesis Video Stream

- B. Use an AWS Lambda function to scan for known PII patterns.
- C. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start an Amazon Textract task to analyze the call recordings.
- D. Configure an Amazon Transcribe transcription job with PII redaction turned on.
- E. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start the transcription job.
- F. Store the output in a separate S3 bucket.
- G. Create an Amazon Connect contact flow that ingests the audio files with transcription turned on.
- H. Embed an AWS Lambda function to scan for known PII patterns.
- I. Use Amazon EventBridge (Amazon CloudWatch Events) to start the contact flow when an audio file is uploaded to the S3 bucket.

Answer: C

NEW QUESTION 112

A company stores data in an Amazon Aurora PostgreSQL DB cluster. The company must store all the data for 5 years and must delete all the data after 5 years. The company also must indefinitely keep audit logs of actions that are performed within the database. Currently, the company has automated backups configured for Aurora.

Which combination of steps should a solutions architect take to meet these requirements? (Select TWO.)

- A. Take a manual snapshot of the DB cluster.
- B. Create a lifecycle policy for the automated backups.
- C. Configure automated backup retention for 5 years.
- D. Configure an Amazon CloudWatch Logs export for the DB cluster.
- E. Use AWS Backup to take the backups and to keep the backups for 5 years.

Answer: AD

NEW QUESTION 115

A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers, and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0.

Company policy requires that each resource has the least access required to still be able to perform its tasks. Which additional configuration strategy should the solutions architect use to meet these requirements?

- A. Create a security group for the web servers and allow port 443 from 0.0.0.0/0. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- B. Create a network ACL for the web servers and allow port 443 from 0.0.0.0/0. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.
- C. Create a security group for the web servers and allow port 443 from the load balancer security group.
- D. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- E. Create a network ACL for the web servers and allow port 443 from the load balancer security group.
- F. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

Answer: C

NEW QUESTION 119

A company is deploying a new application to Amazon Elastic Kubernetes Service (Amazon EKS) with an AWS Fargate cluster. The application needs a storage solution for data persistence. The solution must be highly available and fault tolerant. The solution also must be shared between multiple application containers. Which solution will meet these requirements with the LEAST operational overhead?

- A. Create Amazon Elastic Block Store (Amazon EBS) volumes in the same Availability Zones where EKS worker nodes are placed. Register the volumes in a StorageClass object on an EKS cluster. Use EBS Multi-Attach to share the data between containers.
- B. Create an Amazon Elastic File System (Amazon EFS) file system. Register the file system in a StorageClass object on an EKS cluster. Use the same file system for all containers.
- C. Create an Amazon Elastic Block Store (Amazon EBS) volume. Register the volume in a StorageClass object on an EKS cluster. Use the same volume for all containers.
- D. Create an Amazon Elastic File System (Amazon EFS) file system in the same Availability Zones where EKS worker nodes are placed. Register the file system in a StorageClass object on an EKS cluster. Create an AWS Lambda function to synchronize the data between file systems.
- E. Create Amazon Elastic File System (Amazon EFS) file systems in the same Availability Zones where EKS worker nodes are placed. Register the file systems in a StorageClass object on an EKS cluster. Create an AWS Lambda function to synchronize the data between file systems.

Answer: B

NEW QUESTION 124

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