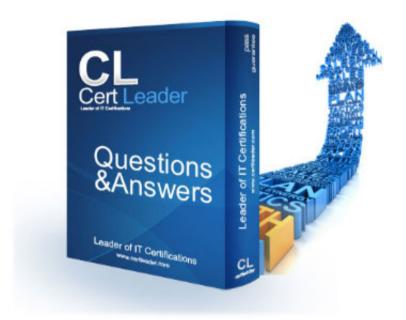# SAA-C03 Dumps

# AWS Certified Solutions Architect - Associate (SAA-C03)

## https://www.certleader.com/SAA-C03-dumps.html

**NEW QUESTION 1**
A company uses a popular content management system (CMS) for its corporate website. However, the required patching and maintenance are burdensome. The company is redesigning its website and wants anew solution. The website will be updated four times a year and does not need to have any dynamic content available. The solution must provide high scalability and enhanced security.
Which combination of changes will meet these requirements with the LEAST operational overhead? (Choose two.)

A. Deploy an AWS WAF web ACL in front of the website to provide HTTPS functionality
B. Create and deploy an AWS Lambda function to manage and serve the website content
C. Create the new website and an Amazon S3 bucket Deploy the website on the S3 bucket with static website hosting enabled
D. Create the new websit
E. Deploy the website by using an Auto Scaling group of Amazon EC2 instances behind an Application Load Balancer.

**Answer:** AD


**NEW QUESTION 2**
A solutions architect is designing a new hybrid architecture to extend a company s on-premises infrastructure to AWS The company requires a highly available connection with consistent low latency to an AWS Region. The company needs to minimize costs and is willing to accept slower traffic if the primary connection fails.
What should the solutions architect do to meet these requirements?

A. Provision an AWS Direct Connect connection to a Region Provision a VPN connection as a backup if the primary Direct Connect connection fails.
B. Provision a VPN tunnel connection to a Region for private connectivit
C. Provision a second VPN tunnel for private connectivity and as a backup if the primary VPN connection fails.
D. Provision an AWS Direct Connect connection to a Region Provision a second Direct Connect connection to the same Region as a backup if the primary Direct Connect connection fails.
E. Provision an AWS Direct Connect connection to a Region Use the Direct Connect failover attribute from the AWS CLI to automatically create a backup connection if the primary Direct Connect connection fails.

**Answer:** A

**Explanation:**
Explanation
"In some cases, this connection alone is not enough. It is always better to guarantee a fallback connection as the backup of DX. There are several options, but implementing it with an AWS Site-To-Site VPN is a real
cost-effective solution that can be exploited to reduce costs or, in the meantime, wait for the setup of a second DX."
https://www.proud2becloud.com/hybrid-cloud-networking-backup-aws-direct-connect-network-connection-with


**NEW QUESTION 3**
A company is developing a file-sharing application that will use an Amazon S3 bucket for storage. The company wants to serve all the files through an Amazon CloudFront distribution. The company does not want the files to be accessible through direct navigation to the S3 URL.
What should a solutions architect do to meet these requirements?

A. Write individual policies for each S3 bucket to grant read permission for only CloudFront access.
B. Create an IAM use
C. Grant the user read permission to objects in the S3 bucke
D. Assign the user to CloudFront.
E. Write an S3 bucket policy that assigns the CloudFront distribution ID as the Principal and assigns the target S3 bucket as the Amazon Resource Name (ARN).
F. Create an origin access identity (OAI). Assign the OAI to the CloudFront distributio
G. Configure the S3 bucket permissions so that only the OAI has read permission.

**Answer:** D

**Explanation:**
Explanation
https://aws.amazon.com/premiumsupport/knowledge-center/cloudfront-access-to-amazon-s3/
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3


**NEW QUESTION 4**
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 meats 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 thre
G. Use Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volumes to store the photos and metadata.

**Answer:** A


**NEW QUESTION 5**
An application runs on an Amazon EC2 instance in a VPC. The application processes logs that are stored in an Amazon S3 bucket. The EC2 instance needs to

access the S3 bucket without connectivity to the internet.
Which solution will provide private network connectivity to Amazon S3?

A. Create a gateway VPC endpoint to the S3 bucket.
B. Stream the logs to Amazon CloudWatch Log
C. Export the logs to the S3 bucket.
D. Create an instance profile on Amazon EC2 to allow S3 access.
E. Create an Amazon API Gateway API with a private link to access the S3 endpoint.

**Answer:** A


**NEW QUESTION 6**
A company maintains a searchable repository of items on its website. The data is stored in an Amazon RDS for MySQL database table that contains more than 10 million rows The database has 2 TB of General Purpose SSD storage There are millions of updates against this data every day through the company's website
The company has noticed that some insert operations are taking 10 seconds or longer The company has determined that the database storage performance is the problem
Which solution addresses this performance issue?

A. Change the storage type to Provisioned IOPS SSD
B. Change the DB instance to a memory optimized instance class
C. Change the DB instance to a burstable performance instance class
D. Enable Multi-AZ RDS read replicas with MySQL native asynchronous replication.

**Answer:** A

**Explanation:**
Explanation
https://aws.amazon.com/ebs/features/
"Provisioned IOPS volumes are backed by solid-state drives (SSDs) and are the highest performance EBS volumes designed for your critical, I/O intensive database applications. These volumes are ideal for both IOPS-intensive and throughput-intensive workloads that require extremely low latency."


**NEW QUESTION 7**
A company hosts a marketing website in an on-premises data center. The website consists of static documents and runs on a single server. An administrator updates the website content infrequently and uses an SFTP client to upload new documents.
The company decides to host its website on AWS and to use Amazon CloudFront. The company's solutions architect creates a CloudFront distribution. The solutions architect must design the most cost-effective and resilient architecture for website hosting to serve as the CloudFront origin.
Which solution will meet these requirements?

A. Create a virtual server by using Amazon Lightsai
B. Configure the web server in the Lightsail instance.Upload website content by using an SFTP client.
C. Create an AWS Auto Scaling group for Amazon EC2 instance
D. Use an Application Load Balancer.Upload website content by using an SFTP client.
E. Create a private Amazon S3 bucke
F. Use an S3 bucket policy to allow access from a CloudFront origin access identity (OAI). Upload website content by using theAWSCLI.
G. Create a public Amazon S3 bucke
H. Configure AWS Transfer for SFT
I. Configure the S3 bucket for website hostin
J. Upload website content by using the SFTP client.

**Answer:** D


**NEW QUESTION 8**
A solutions architect must design a highly available infrastructure for a website. The website is powered by Windows web servers that run on Amazon EC2 instances. The solutions architect must implement a solution that can mitigate a large-scale DDoS attack that originates from thousands of IP addresses. Downtime is not acceptable for the website.
Which actions should the solutions architect take to protect the website from such an attack? (Select TWO.)

A. Use AWS Shield Advanced to stop the DDoS attack.
B. Configure Amazon GuardDuty to automatically block the attackers.
C. Configure the website to use Amazon CloudFront for both static and dynamic content.
D. Use an AWS Lambda function to automatically add attacker IP addresses to VPC network ACLs.
E. Use EC2 Spot Instances in an Auto Scaling group with a target tracking scaling policy that is set to 80% CPU utilization

**Answer:** AC


**NEW QUESTION 9**
A company wants to manage Amazon Machine Images (AMIs). The company currently copies AMIs to the same AWS Region where the AMIs were created. The company needs to design an application that captures AWS API calls and sends alerts whenever the Amazon EC2 CreateImage API operation is called within the company's account.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an AWS Lambda function to query AWS CloudTrail logs and to send an alert when a CreateImage API call is detected.
B. Configure AWS CloudTrail with an Amazon Simple Notification Service {Amazon SNS) notification that occurs when updated logs are sent to Amazon S3. Use Amazon Athena to create a new table and to query on CreateImage when an API call is detected.
C. Create an Amazon EventBridge (Amazon CloudWatch Events) rule for the CreateImage API call.Configure the target as an Amazon Simple Notification Service (Amazon SNS) topic to send an alert when a CreateImage API call is detected.
D. Configure an Amazon Simple Queue Service (Amazon SQS) FIFO queue as a target for AWS CloudTrail log
E. Create an AWS Lambda function to send an alert to an Amazon Simple NotificationService (Amazon SNS) topic when a CreateImage API call is detected.

**Answer:** B

**NEW QUESTION 10**
A company hosts a two-tier application on Amazon EC2 instances and Amazon RDS. The application's demand varies based on the time of day. The load is minimal after work hours and on weekends. The EC2 instances run in an EC2 Auto Scaling group that is configured with a minimum of two instances and a maximum of five instances. The application must be available at all times, but the company is concerned about overall cost.
Which solution meets the availability requirement MOST cost-effectively?

A. Use all EC2 Spot Instance
B. Stop the RDS database when it is not in use.
C. Purchase EC2 Instance Savings Plans to cover five EC2 instance
D. Purchase an RDS Reserved DB Instance
E. Purchase two EC2 Reserved Instances Use up to three additional EC2 Spot Instances as neede
F. Stop the RDS database when it is not in use.
G. Purchase EC2 Instance Savings Plans to cover two EC2 instance
H. Use up to three additional EC2 On-Demand Instances as neede
I. Purchase an RDS Reserved DB Instance.

**Answer:** D

**NEW QUESTION 10**
A company hosts an application on multiple Amazon EC2 instances The application processes messages from an Amazon SQS queue writes to an Amazon RDS table and deletes the message from the queue Occasional duplicate records are found in the RDS table. The SQS queue does not contain any duplicate messages.
What should a solutions architect do to ensure messages are being processed once only?

A. Use the CreateQueue API call to create a new queue
B. Use the Add Permission API call to add appropriate permissions
C. Use the ReceiveMessage API call to set an appropriate wail time
D. Use the ChangeMessageVisibility APi call to increase the visibility timeout

**Answer:** D

**Explanation:**
Explanation
The visibility timeout begins when Amazon SQS returns a message. During this time, the consumer processes and deletes the message. However, if the consumer fails before deleting the message and your system doesn't call the DeleteMessage action for that message before the visibility timeout expires, the message becomes visible to other consumers and the message is received again. If a message must be received only once, your consumer should delete it within the duration of the visibility timeout. https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-visibility-timeout.html
Keyword: SQS queue writes to an Amazon RDS From this, Option D best suite &amp; other Options ruled out [Option A - You can't intruduce one more Queue in the existing one; Option B - only Permission &amp; Option C - Only Retrieves Messages] FIF O queues are designed to never introduce duplicate messages. However, your message producer might introduce duplicates in certain scenarios: for example, if the producer sends a message, does not receive a response, and then resends the same message. Amazon SQS APIs provide deduplication functionality that prevents your message producer from sending duplicates. Any duplicates introduced by the message producer are removed within a 5-minute deduplication interval. For standard queues, you might occasionally receive a duplicate copy of a message (at-least- once delivery). If you use a standard queue, you must design your applications to be idempotent (that is, they must not be affected adversely when processing the same message more than once).

**NEW QUESTION 13**
A company hosts a containerized web application on a fleet of on-premises servers that process incoming requests. The number of requests is growing quickly. The on-premises servers cannot handle the increased number of requests. The company wants to move the application to AWS with minimum code changes and minimum development effort.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Fargate on Amazon Elastic Container Service (Amazon ECS) to run the containerized web application with Service Auto Scalin
B. Use an Application Load Balancer to distribute the incoming requests.
C. Use two Amazon EC2 instances to host the containerized web applicatio
D. Use an Application Load Balancer to distribute the incoming requests
E. Use AWS Lambda with a new code that uses one of the supported language
F. Create multiple Lambda functions to support the loa
G. Use Amazon API Gateway as an entry point to the Lambda functions.
H. Use a high performance computing (HPC) solution such as AWS ParallelClusterto establish an HPC cluster that can process the incoming requests at the appropriate scale.

**Answer:** A

**NEW QUESTION 16**
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 17**
A company is designing an application. The application uses an AWS Lambda function to receive information through Amazon API Gateway and to store the information in an Amazon Aurora PostgreSQL database.
During the proof-of-concept stage, the company has to increase the Lambda quotas significantly to handle the high volumes of data that the company needs to load into the database. A solutions architect must recommend a new design to improve scalability and minimize the configuration effort.
Which solution will meet these requirements?

A. Refactor the Lambda function code to Apache Tomcat code that runs on Amazon EC2 instances.Connect the database by using native Java Database Connectivity (JDBC) drivers.
B. Change the platform from Aurora to Amazon DynamoD
C. Provision a DynamoDB Accelerator (DAX) cluste
D. Use the DAX client SDK to point the existing DynamoDB API calls at the DAX cluster.
E. Set up two Lambda function
F. Configure one function to receive the informatio
G. Configure the other function to load the information into the databas
H. Integrate the Lambda functions by using Amazon Simple Notification Service (Amazon SNS).
I. Set up two Lambda function
J. Configure one function to receive the informatio
K. Configure the other function to load the information into the databas
L. Integrate the Lambda functions by using an Amazon Simple Queue Service (Amazon SQS) queue.

**Answer:** D

**Explanation:**
Explanation
bottlenecks can be avoided with queues (SQS).

**NEW QUESTION 22**
A company needs to review its AWS Cloud deployment to ensure that its Amazon S3 buckets do not have unauthorized configuration changes.
What should a solutions architect do to accomplish this goal?

A. Turn on AWS Config with the appropriate rules.
B. Turn on AWS Trusted Advisor with the appropriate checks.
C. Turn on Amazon Inspector with the appropriate assessment template.
D. Turn on Amazon S3 server access loggin
E. Configure Amazon EventBridge (Amazon Cloud Watch Events).

**Answer:** A

**NEW QUESTION 24**
A company provides a Voice over Internet Protocol (VoIP) service that uses UDP connections. The service consists of Amazon EC2 instances that run in an Auto Scaling group. The company has deployments across multiple AWS Regions.
The company needs to route users to the Region with the lowest latency. The company also needs automated failover between Regions.
Which solution will meet these requirements?

A. Deploy a Network Load Balancer (NLB) and an associated target grou
B. Associate the target group with the Auto Scaling grou
C. Use the NLB as an AWS Global Accelerator endpoint in each Region.
D. Deploy an Application Load Balancer (ALB) and an associated target grou
E. Associate the target group with the Auto Scaling grou
F. Use the ALB as an AWS Global Accelerator endpoint in each Region.
G. Deploy a Network Load Balancer (NLB) and an associated target grou
H. Associate the target group with the Auto Scaling grou
I. Create an Amazon Route 53 latency record that points to aliases for each NL
J. Create an AmazonCloudFront distribution that uses the latency record as an origin.
K. Deploy an Application Load Balancer (ALB) and an associated target grou
L. Associate the target group with the Auto Scaling grou
M. Create an Amazon Route 53 weighted record that points to aliases for each AL
N. Deploy an AmazonCloudFront distribution that uses the weighted record as an origin.

**Answer:** C

**NEW QUESTION 26**
A company that hosts its web application on AWS wants to ensure all Amazon EC2 instances. Amazon RDS DB instances. and Amazon Redshift clusters are configured with tags. The company wants to minimize the effort of configuring and operating this check.
What should a solutions architect do to accomplish this?

A. Use AWS Config rules to define and detect resources that are not properly tagged.
B. Use Cost Explorer to display resources that are not properly tagge
C. Tag those resources manually.
D. Write API calls to check all resources for proper tag allocatio
E. Periodically run the code on an EC2 instance.

F. Write API calls to check all resources for proper tag allocatio
G. Schedule an AWS Lambda function through Amazon CloudWatch to periodically run the code.

**Answer:** A

**NEW QUESTION 29**
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 Loa d 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 34**
A company has thousands of edge devices that collectively generate 1 TB of status alerts each day.
Each alert is approximately 2 KB in size. A solutions architect needs to implement a solution to ingest and store the alerts for future analysis.
The company wants a highly available solution. However, the company needs to minimize costs and does not want to manage additional infrastructure.
Additionally, the company wants to keep 14 days of data available for immediate analysis and archive any data older than 14 days.
What is the MOST operationally efficient solution that meets these requirements?

A. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon S3 bucket Set up an S3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days
B. Launch Amazon EC2 instances across two Availability Zones and place them behind an Elastic Load Balancer to ingest the alerts Create a script on the EC2 instances that will store tne alerts m an Amazon S3 bucket Set up an S3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days
C. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon Elasticsearch Service (Amazon ES) duster Set up the Amazon ES cluster to take manual snapshots every day and delete data from the duster that is older than 14 days
D. Create an Amazon Simple Queue Service (Amazon SQS i standard queue to ingest the alerts and set the message retention period to 14 days Configure consumers to poll the SQS queue check the age of the message and analyze the message data as needed If the message is 14 days old the consumer should copy the message to an Amazon S3 bucket and delete the message from the SQS queue

**Answer:** A

**Explanation:**
Explanation
https://aws.amazon.com/kinesis/datafirehose/features/?nc=sn&loc=2#:~:text=into%20Amazon%20S3%2C%20Amazon%20Redshift%2C%20Amazon%20OpenSearch%20Service%2C%20Kinesis,Delivery%20streams

**NEW QUESTION 36**
A company's application integrates with multiple software-as-a-service (SaaS) sources for data collection. The company runs Amazon EC2 instances to receive the data and to upload the data to an Amazon S3 bucket for analysis. The same EC2 instance that receives and uploads the data also sends a notification to the user when an upload is complete. The company has noticed slow application performance and wants to improve the performance as much as possible.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an Auto Scaling group so that EC2 instances can scale ou
B. Configure an S3 event notification to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.
C. Create an Amazon AppFlow flow to transfer data between each SaaS source and the S3 bucket.Configure an S3 event notification to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.
D. Create an Amazon EventBridge (Amazon CloudWatch Events) rule for each SaaS source to send output dat
E. Configure the S3 bucket as the rule's targe
F. Create a second EventBridge (CloudWatch Events) rule to send events when the upload to the S3 bucket is complet
G. Configure an Amazon Simple Notification Service (Amazon SNS) topic as the second rule's target.
H. Create a Docker container to use instead of an EC2 instanc
I. Host the containerized application on Amazon Elastic Container Service (Amazon ECS). Configure Amazon CloudWatch Container Insights to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.

**Answer:** B

**NEW QUESTION 39**
A company runs a highly available image-processing application on Amazon EC2 instances in a single VPC The EC2 instances run inside several subnets across multiple Availability Zones. The EC2 instances do not communicate with each other However, the EC2 instances download images from Amazon S3 and upload images to Amazon S3 through a single NAT gateway The company is concerned about data transfer charges What is the MOST cost-effective way for the

company to avoid Regional data transfer charges?

A. Launch the NAT gateway in each Availability Zone
B. Replace the NAT gateway with a NAT instance
C. Deploy a gateway VPC endpoint for Amazon S3
D. Provision an EC2 Dedicated Host to run the EC2 instances

**Answer:** C

**NEW QUESTION 41**
A company has an on-premises application that generates a large amount of time-sensitive data that is backed up to Amazon S3. The application has grown and there are user complaints about internet bandwidth limitations. A solutions architect needs to design a long-term solution that allows for both timely backups to Amazon S3 and with minimal impact on internet connectivity for internal users.
Which solution meets these requirements?

A. Establish AWS VPN connections and proxy all traffic through a VPC gateway endpoint
B. Establish a new AWS Direct Connect connection and direct backup traffic through this new connection.
C. Order daily AWS Snowball devices Load the data onto the Snowball devices and return the devices to AWS each day.
D. Submit a support ticket through the AWS Management Console Request the removal of S3 service limits from the account.

**Answer:** B

**NEW QUESTION 46**
A company has a data ingestion workflow that consists the following:
An Amazon Simple Notification Service (Amazon SNS) topic for notifications about new data deliveries An AWS Lambda function to process the data and record metadata The company observes that the ingestion workflow fails occasionally because of network connectivity issues. When such a failure occurs, the Lambda function does not ingest the corresponding data unless the company manually reruns the job.
Which combination of actions should a solutions architect take to ensure that the Lambda function ingests all data in the future? (Select TWO.)

A. Configure the Lambda function In multiple Availability Zones.
B. Create an Amazon Simple Queue Service (Amazon SQS) queue, and subscribe It to me SNS topic.
C. Increase the CPU and memory that are allocated to the Lambda function.
D. Increase provisioned throughput for the Lambda function.
E. Modify the Lambda function to read from an Amazon Simple Queue Service (Amazon SQS) queue

**Answer:** BE

**NEW QUESTION 50**
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 53**
A company stores call transcript files on a monthly basis. Users access the files randomly within 1 year of the call, but users access the files infrequently after 1 year. The company wants to optimize its solution by giving users the ability to query and retrieve files that are less than 1-year-old as quickly as possible. A delay in retrieving older files is acceptable.
Which solution will meet these requirements MOST cost-effectively?

A. Store individual files with tags in Amazon S3 Glacier Instant Retrieva
B. Query the tags to retrieve the files from S3 Glacier Instant Retrieval.
C. Store individual files in Amazon S3 Intelligent-Tierin
D. Use S3 Lifecycle policies to move the files to S3 Glacier Flexible Retrieval after 1 yea
E. Query and retrieve the files that are in Amazon S3 by using Amazon Athen
F. Query and retrieve the files that are in S3 Glacier by using S3 Glacier Select.
G. Store individual files with tags in Amazon S3 Standard storag
H. Store search metadata for each archive in Amazon S3 Standard storag
I. Use S3 Lifecycle policies to move the files to S3 Glacier Instant Retrieval after 1 yea
J. Query and retrieve the files by searching for metadata from Amazon S3.
K. Store individual files in Amazon S3 Standard storag
L. Use S3 Lifecycle policies to move the files to S3 Glacier Deep Archive after 1 yea
M. Store search metadata in Amazon RD
N. Query the files from Amazon RD
O. Retrieve the files from S3 Glacier Deep Archive.

**Answer:** C

**NEW QUESTION 55**
A company is developing an application that provides order shipping statistics for retrieval by a REST API. The company wants to extract the shipping statistics, organize the data into an easy-to-read HTML format, and send the report to several email addresses at the same time every morning.
Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

A. Configure the application to send the data to Amazon Kinesis Data Firehose.
B. Use Amazon Simple Email Service (Amazon SES) to format the data and to send the report by email.
C. Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled event that invokes an AWS Glue job to query the application's API for the data.
D. Create an Amazon EventBridge (Amazon CloudWatch Events) scheduled event that invokes an AWS Lambda function to query the application's API for the data.
E. Store the application data in Amazon S3. Create an Amazon Simple Notification Service (Amazon SNS) topic as an S3 event destination to send the report by

**Answer:** DE


**NEW QUESTION 57**
A company needs to store its accounting records in Amazon S3. The records must be immediately accessible for 1 year and then must be archived for an additional 9 years. No one at the company, including administrative users and root users, can be able to delete the records during the entire 10- year period. The records must be stored with maximum resiliency.
Which solution will meet these requirements?

A. Store the records in S3 Glacier for the entire 10-year perio
B. Use an access control policy to deny deletion of the records for a period of 10 years.
C. Store the records by using S3 Intelligent-Tierin
D. Use an IAM policy to deny deletion of the records.After 10 years, change the IAM policy to allow deletion.
E. Use an S3 Lifecycle policy to transition the records from S3 Standard to S3 Glacier Deep Archive after 1 yea
F. Use S3 Object Lock in compliance mode for a period of 10 years.
G. Use an S3 Lifecycle policy to transition the records from S3 Standard to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 1 yea
H. Use S3 Object Lock in governance mode for a period of 10 years.

**Answer:** C


**NEW QUESTION 58**
A company needs to keep user transaction data in an Amazon DynamoDB table. The company must retain the data for 7 years.
What is the MOST operationally efficient solution that meets these requirements?

A. Use DynamoDB point-in-time recovery to back up the table continuously.
B. Use AWS Backup to create backup schedules and retention policies for the table.
C. Create an on-demand backup of the table by using the DynamoDB consol
D. Store the backup in an Amazon S3 bucke
E. Set an S3 Lifecycle configuration for the S3 bucket.
F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda functio
G. Configure the Lambda function to back up the table and to store the backup in an Amazon S3 bucke
H. Set an S3 Lifecycle configuration for the S3 bucket.

**Answer:** C


**NEW QUESTION 61**
A company is preparing to store confidential data in Amazon S3 For compliance reasons the data must be encrypted at rest Encryption key usage must be logged tor auditing purposes. Keys must be rotated every year.
Which solution meets these requirements and «the MOST operationally efferent?

A. Server-side encryption with customer-provided keys (SSE-C)
B. Server-side encryption with Amazon S3 managed keys (SSE-S3)
C. Server-side encryption with AWS KMS (SSE-KMS) customer master keys (CMKs) with manual rotation
D. Server-side encryption with AWS KMS (SSE-KMS) customer master keys (CMKs) with automate rotation

**Answer:** D

**Explanation:**
https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html
When you enable automatic key rotation for a customer managed key, AWS KMS generates new cryptographic material for the KMS key every year. AWS KMS also saves the KMS key's older cryptographic material in perpetuity so it can be used to decrypt data that the KMS key encrypted.
Key rotation in AWS KMS is a cryptographic best practice that is designed to be transparent and easy to use.
AWS KMS supports optional automatic key rotation only for customer managed CMKs. Enable and disable key rotation. Automatic key rotation is disabled by default on customer managed CMKs. When you enable (or re-enable) key rotation, AWS KMS automatically rotates the CMK 365 days after the enable date and every 365 days thereafter.


**NEW QUESTION 64**
A solutions architect is designing the cloud architecture for a new application being deployed on AWS. The process should run in parallel while adding and removing application nodes as needed based on the number of fobs to be processed. The processor application is stateless. The solutions architect must ensure that the application is loosely copied and the job items are durably stored
Which design should the solutions architect use?

A. Create an Amazon SNS topic to send the jobs that need to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch configuration that uses the AMI Create an Auto Scaling group using the launch configuration Set the scaling policy for the Auto Scaling group to add and remove nodes based on CPU usage
B. Create an Amazon SQS queue to hold the jobs that need to be processed Create an Amazon Machine image (AMI) that consists of the processor application Create a launch configuration that uses the AM' Create an Auto Scaling group using the launch configuration Set the scaling policy for the Auto Scaling group to add and remove nodes based on network usage
C. Create an Amazon SQS queue to hold the jobs that needs to be processed Create an Amazon Machine image (AMI) that consists of the processor application Create a launch template that uses the AMI Create an Auto Scaling group using the launch template Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue
D. Create an Amazon SNS topic to send the jobs that need to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch template that uses the AMI Create an Auto Scaling group using the launch template Set the scaling policy for the Auto Scaling group to add and

remove nodes based on the number of messages published to the SNS topic

**Answer:** C

**Explanation:**
"Create an Amazon SQS queue to hold the jobs that needs to be processed. Create an Amazon EC2 Auto Scaling group for the compute application. Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue"
In this case we need to find a durable and loosely coupled solution for storing jobs. Amazon SQS is ideal for this use case and can be configured to use dynamic scaling based on the number of jobs waiting in the queue.To configure this scaling you can use the backlog per instance metric with the target value being the acceptable backlog per instance to maintain. You can calculate these numbers as follows: Backlog per instance: To calculate your backlog per instance, start with the ApproximateNumberOfMessages queue attribute to determine the length of the SQS queue

**NEW QUESTION 68**
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 me 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 ate 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 syste
E. Mount the file system on each of the EC2 instances

**Answer:** D

**NEW QUESTION 69**
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 70**
A company hosts its product information webpages on AWS The existing solution uses multiple Amazon EC2 instances behind an Application Load Balancer in an Auto Scaling group. The website also uses a custom DNS name and communicates with HTTPS only using a dedicated SSL certificate The company is planning a new product launch and wants to be sure that users from around the world have the best possible experience on the new website
What should a solutions architect do to meet these requirements?

A. Redesign the application to use Amazon CloudFront
B. Redesign the application to use AWS Elastic Beanstalk
C. Redesign the application to use a Network Load Balancer.
D. Redesign the application to use Amazon S3 static website hosting

**Answer:** A

**Explanation:**
as CloudFront can help provide the best experience for global users. CloudFront integrates seamlessly with ALB and provides and option to use custom DNS and SSL certs.

**NEW QUESTION 73**
A company's web application consists of multiple Amazon EC2 instances that run behind an Application Load Balancer in a VPC. An Amazon ROS for MySQL DB instance contains the data. The company needs the ability to automatically detect and respond to suspicious or unexpected behaviour in its AWS environment the company already has added AWS WAF to its architecture.
What should a solutions architect do next lo protect against threats?

A. Use Amazon GuardDuty to perform threat detectio
B. Configure Amazon EventBridge (Amazon CloudWatch Events) to filler for GuardDuty findings and to invoke pin AWS Lambda function to adjust the AWS WAF rules
C. Use AWS Firewall Manager to perform threat detection Configure Amazon EventBridge (Amazon CloudWatch Events) to filter for Firewall Manager findings and to invoke an AWS Lambda function to adjust the AWS WAF web ACL
D. Use Amazon Inspector to perform three! detection and to update the AWS WAT rules Create a VPC network ACL to limit access to the web application
E. Use Amazon Macie to perform throat detection and to update the AWS WAF rules Create a VPC network ACL to limit access to the web application

**Answer:** A

**NEW QUESTION 78**
An image hosting company uploads its large assets to Amazon S3 Standard buckets. The company uses multipart upload in parallel by using S3 APIs and overwrites if the same object is uploaded again. For the first 30 days after upload, the objects will be accessed frequently. The objects will be used less frequently after 30 days, but the access patterns for each object will be inconsistent. The company must optimize its S3 storage costs while maintaining high availability and resiliency of stored assets.
Which combination of actions should a solutions architect recommend to meet these requirements? (Select TWO.)

A. Move assets to S3 Intelligent-Tiering after 30 days.
B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads.
C. Configure an S3 Lifecycle policy to clean up expired object delete markers.
D. Move assets to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.
E. Move assets to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.

**Answer:** CD


**NEW QUESTION 80**
A company is implementing a new business application The application runs on two Amazon EC2 instances and uses an Amazon S3 bucket for document storage
A solutions architect needs to ensure that the EC? instances can access the S3 bucket
What should the solutions architect do to moot this requirement?

A. Create an IAM role that grants access to the S3 bucke
B. Attach the role to the EC2 Instances.
C. Create an IAM policy that grants access to the S3 bucket Attach the policy to the EC2 Instances
D. Create an IAM group that grants access to the S3 bucket Attach the group to the EC2 instances
E. Create an IAM user that grants access to the S3 bucket Attach the user account to the EC2 Instances

**Answer:** C


**NEW QUESTION 83**
A company has an on-premises MySQL database that handles transactional data The company is migrating the database to the AWS Cloud The migrated database must maintain compatibility with the company's applications that use the database The migrated database also must scale automatically during periods of increased demand.
Which migration solution will meet these requirements?

A. Use native MySQL tools to migrate the database to Amazon RDS for MySQL Configure elastic storage scaling
B. Migrate the database to Amazon Redshift by using the mysqldump utility Turn on Auto Scaling for the Amazon Redshift cluster
C. Use AWS Database Migration Service (AWS DMS) to migrate the database to Amazon Aurora Turn on Aurora Auto Scaling.
D. Use AWS Database Migration Service (AWS DMS) to migrate the database to Amazon DynamoDB Configure an Auto Scaling policy.

**Answer:** C


**NEW QUESTION 86**
A company wants to build a scalable key management Infrastructure to support developers who need to encrypt data in their applications.
What should a solutions architect do to reduce the operational burden?

A. Use multifactor authentication (MFA) to protect the encryption keys.
B. Use AWS Key Management Service (AWS KMS) to protect the encryption keys
C. Use AWS Certificate Manager (ACM) to create, store, and assign the encryption keys
D. Use an IAM policy to limit the scope of users who have access permissions to protect the encryption keys

**Answer:** B


**NEW QUESTION 88**
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 siz
C. Increase the storage capacity to 24 TiB Change the storage type to Provisioned IOPS
D. Create an Amazon S3 bucke
E. Update the application to store documents in the S3 bucket Store theobject metadata m the existing database
F. Create an Amazon DynamoDB tabl
G. Update the application to use DynamoD
H. Use AWS Database Migration Service (AWS DMS) to migrate data from the Oracle database to DynamoDB

**Answer:** C


**NEW QUESTION 90**
A company has a three-tier web application that is deployed on AWS. The web servers are deployed in a public subnet in a VPC. The application servers and database servers are deployed in private subnets in the same VPC. The company has deployed a third-party virtual firewall appliance from AWS Marketplace in an inspection VPC. The appliance is configured with an IP interface that can accept IP packets.
A solutions architect needs to Integrate the web application with the appliance to inspect all traffic to the application before the traffic teaches the web server.
Which solution will moot these requirements with the LEAST operational overhead?

A. Create a Network Load Balancer the public subnet of the application's VPC to route the traffic lo the appliance for packet inspection
B. Create an Application Load Balancer in the public subnet of the application's VPC to route the traffic to the appliance for packet inspection
C. Deploy a transit gateway m the inspection VPC Configure route tables to route the incoming pockets through the transit gateway
D. Deploy a Gateway Load Balancer in the inspection VPC Create a Gateway Load Balancer endpoint to receive the incoming packets and forward the packets to the appliance

**Answer:** D

**NEW QUESTION 95**

A company's website handles millions of requests each day and the number of requests continues to increase. A solutions architect needs to improve the response time of the web application. The solutions architect determines that the application needs to decrease latency when retrieving product details from the Amazon DynamoDB table
Which solution will meet these requirements with the LEAST amount of operational overhead?

A. Set up a DynamoDB Accelerator (DAX) cluster Route all read requests through DAX.
B. Set up Amazon ElastiCache for Redis between the DynamoDB table and the web application Route all read requests through Redis.
C. Set up Amazon ElastrCachertor Memcached between the DynamoDB table and the web application Route all read requests through Memcached.
D. Set up Amazon DynamoDB streams on the table and have AWS Lambda read from the table andpopulate Amazon ElastiCache Route all read requests through ElastiCache

**Answer:** A

**NEW QUESTION 99**

A company's ecommerce website has unpredictable traffic and uses AWS Lambda functions to directly access a private Amazon RDS for PostgreSQL DB instance. The company wants to maintain predictable database performance and ensure that the Lambda invocations do not overload the database with too many connections.
What should a solutions architect do to meet these requirements?

A. Point the client driver at an RDS custom endpoint Deploy the Lambda functions inside a VPC
B. Point the client driver at an RDS proxy endpoint Deploy the Lambda functions inside a VPC
C. Point the client driver at an RDS custom endpoint Deploy the Lambda functions outside a VPC
D. Point the client driver at an RDS proxy endpoint Deploy the Lambda functions outside a VPC

**Answer:** B

**NEW QUESTION 101**

A gaming company has a web application that displays scores. The application runs on Amazon EC2 instances behind an Application Load Balancer. The application stores data in an Amazon RDS for MySQL database. Users are starting to experience long delays and interruptions that are caused by database read performance. The company wants to improve the user experience while minimizing changes to the application's architecture.
What should a solutions architect do to meet these requirements?

A. Use Amazon ElastiCache in front of the database.
B. Use RDS Proxy between the application and the database.
C. Migrate the application from EC2 instances to AWS Lambda.
D. Migrate the database from Amazon RDS for MySQL to Amazon DynamoDB.

**Answer:** C

**NEW QUESTION 105**

A company is building a containerized application on premises and decides to move the application to AWS. The application will have thousands of users soon after li is deployed. The company Is unsure how to manage the deployment of containers at scale. The company needs to deploy the containerized application in a highly available architecture that minimizes operational overhead.
Which solution will meet these requirements?

A. Store container images In an Amazon Elastic Container Registry (Amazon ECR) repositor
B. Use an Amazon Elastic Container Service (Amazon ECS) cluster with the AWS Fargate launch type to run the container
C. Use target tracking to scale automatically based on demand.
D. Store container images in an Amazon Elastic Container Registry (Amazon ECR) repositor
E. Use an Amazon Elastic Container Service (Amazon ECS) cluster with the Amazon EC2 launch type to run the container
F. Use target tracking to scale automatically based on demand.
G. Store container images in a repository that runs on an Amazon EC2 instanc
H. Run the containers on EC2 instances that are spread across multiple Availability Zone
I. Monitor the average CPU utilization in Amazon CloudWatc
J. Launch new EC2 instances as needed
K. Create an Amazon EC2 Amazon Machine Image (AMI) that contains the container image Launch EC2 Instances in an Auto Scaling group across multiple Availability Zone
L. Use an Amazon CloudWatch alarm to scale out EC2 instances when the average CPU utilization threshold is breached.

**Answer:** A

**NEW QUESTION 110**

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 organizatio
D. Migrate resources from the period R&D AWS account to thee new R&D AWS account
E. Have the R&D AWS account into the now organisatio
F. Make the now management account a member of the prior organisation

**Answer:** B

**NEW QUESTION 112**

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 (rack 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 1AM policies of users who need to delete the objects

**Answer:** D

## NEW QUESTION 117
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 nature 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 informatio
B. Use Amazon API Gateway and AWS Lambda to receive the JSON status data Store the JSON data m Amazon S3.
C. Use Amazon EC2 instances as wad servers across multiple Availability Zone
D. Run the EC2 instances inan Auto Scaling grou
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 Zone
G. Run the EC2 instances in an Auto Scaling grou
H. Use a REST endpoint on the EC2 instances to receive the JSON status dat
I. Store the JSON data in an Amazon RDS Mufti-AZ DB instance.
J. Use Amazon EC? instances as web servers across multiple Availability zones Run the FC? instances in an Auto Scaling group Use a REST endpoint on the EC? instances to receive the JSON status data Store the JSON data in an Amazon DynamoDB table.

**Answer:** D

## NEW QUESTION 122
A company runs multiple Windows workloads on AWS. The company's employees use Windows the file shares that are hosted on two Amazon EC2 instances. The file shares synchronize data between themselves and maintain duplicate copies. The company wants a highly available and durable storage solution that preserves how users currently access the files.

A. Migrate all the data to Amazon S3 Set up IAM authentication for users to access files
B. Set up an Amazon S3 File Gatewa
C. Mount the S3 File Gateway on the existing EC2 Instances.
D. Extend the file share environment to Amazon FSx for Windows File Server with a Multi-AZ configuratio
E. Migrate all the data to FSx for Windows File Server.
F. Extend the file share environment to Amazon Elastic File System (Amazon EFS) with a Multi-AZ configuratio
G. Migrate all the data to Amazon EFS.

**Answer:** C

## NEW QUESTION 123
A company wants to analyze and troubleshoot Access Denied errors and unauthorized errors that ate related to IAM permissions. The company has AWS ClouTrail turned on.
Which solution will meet these requirements with the LEAST effort?

A. Use AWS Glue and mile custom scripts lo query CloudTrail logs for the errors.
B. Use AWS Batch and write custom scripts to query CloudTrail logs for the errors.
C. Search CloudTrail logs will Amazon Athena queries to identify the errors
D. Search CloudTrail logs with Amazon QuicKSight Create a dashboard to identify the errors

**Answer:** C

## NEW QUESTION 126
A company has an application that runs on Amazon EC2 instances and uses an Amazon Aurora database. The EC2 instances connect to the database by using user names and passwords that are stored locally in a file. The company wants to minimize the operational overhead of credential management.
What should a solutions architect do to accomplish this goal?

A. Use AWS Secrets Manage
B. Turn on automatic rotation.
C. Use AWS Systems Manager Parameter Stor
D. Turn on automatic rotatio
E. • Create an Amazon S3 bucket lo store objects that are encrypted with an AWS Key
F. Management Service (AWS KMS) encryption ke
G. Migrate the credential file to the S3 bucke
H. Point the application to the S3 bucket.
I. Create an encrypted Amazon Elastic Block Store (Amazon EBS) volume (or each EC2 instanc
J. Attach the new EBS volume to each EC2 instanc
K. Migrate the credential file to the new EBS volum
L. Point the application to the new EBS volume.

**Answer:** C

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**NEW QUESTION 130**
A hospital recently deployed a RESTful API with Amazon API Gateway and AWS Lambda The hospital uses API Gateway and Lambda to upload reports that are in PDF format and JPEG format The hospital needs to modify the Lambda code to identify protected health information (PHI) in the reports
Which solution will meet these requirements with the LEAST operational overhead?

A. Use existing Python libraries to extract the text from the reports and to identify the PHI from the extracted text.
B. Use Amazon Textract to extract the text from the reports Use Amazon SageMaker to identify the PHI from the extracted text.
C. Use Amazon Textract to extract the text from the reports Use Amazon Comprehend Medical to identify the PHI from the extracted text
D. Use Amazon Rekognition to extract the text from the reports Use Amazon Comprehend Medical to identify the PHI from the extracted text

**Answer:** C

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**NEW QUESTION 131**
A company has an application that loads documents into an Amazon 53 bucket and converts the documents into another format. The application stores the converted documents m another S3 bucket and saves the document name and URLs in an Amazon DynamoOB table The DynamoOB entries are used during subsequent days to access the documents The company uses a DynamoOB Accelerator (DAX) cluster in front of the table
Recently, traffic to the application has increased. Document processing tasks are timing out during the scheduled DAX maintenance window. A solutions architect must ensure that the documents continue to load during the maintenance window
What should the solutions architect do to accomplish this goal?

A. Modify the application to write to the DAX cluster Configure the DAX cluster to write to the DynamoDB table when the maintenance window is complete
B. Enable Amazon DynamoDB Streams for the DynamoDB tabl
C. Modify the application to write to the stream Configure the stream to load the data when the maintenance window is complete.
D. Convert the application to an AWS Lambda function Configure the Lambda function runtime to be longer than the maintenance window Create an Amazon CloudWatch alarm to monitor Lambda timeouts
E. Modify the application to write the document name and URLs to an Amazon Simple Queue Service (Amazon SOS) queue Create an AWS Lambda function to read the SOS queue and write to DynamoDB.

**Answer:** C

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**NEW QUESTION 132**
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.

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**NEW QUESTION 134**
A company is designing an application to run in a VPC on AWS The application consists of Amazon EC2 instances that tun in private subnets as part of an Auto Scaling group The application also includes a Network Load Balancer that extends across public subnets The application stores data in an Amazon RDS OB instance
The company has attached a security group that is named "web-servers' to the EC2 instances. The company has attached a security group that is named "database" to the DB Instance.
How should a solutions architect configure the communication between the EC2 instances and the DB instance?

A. Configure the "web-servers* security group (o allow access lo the OB instance's current IP addresses Configure the "database" security group to allow access from the current set of IP addresses in use by the EC? instances
B. Configure the "web-servers" security group to allow access to the "database" security group Configure the "database" security group to allow access from the "web-servers" security group
C. Configure the "web-servers* security group to allow access to the DB instance's current IP addresses Configure the "database" security group to allow access from the Auto Scaling group
D. Configure the "web servers" security group to allow access to the "database" security group Configure the "database" security group to allow access from the Auto Scaling group

**Answer:** C

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**NEW QUESTION 138**
A company has two AWS accounts in the same AWS Region. One account is a publisher account, and the other account is a subscriber account Each account has its own Amazon S3 bucket.
An application puts media objects into the publisher account's S3 bucket The objects are encrypted with server-side encryption with customer-provided encryption keys (SSE-C). The company needs a solution that will automatically copy the objects to the subscriber's account's S3 bucket.
Which solution will meet these requirements with the LEAST operational overhead?

A. Enable S3 Versioning on the publisher account's S3 bucket Configure S3 Same-Region Replication of the objects to the subscriber account's S3 bucket
B. Create an AWS Lambda function that is invoked when objects are published in the publisher account's S3 bucke
C. Configure the Lambda function to copy the objects to the subscriber accounts S3 bucket

D. Configure Amazon EventBridge (Amazon CloudWatch Events) to invoke an AWS Lambda function when objects are published in the publisher account's S3 bucket Configure the Lambda function to copy the objects to the subscriber account's S3 bucket
E. Configure Amazon EventBridge (Amazon CloudWatch Events) to publish Amazon Simple Notification Service (Amazon SNS) notifications when objects are published in the publisher account's S3 bucket When notifications are received use the S3 console to copy the objects to the subscriber accounts S3 bucket

**Answer:** B

## NEW QUESTION 139

A hospital wants to create digital copies for its large collection of historical written records. The hospital will continue to add hundreds of new documents each day. The hospital's data team will scan the documents and will upload the documents to the AWS Cloud.
A solutions architect must implement a solution to analyze the documents: extract the medical information, and store the documents so that an application can run SQL queries on the data The solution must maximize scalability and operational efficiency
Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

A. Write the document information to an Amazon EC2 instance that runs a MySQL database
B. Write the document information to an Amazon S3 bucket Use Amazon Athena to query the data
C. Create an Auto Scaling group of Amazon EC2 instances to run a custom application that processes the scanned files and extracts the medical information.
D. Create an AWS Lambda function that runs when new documents are uploaded Use Amazon Rekognition to convert the documents to raw text Use Amazon Transcribe Medical to detect and extract relevant medical Information from the text.
E. Create an AWS Lambda function that runs when new documents are uploaded Use Amazon Textract to convert the documents to raw text Use Amazon Comprehend Medical to detect and extract relevant medical information from the text

**Answer:** AE

## NEW QUESTION 142

Availability Zone The company wants the application to be highly available with minimum downtime and minimum loss of data
Which solution will meet these requirements with the LEAST operational effort?

A. Place the EC2 instances in different AWS Regions Use Amazon Route 53 health checks to redirect traffic Use Aurora PostgreSQL Cross-Region Replication
B. Configure the Auto Scaling group to use multiple Availability Zones Configure the database as Multi-AZ Configure an Amazon RDS Proxy instance for the database
C. Configure the Auto Scaling group to use one Availability Zone Generate hourly snapshots of the database Recover the database from the snapshots in the event of a failure.
D. Configure the Auto Scaling group to use multiple AWS Regions Write the data from the application to Amazon S3 Use S3 Event Notifications to launch an AWS Lambda function to write the data to the database

**Answer:** B

## NEW QUESTION 144

A company has a web application that runs on Amazon EC2 instances. The company wants end users to authenticate themselves before they use the web application. The web application accesses AWS resources, such as Amazon S3 buckets, on behalf of users who are logged on.
Which combination of actions must a solutions architect take to meet these requirements? (Select TWO).

A. Configure AWS App Mesh to log on users.
B. Enable and configure AWS Single Sign-On in AWS Identity and Access Management (IAM).
C. Define a default (AM role for authenticated users.
D. Use AWS Identity and Access Management (IAM) for user authentication.
E. Use Amazon Cognito for user authentication.

**Answer:** BE

## NEW QUESTION 146

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 bucketUse 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 bucke
E. Configure an event notification for the S3 bucke
F. Specify the Lambda function as the destination for the event notification.

**Answer:** D

## NEW QUESTION 148

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 fcC2 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 150

A solutions architect is designing a new hybrid architecture to extend a company s on-premises infrastructure to AWS The company requires a highly available connection with consistent low latency to an AWS Region. The company needs to minimize costs and is willing to accept slower traffic if the primary connection fails.
What should the solutions architect do to meet these requirements?

A. Provision an AWS Direct Connect connection to a Region Provision a VPN connection as a backup if the primary Direct Connect connection fails.
B. Provision a VPN tunnel connection to a Region for private connectivit
C. Provision a second VPN tunnel for private connectivity and as a backup if the primary VPN connection fails.
D. Provision an AWS Direct Connect connection to a Region Provision a second Direct Connect connection to the same Region as a backup if the primary Direct Connect connection fails.
E. Provision an AWS Direct Connect connection to a Region Use the Direct Connect failover attribute from the AWS CLI to automatically create a backup connection if the primary Direct Connect connection fails.

**Answer:** A

## NEW QUESTION 154

A company has a business system that generates hundreds of reports each day. The business system saves the reports to a network share in CSV format The company needs to store this data in the AWS Cloud in near-real time for analysis. Which solution will meet these requirements with the LEAST administrative overhead?

A. Use AWS DataSync to transfer the files to Amazon S3 Create a scheduled task that runs at the end of each day.
B. Create an Amazon S3 File Gateway Update the business system to use a new network share from the S3 File Gateway.
C. Use AWS DataSync to transfer the files to Amazon S3 Create an application that uses the DataSync API in the automation workflow.
D. Deploy an AWS Transfer for SFTP endpoint Create a script that checks for new files on the network share and uploads the new files by using SFTP.

**Answer:** B

## NEW QUESTION 155

A company needs to ingested and handle large amounts of streaming data that its application generates. The application runs on Amazon EC2 instances and sends data to Amazon Kinesis Data Streams. which is contained wild default settings. Every other day the application consumes the data and writes the data to an Amazon S3 bucket for business intelligence (BI) processing the company observes that Amazon S3 is not receiving all the data that trio application sends to Kinesis Data Streams.
What should a solutions architect do to resolve this issue?

A. Update the Kinesis Data Streams default settings by modifying the data retention period.
B. Update the application to use the Kinesis Producer Library (KPL) lo send the data to Kinesis Data Streams.
C. Update the number of Kinesis shards lo handle the throughput of me data that is sent to Kinesis Data Streams.
D. Turn on S3 Versioning within the S3 bucket to preserve every version of every object that is ingested in the S3 bucket.

**Answer:** A

## NEW QUESTION 160

A company is running several business applications in three separate VPCs within me us-east-1 Region. The applications must be able to communicate between VPCs. The applications also must be able to consistently send hundreds to gigabytes of data each day to a latency-sensitive application that runs in a single on-premises data center.
A solutions architect needs to design a network connectivity solution that maximizes cost-effectiveness Which solution moots those requirements?

A. Configure three AWS Site-to-Site VPN connections from the data center to AWS Establish connectivity by configuring one VPN connection for each VPC
B. Launch a third-party virtual network appliance in each VPC Establish an iPsec VPN tunnel between the Data center and each virtual appliance
C. Set up three AWS Direct Connect connections from the data center to a Direct Connect gateway inus-east-1 Establish connectivity by configuring each VPC to use one of the Direct Connect connections
D. Set up one AWS Direct Connect connection from the data center to AW
E. Create a transit gateway, and attach each VPC to the transit gatewa
F. Establish connectivity between the Direct Connect connection and the transit gateway.

**Answer:** C

## NEW QUESTION 161

A company has enabled AWS CloudTrail logs to deliver log files to an Amazon S3 bucket for each of its developer accounts. The company has created a central AWS account for streamlining management and audit reviews An internal auditor needs to access the CloudTrail logs yet access needs to be restricted for all developer account users The solution must be secure and optimized
How should a solutions architect meet these requirements?

A. Configure an AWS Lambda function m each developer account to copy the log files to the central account Create an IAM role in the central account for the auditor Attach an IAM policy providing read-only permissions to the bucket
B. Configure CloudTrail from each developer account to deliver the log files to an S3 bucket m the central account Create an IAM user in the central account for the auditor Attach an IAM policy providing full permissions to the bucket
C. Configure CloudTrail from each developer account to deliver the log files to an S3 bucket in the central account Create an IAM role in the central account for the auditor Attach an IAM policy providingread-only permissions to the bucket
D. Configure an AWS Lambda function in the central account to copy the log files from the S3 bucket m each developer account Create an IAM user m the central account for the auditor Attach an IAM policy providing full permissions to the bucket

**Answer:** C

**Explanation:**
https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-sharing-logs.html

**NEW QUESTION 163**
A company hosts an application on AWS. The application uses AWS Lambda functions and stores data in Amazon DynamoDB tables. The Lambda functions are connected to a VPC that does not have internet access.
The traffic to access DynamoDB must not travel across the internet. The application must have write access to only specific DynamoDB tables.
Which combination of steps should a solutions architect take to meet these requirements? (Select TWO.)

A. Attach a VPC endpoint policy for DynamoDB to allow write access to only the specific DynamoDB tables.
B. Attach a security group to the interface VPC endpoint to allow write access to only the specific DynamoDB tables.
C. Create a resource-based 1AM policy to grant write access to only the specific DynamoDB table
D. Attach the policy to the DynamoDB tables.
E. Create a gateway VPC endpoint for DynamoDB that is associated with the Lambda VP
F. Ensure that the Lambda execution role can access the gateway VPC endpoint.
G. Create an interface VPC endpoint for DynamoDB that is associated with the Lambda VP
H. Ensure that the Lambda execution role can access the interface VPC endpoint.

**Answer:** AD

**NEW QUESTION 164**
A company has developed a new content-sharing application that runs on Amazon Elastic Container Service (Amazon ECS). The application runs on Amazon Linux Docker tasks that use the Amazon EC2 launch type. The application requires a storage solution that has the following characteristics:
• Accessibility (or multiple ECS tasks through bind mounts
• Resiliency across Availability Zones
• Burstable throughput of up to 3 Gbps
• Ability to be scaled up over time
Which storage solution meets these requirements?

A. Launch an Amazon FSx for Windows File Server Multi-AZ instanc
B. Configure the ECS task definitions to mount the Amazon FSx instance volume at launch.
C. Launch an Amazon Elastic File System (Amazon EFS) instanc
D. Configure the ECS task definitions to mount the EFS Instance volume at launch.
E. Create a Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volume with Multi-Attach set to enable
F. Attach the EBS volume to the ECS EC2 instance Configure ECS task definitions to mount the EBS instance volume at launch.
G. Launch an EC2 instance with several Provisioned IOPS SSD (k>2) Amazon Elastic Block Store (Amazon EBS) volumes attached m a RAID 0 configuratio
H. Configure the EC2 instance as an NFS storage serve
I. Configure ECS task definitions to mount the volumes at launch.

**Answer:** B

**NEW QUESTION 169**
A company has chosen to rehost its application on Amazon EC2 instances The application occasionally experiences errors that affect parts of its functionality The company was unaware of this issue until users reported the errors The company wants to address this problem during the migration and reduce the time it takes to detect issues with the application Log files for the application are stored on the local disk.
A solutions architect needs to design a solution that will alert staff if there are errors in the application after the application is migrated to AWS. The solution must not require additional changes to the application code.
What is the MOST operationally efficient solution that meets these requirements?

A. Configure the application to generate custom metrics tor the errors Send these metric data points to Amazo
B. CloudWatch by using the PutMetricData API call Create a CloudWatch alarm that is based on the custom metrics
C. Create an hourly cron job on the instances to copy the application log data to an Amazon S3 bucket Configure an AWS Lambda function to scan the log file and publish a message to an Amazon Simple Notification Service (Amazon SNS) topic to alert staff rf errors are detected.
D. Install the Amazon CloudWatch agent on the instances Configure the CloudWatch agent to stream the application log file to Amazon CloudWatch Logs Run a CloudWatch Logs insights query to search lor the relevant pattern in the log file Create a CloudWatch alarm that is based on the query output
E. Install the Amazon CloudWatch agent on the instances Configure the CloudWatch agent to stream the application log file to Amazon CloudWatch Log
F. Create a metric fitter for the relevant log grou
G. Define the filter pattern that is required to determine that there are errors in the application Create a CloudWatch alarm that is based on the resulting metric.

**Answer:** B

**NEW QUESTION 170**
A company is launching a new application and will display application metrics on an Amazon CloudWatch dashboard. The company's product manager needs to access this dashboard periodically. The product manager does not have an AWS account. A solution architect must provide access to the product manager by following the principle of least privilege.
Which solution will meet these requirements?

A. Share the dashboard from the CloudWatch consol
B. Enter the product manager's email address, and complete the sharing step
C. Provide a shareable link for the dashboard to the product manager.
D. Create an IAM user specifically for the product manage
E. Attach the CloudWatch Read Only Access managed policy to the use
F. Share the new login credential with the product manage
G. Share the browser URL of the correct dashboard with the product manager.
H. Create an IAM user for the company's employees, Attach the View Only Access AWS managed policy to the IAM use
I. Share the new login credentials with the product manage
J. Ask the product manager to navigate to the CloudWatch console and locate the dashboard by name in the Dashboards section.

K. Deploy a bastion server in a public subne
L. When the product manager requires access to the dashboard, start the server and share the RDP credential
M. On the bastion server, ensure that the browser is configured to open the dashboard URL with cached AWS credentials that have appropriate permissions to view the dashboard.

**Answer:** A


**NEW QUESTION 174**
A company wants to build a data lake on AWS from data that is stored in an onpremises Oracle relational database. The data lake must receive ongoing updates from the on-premises database.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS DataSync to transfer the data to Amazon S3. Use AWS Glue to transform the data and integrate the data into a data lake.
B. Use AWS Snowball to transfer the data to Amazon S3. Use AWS Batch to transform the data and integrate the data into a data lake.
C. Use AWS Database Migration Service (AWS DMS) to transfer the data to Amazon S3 Use AWS Glue to transform the data and integrate the data into a data lake.
D. Use an Amazon EC2 instance to transfer the data to Amazon S3. Configure the EC2 instance to transform the data and integrate the data into a data lake.

**Answer:** C


**NEW QUESTION 179**
A company's application integrates with multiple software-as-a-service (SaaS) sources for data collection. The company runs Amazon EC2 instances to receive the data and to upload the data to an Amazon S3 bucket for analysis. The same EC2 instance that receives and uploads the data also sends a notification to the user when an upload is complete. The company has noticed slow application performance and wants to improve the performance as much as possible.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an Auto Scaling group so that EC2 instances can scale ou
B. Configure an S3 event notification to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.
C. Create an Amazon AppFlow flow to transfer data between each SaaS source and the S3 bucket.Configure an S3 event notification to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.
D. Create an Amazon EventBridge (Amazon CloudWatch Events) rule for each SaaS source to send output dat
E. Configure the S3 bucket as the rule's targe
F. Create a second EventBridge (CloudWatch Events) rule to send events when the upload to the S3 bucket is complet
G. Configure an Amazon Simple Notification Service (Amazon SNS) topic as the second rule's target.
H. Create a Docker container to use instead of an EC2 instanc
I. Host the containerized application on Amazon Elastic Container Service (Amazon ECS). Configure Amazon CloudWatch Container Insights to send events to an Amazon Simple Notification Service (Amazon SNS) topic when the upload to the S3 bucket is complete.

**Answer:** D


**NEW QUESTION 184**
An online photo application lets users upload photos and perform image editing operations The application offers two classes of service free and paid Photos submitted by paid users are processed before those submitted by free users Photos are uploaded to Amazon S3 and the job information is sent to Amazon SQS.
Which configuration should a solutions architect recommend?

A. Use one SQS FIFO queue Assign a higher priority to the paid photos so they are processed first
B. Use two SQS FIFO queues: one for paid and one for free Set the free queue to use short polling and the paid queue to use long polling
C. Use two SQS standard queues one for paid and one for free Configure Amazon EC2 instances to prioritize polling for the paid queue over the free queue.
D. Use one SQS standard queu
E. Set the visibility timeout of the paid photos to zero Configure Amazon EC2 instances to prioritize visibility settings so paid photos are processed first

**Answer:** C

**Explanation:**
https://acloud.guru/forums/guru-of-the-week/discussion/-L7Be8rOao3InQxdQcXj/ https://aws.amazon.com/sqs/features/
Priority: Use separate queues to provide prioritization of work. https://aws.amazon.com/sqs/features/
https://aws.amazon.com/sqs/features/#:~:text=Priority%3A%20Use%20separate%20queues%20to%20provide%
https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-short-and-long-polling.


**NEW QUESTION 188**
A company runs us 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 D8 instance The EC2 instances and the ROS 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? (Select TWO.)

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

**Answer:** AE


**NEW QUESTION 191**
A company wants to migrate its on-premises application to AWS. The application produces output files that vary in size from tens of gigabytes to hundreds of terabytes The application data must be stored in a standard file system structure The company wants a solution that scales automatically, is highly available, and

requires minimum operational overhead.
Which solution will meet these requirements?

A. Migrate the application to run as containers on Amazon Elastic Container Service (Amazon ECS) Use Amazon S3 for storage
B. Migrate the application to run as containers on Amazon Elastic Kubernetes Service (Amazon EKS) Use Amazon Elastic Block Store (Amazon EBS) for storage
C. Migrate the application to Amazon EC2 instances in a Multi-AZ Auto Scaling grou
D. Use Amazon Elastic File System (Amazon EFS) for storage.
E. Migrate the application to Amazon EC2 instances in a Multi-AZ Auto Scaling grou
F. Use Amazon Elastic Block Store (Amazon EBS) for storage.

**Answer:** C


**NEW QUESTION 192**
A company wants to run applications in container in the AWS Cloud. Those applications arc stateless and can tolerate disruptions. What should a solutions architect do to meet those requirements?
What should a solution architect do to meet these requirements?

A. Use Spot Instances in an Amazon EC2 Auto Scaling group to run the application containers
B. Use Spot Instances in an Amazon Elastic Kubernetes Service (Amazon EKS) managed node group
C. Use On-Demand Instances in an Amazon EC2 Auto Scaling group to run the application containers
D. Use On-Demand Instances in an Amazon Elastic Kubernetes Service (Amazon EKS) managed node group.

**Answer:** A


**NEW QUESTION 193**
A company that primarily runs its application servers on premises has decided to migrate to AWS. The company wants to minimize its need to scale its Internet Small Computer Systems Interface (iSCSI) storage on premises. The company wants only its recently accessed data to remain stored locally.
Which AWS solution should the company use to meet these requirements?

A. Amazon S3 File Gateway
B. AWS Storage Gateway Tape Gateway
C. AWS Storage Gateway Volume Gateway stored volumes
D. AWS Storage Gateway Volume Gateway cachea volumes

**Answer:** D


**NEW QUESTION 196**
A new employee has joined a company as a deployment engineer. The deployment engineer will be using AWS CloudFormation templates to create multiple AWS resources. A solutions architect wants the deployment engineer to perform job activities while following the principle of least privilege.
Which steps should the solutions architect do in conjunction to reach this goal? (Select two.)

A. Have the deployment engineer use AWS account roof user credentials for performing AWS CloudFormation stack operations.
B. Create a new IAM user for the deployment engineer and add the IAM user to a group that has thePowerUsers IAM policy attached.
C. Create a new IAM user for the deployment engineer and add the IAM user to a group that has the Administrate/Access IAM policy attached.
D. Create a new IAM User for the deployment engineer and add the IAM user to a group that has an IAM policy that allows AWS CloudFormation actions only.
E. Create an IAM role for the deployment engineer to explicitly define the permissions specific to the AWS CloudFormation stack and launch stacks using Dial IAM role.

**Answer:** DE

**Explanation:**
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles.html https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html


**NEW QUESTION 200**
An online retail company has more than 50 million active customers and receives more than 25,000 orders each day. The company collects purchase data for customers and stores this data in Amazon S3. Additional customer data is stored in Amazon RDS.
The company wants to make all the data available to various teams so that the teams can perform analytics. The solution must provide the ability to manage fine-grained permissions for the data and must minimize operational overhead.
Which solution will meet these requirements?

A. Migrate the purchase data to write directly to Amazon RD
B. Use RDS access controls to limit access.
C. Schedule an AWS Lambda function to periodically copy data from Amazon RDS to Amazon S3. Create an AWS Glue crawle
D. Use Amazon Athena to query the dat
E. Use S3 policies to limit access.
F. Create a data lake by using AWS Lake Formatio
G. Create an AWS Glue JOBC connection to Amazon RD
H. Register the S3 bucket in Lake Formatio
I. Use Lake
J. Formation access controls to limit acces
K. Create an Amazon Redshift cluster Schedule an AWS Lambda function to periodically copy data from Amazon S3 and Amazon RDS to Amazon Redshif
L. Use Amazon Redshift access controls to limit access.

**Answer:** C


**NEW QUESTION 201**
A company has an application that processes customer of tiers. The company hosts the application on an Amazon EC2 instance that saves the orders to an Amazon Aurora database. Occasionally when traffic Is high, the workload does not process orders fast enough.

What should a solutions architect do to write the orders reliably to the database as quickly as possible?

A. Increase the instance size of the EC2 instance when baffle Is hig
B. Write orders to Amazon Simple Notification Service (Amazon SNS) Subscribe the database endpoint to the SNS topic
C. Write orders to an Amazon Simple Queue Service (Amazon SOS) queue Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read born the SQS queue and process orders into the database
D. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topi
E. Use EC2 ^stances in an Auto Scaling group behind an Application Load Balancer to read from the SNS topic.
F. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue when the EC2 instance reaches CPU threshold limit
G. Use scheduled scaling of EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database

**Answer:** B

## NEW QUESTION 205

A company maintains a searchable repository of items on its website. The data is stored in an Amazon RDS for MySQL database table that contains more than 10 million rows The database has 2 TB of General Purpose SSD storage There are millions of updates against this data every day through the company's website The company has noticed that some insert operations are taking 10 seconds or longer The company has determined that the database storage performance is the problem
Which solution addresses this performance issue?

A. Change the storage type to Provisioned IOPS SSD
B. Change the DB instance to a memory optimized instance class
C. Change the DB instance to a burstable performance instance class
D. Enable Multi-AZ RDS read replicas with MySQL native asynchronous replication.

**Answer:** A

**Explanation:**
https://aws.amazon.com/ebs/features/
"Provisioned IOPS volumes are backed by solid-state drives (SSDs) and are the highest performance EBS volumes designed for your critical, I/O intensive database applications. These volumes are ideal for both IOPS-intensive and throughput-intensive workloads that require extremely low latency."

## NEW QUESTION 206

A company's application is running on Amazon EC2 instances within an Auto Scaling group behind an Elastic Load Balancer Based on the application's history the company anticipates a spike m traffic during a holiday each year A solutions architect must design a strategy to ensure that the Auto Scaling group proactively increases capacity to minimize any performance impact on application users.
Which solution will meet these requirements?

A. Create an Amazon CloudWatch alarm to scale up the EC2 instances when CPU utilization exceeds 90%.
B. Create a recurring scheduled action to scale up the Auto Scaling group before the expected period of peak demand.
C. increase the minimum and maximum number of EC2 instances in the Auto Scaling group during the peak demand period
D. Configure an Amazon Simple Notification Service (Amazon SNS) notification to send alerts when there are autoscaling EC2_INSTANCE_LAUNCH events

**Answer:** B

## NEW QUESTION 207

A company has an application with a REST-based interface that allows data to be received in near-real time from a third-party vendor Once received the application processes and stores the data for further analysis. The application is running on Amazon EC2 instances.
The third-party vendor has received many 503 Service Unavailable Errors when sending data to the application When the data volume spikes, the compute capacity reaches its maximum limit and the application is unable to process all requests.
Which design should a solutions architect recommend to provide a more scalable solution?

A. Use Amazon Kinesis Data Streams to ingest the data Process the data using AWS Lambda function.
B. Use Amazon API Gateway on top of the existing applicatio
C. Create a usage plan with a quota limit for the third-party vendor
D. Use Amazon Simple Notification Service (Amazon SNS) to ingest the data Put the EC2 instances in an Auto Scaling group behind an Application Load Balancer
E. Repackage the application as a container Deploy the application using Amazon Elastic Container Service (Amazon ECS) using the EC2 launch type with an Auto Scaling group

**Answer:** A

## NEW QUESTION 211

The DNS provider that hosts a company's domain name records is experiencing outages that cause service disruption for a website running on AWS The company needs to migrate to a more resilient managed DNS service and wants the service to run on AWS.
What should a solutions architect do to rapidly migrate the DNS hosting service?

A. Create an Amazon Route 53 public hosted zone for the domain nam
B. Import the zone file containing the domain records hosted by the previous provider.
C. Create an Amazon Route 53 private hosted zone for the domain name Import the zone file containing the domain records hosted by the previous provider
D. Create a Simple AD directory in AW
E. Enable zone transfer between the DNS provider and AWS Directory Service for Microsoft Active Directory for the domain records.
F. Create an Amazon Route 53 Resolver inbound endpoint in the VPC Specify the IP addresses that the provider's DNS will forward DNS queries to Configure the provider's DNS to forward DNS queries for the domain to the IP addresses that are specified in the inbound endpoint.

**Answer:** B

## NEW QUESTION 213

A company needs to retain application logs files for a critical application for 10 years. The application team regularly accesses logs from the past month for troubleshooting, but logs older than 1 month are rarely accessed. The application generates more than 10 TB of logs per month.
Which storage option meets these requirements MOST cost-effectively?

A. Store the logs in Amazon S3 Use AWS Backup lo move logs more than 1 month old to S3 Glacier Deep Archive
B. Store the logs in Amazon S3 Use S3 Lifecycle policies to move logs more than 1 month old to S3 Glacier Deep Archive
C. Store the logs in Amazon CloudWatch Logs Use AWS Backup to move logs more then 1 month old to S3 Glacier Deep Archive
D. Store the logs in Amazon CloudWatch Logs Use Amazon S3 Lifecycle policies to move logs more than 1 month old to S3 Glacier Deep Archive

**Answer:** B


**NEW QUESTION 218**
A company has deployed a server less application that invokes an AWS Lambda function when new documents are uploaded to an Amazon S3 bucket The application uses the Lambda function to process the documents After a recent marketing campaign the company noticed that the application did not process many of The documents
What should a solutions architect do to improve the architecture of this application?

A. Set the Lambda function's runtime timeout value to 15 minutes
B. Configure an S3 bucket replication policy Stage the documents m the S3 bucket for later processing
C. Deploy an additional Lambda function Load balance the processing of the documents across the two Lambda functions
D. Create an Amazon Simple Queue Service (Amazon SOS) queue Send the requests to the queue Configure the queue as an event source for Lambda.

**Answer:** B


**NEW QUESTION 222**
A company has two VPCs named Management and Production The Management VPC uses VPNs through a customer gateway to connect to a single device in the data center. The Production VPC uses a virtual private gateway with two attached AWS Direct Connect connections The Management and Production VPCs both use a single VPC peering connection to allow communication between the applications.
What should a solutions architect do to mitigate any single point of failure in this architecture?

A. Add a set of VPNs between the Management and Production VPCs
B. Add a second virtual private gateway and attach it to the Management VPC.
C. Add a second set of VPNs to the Management VPC from a second customer gateway device
D. Add a second VPC peering connection between the Management VPC and the Production VPC.

**Answer:** C

**Explanation:**
https://docs.aws.amazon.com/vpn/latest/s2svpn/images/Multiple_Gateways_diagram.png
"To protect against a loss of connectivity in case your customer gateway device becomes unavailable, you can set up a second Site-to-Site VPN connection to your VPC and virtual private gateway by using a second customer gateway device." https://docs.aws.amazon.com/vpn/latest/s2svpn/vpn-redundant-connection.html


**NEW QUESTION 225**
A global company hosts its web application on Amazon EC2 instances behind an Application Load Balancer (ALB). The web application has static data and dynamic data. The company stores its static data in an Amazon S3 bucket. The company wants to improve performance and reduce latency for the static data and dynamic data. The company is using its own domain name registered with Amazon Route 53.
What should a solutions architect do to meet these requirements?

A. Create an Amazon CloudFront distribution that has the S3 bucket and the ALB as origins Configure Route 53 to route traffic to the CloudFront distribution.
B. Create an Amazon CloudFront distribution that has the ALB as an origin Create an AWS Global Accelerator standard accelerator that has the S3 bucket as an endpoin
C. Configure Route 53 to route traffic to the CloudFront distribution.
D. Create an Amazon CloudFront distribution that has the S3 bucket as an origin Create an AWS Global Accelerator standard accelerator that has the ALB and the CloudFront distribution as endpoints Create a custom domain name that points to the accelerator DNS name Use the custom domain name as an endpoint for the web application.
E. Create an Amazon CloudFront distribution that has the ALB as an origin
F. Create an AWS Global Accelerator standard accelerator that has the S3 bucket as an endpoint Create two domain name
G. Point one domain name to the CloudFront DNS name for dynamic content, Point the other domain name to the accelerator DNS name for static content Use the domain names as endpoints for the web application.

**Answer:** D


**NEW QUESTION 228**
A company hosts its web applications in the AWS Cloud. The company configures Elastic Load Balancers to use certificate 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 m 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 day
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 to day
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 rectification Service (Amazon SNS)
F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to detect any certificates that will expire within 30 day
G. Configure the rule to invoke an AWS Lambda functio
H. Configure the Lambda function to send a custom alert by way of Amazon Simple Notification Service (Amazon SNS).

**Answer:** B


**NEW QUESTION 230**
A company uses NFS to store large video files in on-premises network attached storage. Each video file ranges in size from 1MB to 500 GB. The total storage is 70 TB and is no longer growing. The company decides to migrate the video files to Amazon S3. The company must migrate the video files as soon as possible while using the least possible network bandwidth.
Which solution will meet these requirements?

A. Create an S3 bucket Create an 1AM role that has permissions to write to the S3 bucke
B. Use the AWS CLI to copy all files locally to the S3 bucket.
C. Create an AWS Snowball Edge jo
D. Receive a Snowball Edge device on premise
E. Use the Snowball Edge client to transfer data to the devic
F. Return the device so that AWS can import the data intoAmazon S3.
G. Deploy an S3 File Gateway on premise
H. Create a public service endpoint to connect to the S3 File Gateway Create an S3 bucket Create a new NFS file share on the S3 File Gateway Point the new file share to the S3 bucke
I. Transfer the data from the existing NFS file share to the S3 File Gateway.
J. Set up an AWS Direct Connect connection between the on-premises network and AW
K. Deploy an S3 File Gateway on premise
L. Create a public virtual interlace (VIF) to connect to the S3 File Gatewa
M. Create an S3 bucke
N. Create a new NFS file share on the S3 File Gatewa
O. Point the new file share to the S3 bucke
P. Transfer the data from the existing NFS file share to the S3 File Gateway.

**Answer:** C


**NEW QUESTION 234**
A company runs a photo processing application mat 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 lees 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 238**
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 241**
A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket The app retrieves these video clips directly from the S3 bucket. However the videos are large in their raw format.
Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead
Which combination of solutions will meet these requirements? (Select TWO.)

A. Deploy Amazon CloudFront for content delivery and caching
B. Use AWS DataSync to replicate the video files across AWS Regions in other S3 buckets
C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats
D. Deploy an Auto Scaling group of Amazon EC2 instances in Local Zones for content delivery and caching
E. Deploy an Auto Scaling group of Amazon EC2 instances to convert the video files to more appropriate formats

**Answer:** CD


**NEW QUESTION 246**
A company hosts an application on AWS Lambda functions mat are invoked by an Amazon API Gateway API The Lambda functions save customer data to an Amazon Aurora MySQL database Whenever the company upgrades the database, the Lambda functions fail to establish database connections until the upgrade is complete The result is that customer data Is not recorded for some of the event
A solutions architect needs to design a solution that stores customer data that is created during database upgrades

Which solution will meet these requirements?

A. Provision an Amazon RDS proxy to sit between the Lambda functions and the database Configure the Lambda functions to connect to the RDS proxy
B. Increase the run time of me Lambda functions to the maximum Create a retry mechanism in the code that stores the customer data in the database
C. Persist the customer data to Lambda local storag
D. Configure new Lambda functions to scan the local storage to save the customer data to the database.
E. Store the customer data m an Amazon Simple Queue Service (Amazon SOS) FIFO queue Create a new Lambda function that polls the queue and stores the customer data in the database

**Answer:** C


**NEW QUESTION 251**
A solutions architect is using Amazon S3 to design the storage architecture of a new digital media application. The media files must be resilient to the loss of an Availability Zone Some files are accessed frequently while other files are rarely accessed in an unpredictable pattern. The solutions architect must minimize the costs of storing and retrieving the media files.
Which storage option meets these requirements?

A. S3 Standard
B. S3 Intelligent-Tiering
C. S3 Standard-Infrequent Access {S3 Standard-IA)
D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

**Answer:** B


**NEW QUESTION 255**
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 (or 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 balance
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 balance
F. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

**Answer:** C


**NEW QUESTION 260**
A solutions architect needs to design the architecture for an application that a vendor provides as a Docker container image. The container needs 50 GB of storage.
available for temporary files. The infrastructure must be serverless.
Which solution meets these requirements with the LEAST operational overhead?

A. Create an AWS Lambda function that uses the Docker container image with an Amazon S3 mounted volume that has more than 50 GB of space.
B. Create an AWS Lambda function that uses the Docker container image with an Amazon Elastic Block Store (Amazon EBS) volume that has more than 50 GB of space.
C. Create an Amazon Elastic Container Service (Amazon ECS) cluster that uses the AWS Fargate launch typ
D. Create a task definition for the container image with an Amazon Elastic File System (Amazon EFS) volum
E. Create a service with that task definition.
F. Create an Amazon Elastic Container Service (Amazon ECS) duster that uses the Amazon EC2 launch type with an Amazon Elastic Block Store (Amazon EBS) volume that has more than 50 GB of spac
G. Create a task definition for the container imag
H. Create a service with that task definition.

**Answer:** C


**NEW QUESTION 265**
A company wants to migrate a Windows-based application from on premises to the AWS Cloud. The application has three tiers, a business tier, and a database tier with Microsoft SQL Server. The company wants to use specific features of SQL Server such as native backups and Data Quality Services. The company also needs to share files for process between the tiers.
How should a solution architect design the architecture to meet these requirements?

A. Host all three on Amazon instance
B. Use Mmazon FSx File Gateway for file sharing between tiers.
C. Host all three on Amazon EC2 instance
D. Use Amazon FSx for Windows file sharing between the tiers.
E. Host the application tier and the business tier on Amazon EC2 instance
F. Host the database tier on Amazon RD
G. Use Amazon Elastic File system (Amazon EFS) for file sharing between the tiers.
H. Host the application tier and the business tier on Amazon EC2 instance
I. Host the database tier on Amazon RD
J. Use a Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volume for file sharing between the tiers.

**Answer:** B

**NEW QUESTION 269**
A company is deploying a new application lo Amazon Elastic Kubernetes Service (Amazon EKS) with an AWS Fargate duster 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 place
B. Register the volumes In a StorageClass object on an EKS cluster Use EBS Multi-Attach to share the data between containers
C. Create an Amazon Elastic File System (Amazon EFS) tile system Register the tile system in a StorageClass object on an EKS cluster Use the same file system for all containers
D. 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.
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 obied on an EKS duster Create an AWS Lambda function to synchronize the data between file systems

**Answer:** B

**NEW QUESTION 271**
A company stores confidential data in an Amazon Aurora PostgreSQL database in the ap-southeast-3 Region The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key The company was recently acquired and must securely share a backup of the database with the acquiring company's AWS account in ap-southeast-3.
What should a solutions architect do to meet these requirements?

A. Create a database snapshot Copy the snapshot to a new unencrypted snapshot Share the new snapshot with the acquiring company's AWS account
B. Create a database snapshot Add the acquiring company's AWS account to the KMS key policy Share the snapshot with the acquiring company's AWS account
C. Create a database snapshot that uses a different AWS managed KMS key Add the acquiring company's AWS account to the KMS key alia
D. Share the snapshot with the acquiring company's AWS account.
E. Create a database snapshot Download the database snapshot Upload the database snapshot to an Amazon S3 bucket Update the S3 bucket policy to allow access from the acquiring company's AWS account

**Answer:** A

**NEW QUESTION 274**
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