Amazon-Web-Services

Exam Questions SAA-C03

AWS Certified Solutions Architect - Associate (SAA-C03)

NEW QUESTION 1
- (Exam Topic 1)
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 jobs to be processed. The processor application is stateless. The solutions architect must ensure that the application is loosely coupled 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 2
- (Exam Topic 1)
A company is preparing to launch a public-facing web application in the AWS Cloud. The architecture consists of Amazon EC2 instances within a VPC behind an Elastic Load Balancer (ELB). A third-party service is used for the DNS. The company's solutions architect must recommend a solution to detect and protect against large-scale DDoS attacks.
Which solution meets these requirements?

A. Enable Amazon GuardDuty on the account.
B. Enable Amazon Inspector on the EC2 instances.
C. Enable AWS Shield and assign Amazon Route 53 to it.
D. Enable AWS Shield Advanced and assign the ELB to it.

Answer: D

Explanation:
https://aws.amazon.com/shield/faqs/

NEW QUESTION 3
- (Exam Topic 1)
A company collects temperature, humidity, and atmospheric pressure data in cities across multiple continents. The average volume of data collected per site each day is 500 GB. Each site has a high-speed internet connection. The company's weather forecasting applications are based in a single Region and analyze the data daily.
What is the FASTEST way to aggregate data from all of these global sites?

A. Enable Amazon S3 Transfer Acceleration on the destination bucke
B. Use multipart uploads to directly upload site data to the destination bucket.
C. Upload site data to an Amazon S3 bucket in the closest AWS Regio
D. Use S3 cross-Region replication to copy objects to the destination bucket.
E. Schedule AWS Snowball jobs daily to transfer data to the closest AWS Regio
F. Use S3 cross-Region replication to copy objects to the destination bucket.
G. Upload the data to an Amazon EC2 instance in the closest Regio
H. Store the data in an Amazon Elastic Block Store (Amazon EBS) volum
I. Once a day take an EBS snapshot and copy it to the centralized Regio
J. Restore the EBS volume in the centralized Region and run an analysis on the data daily.

Answer: A

Explanation:
You might want to use Transfer Acceleration on a bucket for various reasons, including the following: You have customers that upload to a centralized bucket from all over the world.
You transfer gigabytes to terabytes of data on a regular basis across continents.
You are unable to utilize all of your available bandwidth over the Internet when uploading to Amazon S3.
https://docs.aws.amazon.com/AmazonS3/latest/dev/transfer-acceleration.html https://aws.amazon.com/s3/transfer-acceleration/#:~:text=S3%20Transfer%20Acceleration%20(S3TA)%20redu "Amazon S3 Transfer Acceleration can speed up content transfers to and from Amazon S3 by as much as 50-500% for long-distance transfer of larger objects. Customers who have either web or mobile applications with widespread users or applications hosted far away from their S3 bucket can experience long and variable upload and download speeds over the Internet"
https://docs.aws.amazon.com/AmazonS3/latest/userguide/mpuoverview.html "Improved throughput - You can upload parts in parallel to improve throughput."

NEW QUESTION 4
- (Exam Topic 1)
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: B

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

NEW QUESTION 5
- (Exam Topic 1)
A company performs monthly maintenance on its AWS infrastructure. During these maintenance activities, the company needs to rotate the credentials tor its Amazon ROS tor MySQL databases across multiple AWS Regions
Which solution will meet these requirements with the LEAST operational overhead?

A. Store the credentials as secrets in AWS Secrets Manage
B. Use multi-Region secret replication for the required Regions Configure Secrets Manager to rotate the secrets on a schedule
C. Store the credentials as secrets in AWS Systems Manager by creating a secure string parameter Use multi-Region secret replication for the required Regions Configure Systems Manager to rotate the secrets on a schedule
D. Store the credentials in an Amazon S3 bucket that has server-side encryption (SSE) enabled Use Amazon EventBridge (Amazon CloudWatch Events) to invoke an AWS Lambda function to rotate the credentials
E. Encrypt the credentials as secrets by using AWS Key Management Service (AWS KMS) multi-Region customer managed keys Store the secrets in an Amazon DynamoDB global table Use an AWS Lambda function to retrieve the secrets from DynamoDB Use the RDS API to rotate the secrets.

Answer: A

Explanation:
https://aws.amazon.com/blogs/security/how-to-replicate-secrets-aws-secrets-manager-multiple-regions/

NEW QUESTION 6
- (Exam Topic 1)
A company is building an ecommerce web application on AWS. The application sends information about new orders to an Amazon API Gateway REST API to process. The company wants to ensure that orders are processed in the order that they are received.
Which solution will meet these requirements?

A. Use an API Gateway integration to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when the application receives an orde
B. Subscribe an AWS Lambda function to the topic to perform processing.
C. Use an API Gateway integration to send a message to an Amazon Simple Queue Service (Amazon SQS) FIFO queue when the application receives an orde
D. Configure the SQS FIFO queue to invoke an AWS Lambda function for processing.
E. Use an API Gateway authorizer to block any requests while the application processes an order.
F. Use an API Gateway integration to send a message to an Amazon Simple Queue Service (Amazon SQS) standard queue when the application receives an orde
G. Configure the SQS standard queue to invoke an AWS Lambda function for processing.

Answer: B

NEW QUESTION 7
- (Exam Topic 1)
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:
"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 8
- (Exam Topic 1)
A company is planning to use an Amazon DynamoDB table for data storage. The company is concerned about cost optimization. The table will not be used on most mornings. In the evenings, the read and write traffic will often be unpredictable. When traffic spikes occur, they will happen very quickly.
What should a solutions architect recommend?

A. Create a DynamoDB table in on-demand capacity mode.
B. Create a DynamoDB table with a global secondary index.
C. Create a DynamoDB table with provisioned capacity and auto scaling.
D. Create a DynamoDB table in provisioned capacity mode, and configure it as a global table.

Answer: A

NEW QUESTION 9
- (Exam Topic 1)
An application allows users at a company's headquarters to access product data. The product data is stored in an Amazon RDS MySQL DB instance. The operations team has isolated an application performance slowdown and wants to separate read traffic from write traffic. A solutions architect needs to optimize the application's performance quickly.
What should the solutions architect recommend?

A. Change the existing database to a Multi-AZ deploymen
B. Serve the read requests from the primary Availability Zone.
C. Change the existing database to a Multi-AZ deploymen
D. Serve the read requests from the secondary Availability Zone.
E. Create read replicas for the databas
F. Configure the read replicas with half of the compute and storage resources as the source database.
G. Create read replicas for the databas
H. Configure the read replicas with the same compute and storage resources as the source database.

Answer: D

Explanation:
https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_MySQL.Replication.ReadReplicas.html

NEW QUESTION 10
- (Exam Topic 1)
A company is implementing a shared storage solution for a media application that is hosted m the AWS Cloud The company needs the ability to use SMB clients to access data The solution must he fully managed.
Which AWS solution meets these requirements?

A. Create an AWS Storage Gateway volume gatewa
B. Create a file share that uses the required client protocol Connect the application server to the file share.
C. Create an AWS Storage Gateway tape gateway Configure (apes to use Amazon S3 Connect the application server lo the tape gateway
D. Create an Amazon EC2 Windows instance Install and configure a Windows file share role on the instanc
E. Connect the application server to the file share.
F. Create an Amazon FSx for Windows File Server tile system Attach the fie system to the origin server.Connect the application server to the file system

Answer: D

Explanation:
https://aws.amazon.com/fsx/lustre/
Amazon FSx has native support for Windows file system features and for the industry-standard Server Message Block (SMB) protocol to access file storage over a network. https://docs.aws.amazon.com/fsx/latest/WindowsGuide/what-is.html

NEW QUESTION 10
- (Exam Topic 1)
A company hosts its multi-tier applications on AWS. For compliance, governance, auditing, and security, the company must track configuration changes on its AWS resources and record a history of API calls made to these resources.
What should a solutions architect do to meet these requirements?

A. Use AWS CloudTrail to track configuration changes and AWS Config to record API calls
B. Use AWS Config to track configuration changes and AWS CloudTrail to record API calls
C. Use AWS Config to track configuration changes and Amazon CloudWatch to record API calls
D. Use AWS CloudTrail to track configuration changes and Amazon CloudWatch to record API calls

Answer: B

NEW QUESTION 15
- (Exam Topic 1)
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 18
- (Exam Topic 1)
A company recently launched Linux-based application instances on Amazon EC2 in a private subnet and launched a Linux-based bastion host on an Amazon EC2 instance in a public subnet of a VPC A solutions architect needs to connect from the on-premises network, through the company's internet connection to the bastion host and to the application servers The solutions architect must make sure that the security groups of all the EC2 instances will allow that access
Which combination of steps should the solutions architect take to meet these requirements? (Select TWO)

A. Replace the current security group of the bastion host with one that only allows inbound access from the application instances
B. Replace the current security group of the bastion host with one that only allows inbound access from the internal IP range for the company
C. Replace the current security group of the bastion host with one that only allows inbound access from the external IP range for the company
D. Replace the current security group of the application instances with one that allows inbound SSH access from only the private IP address of the bastion host
E. Replace the current security group of the application instances with one that allows inbound SSH access from only the public IP address of the bastion host

Answer: CD

Explanation:
https://digitalcloud.training/ssh-into-ec2-in-private-subnet/

NEW QUESTION 19
- (Exam Topic 1)
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 22
- (Exam Topic 1)
A company recently signed a contract with an AWS Managed Service Provider (MSP) Partner for help with an application migration initiative. A solutions architect needs to share an Amazon Machine Image (AMI) from an existing AWS account with the MSP Partner's AWS account. The AMI is backed by Amazon Elastic Block Store (Amazon EBS) and uses a customer managed customer master key (CMK) to encrypt EBS volume snapshots.
What is the MOST secure way for the solutions architect to share the AMI with the MSP Partner's AWS account?

A. Make the encrypted AMI and snapshots publicly availabl
B. Modify the CMK's key policy to allow the MSP Partner's AWS account to use the key
C. Modify the launchPermission property of the AM
D. Share the AMI with the MSP Partner's AWS account onl
E. Modify the CMK's key policy to allow the MSP Partner's AWS account to use the key.
F. Modify the launchPermission property of the AMI Share the AMI with the MSP Partner's AWS account onl
G. Modify the CMK's key policy to trust a new CMK that is owned by the MSP Partner for encryption.
H. Export the AMI from the source account to an Amazon S3 bucket in the MSP Partner's AWS account.Encrypt the S3 bucket with a CMK that is owned by the MSP Partner Copy and launch the AMI in the MSP Partner's AWS account.

Answer: B

Explanation:
Share the existing KMS key with the MSP external account because it has already been used to encrypt the AMI snapshot.
https://docs.aws.amazon.com/kms/latest/developerguide/key-policy-modifying-external-accounts.html

NEW QUESTION 26
- (Exam Topic 1)
A survey company has gathered data for several years from areas m\ the United States. The company hosts the data in an Amazon S3 bucket that is 3 TB m size and growing. The company has started to share the data with a European marketing firm that has S3 buckets The company wants to ensure that its data transfer costs remain as low as possible
Which solution will meet these requirements?

A. Configure the Requester Pays feature on the company's S3 bucket

B. Configure S3 Cross-Region Replication from the company's S3 bucket to one of the marketing firm's S3 buckets.
C. Configure cross-account access for the marketing firm so that the marketing firm has access to the company's S3 bucket.
D. Configure the company's S3 bucket to use S3 Intelligent-Tiering Sync the S3 bucket to one of the marketing firm's S3 buckets

Answer: A

Explanation:
"Typically, you configure buckets to be Requester Pays buckets when you want to share data but not incur charges associated with others accessing the data. For example, you might use Requester Pays buckets when making available large datasets, such as zip code directories, reference data, geospatial information, or web crawling data." https://docs.aws.amazon.com/AmazonS3/latest/userguide/RequesterPaysBuckets.html

NEW QUESTION 28
- (Exam Topic 1)
A company is running a popular social media website. The website gives users the ability to upload images to share with other users. The company wants to make sure that the images do not contain inappropriate content. The company needs a solution that minimizes development effort.
What should a solutions architect do to meet these requirements?

A. Use Amazon Comprehend to detect inappropriate conten
B. Use human review for low-confidence predictions.
C. Use Amazon Rekognition to detect inappropriate conten
D. Use human review for low-confidence predictions.
E. Use Amazon SageMaker to detect inappropriate conten
F. Use ground truth to label low-confidence predictions.
G. Use AWS Fargate to deploy a custom machine learning model to detect inappropriate conten
H. Use ground truth to label low-confidence predictions.

Answer: B

Explanation:
 https://docs.aws.amazon.com/rekognition/latest/dg/moderation.html?pg=ln&sec=ft https://docs.aws.amazon.com/rekognition/latest/dg/a2i-rekognition.html

NEW QUESTION 31
- (Exam Topic 1)
A company wants to improve its ability to clone large amounts of production data into a test environment in the same AWS Region. The data is stored in Amazon EC2 instances on Amazon Elastic Block Store (Amazon EBS) volumes. Modifications to the cloned data must not affect the production environment. The software that accesses this data requires consistently high I/O performance.
A solutions architect needs to minimize the time that is required to clone the production data into the test environment.
Which solution will meet these requirements?

A. Take EBS snapshots of the production EBS volume
B. Restore the snapshots onto EC2 instance store volumes in the test environment.
C. Configure the production EBS volumes to use the EBS Multi-Attach featur
D. Take EBS snapshots of the production EBS volume
E. Attach the production EBS volumes to the EC2 instances in the test environment.
F. Take EBS snapshots of the production EBS volume
G. Create and initialize new EBS volume
H. Attach the new EBS volumes to EC2 instances in the test environment before restoring the volumes from the production EBS snapshots.
I. Take EBS snapshots of the production EBS volume
J. Turn on the EBS fast snapshot restore feature on the EBS snapshot
K. Restore the snapshots into new EBS volume
L. Attach the new EBS volumes to EC2 instances in the test environment.

Answer: C

NEW QUESTION 35
- (Exam Topic 1)
A company wants to reduce the cost of its existing three-tier web architecture. The web, application, and database servers are running on Amazon EC2 instances for the development, test, and production environments. The EC2 instances average 30% CPU utilization during peak hours and 10% CPU utilization during non-peak hours.
The production EC2 instances run 24 hours a day. The development and test EC2 instances run for at least 8 hours each day. The company plans to implement automation to stop the development and test EC2 instances when they are not in use.
Which EC2 instance purchasing solution will meet the company's requirements MOST cost-effectively?

A. Use Spot Instances for the production EC2 instance
B. Use Reserved Instances for the development and test EC2 instances.
C. Use Reserved Instances for the production EC2 instance
D. Use On-Demand Instances for the development and test EC2 instances.
E. Use Spot blocks for the production EC2 instance
F. Use Reserved Instances for the development and test EC2 instances.
G. Use On-Demand Instances for the production EC2 instance
H. Use Spot blocks for the development and test EC2 instances.

Answer: B

NEW QUESTION 38
- (Exam Topic 1)
A company is designing an application where users upload small files into Amazon S3. After a user uploads a file, the file requires one-time simple processing to transform the data and save the data in JSON format for later analysis.
Each file must be processed as quickly as possible after it is uploaded. Demand will vary. On some days, users will upload a high number of files. On other days,

users will upload a few files or no files.
Which solution meets these requirements with the LEAST operational overhead?

A. Configure Amazon EMR to read text files from Amazon S3. Run processing scripts to transform the dat
B. Store the resulting JSON file in an Amazon Aurora DB cluster.
C. Configure Amazon S3 to send an event notification to an Amazon Simple Queue Service (Amazon SQS) queu
D. Use Amazon EC2 instances to read from the queue and process the dat
E. Store the resulting JSON file in Amazon DynamoDB.
F. Configure Amazon S3 to send an event notification to an Amazon Simple Queue Service (Amazon SQS) queu
G. Use an AWS Lambda function to read from the queue and process the dat
H. Store the resulting JSON file in Amazon DynamoD
I. Most Voted
J. Configure Amazon EventBridge (Amazon CloudWatch Events) to send an event to Amazon Kinesis Data Streams when a new file is upload
K. Use an AWS Lambda function to consume the event from the stream and process the dat
L. Store the resulting JSON file in Amazon Aurora DB cluster.

Answer: C

Explanation:
Amazon S3 sends event notifications about S3 buckets (for example, object created, object removed, or object restored) to an SNS topic in the same Region.
The SNS topic publishes the event to an SQS queue in the central Region.
The SQS queue is configured as the event source for your Lambda function and buffers the event messages for the Lambda function.
The Lambda function polls the SQS queue for messages and processes the Amazon S3 event notifications according to your application's requirements.
https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/subscribe-a-lambda-function-to-event-notific

NEW QUESTION 43
- (Exam Topic 1)
An ecommerce company wants to launch a one-deal-a-day website on AWS. Each day will feature exactly one product on sale for a period of 24 hours. The company wants to be able to handle millions of requests each hour with millisecond latency during peak hours.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon S3 to host the full website in different S3 buckets Add Amazon CloudFront distributions Set the S3 buckets as origins for the distributions Store the order data in Amazon S3
B. Deploy the full website on Amazon EC2 instances that run in Auto Scaling groups across multiple Availability Zones Add an Application Load Balancer (ALB) to distribute the website traffic Add another ALB for the backend APIs Store the data in Amazon RDS for MySQL
C. Migrate the full application to run in containers Host the containers on Amazon Elastic Kubernetes Service (Amazon EKS) Use the Kubernetes Cluster Autoscaler to increase and decrease the number of pods to process bursts in traffic Store the data in Amazon RDS for MySQL
D. Use an Amazon S3 bucket to host the website's static content Deploy an Amazon CloudFront distributio
E. Set the S3 bucket as the origin Use Amazon API Gateway and AWS Lambda functions for the backend APIs Store the data in Amazon DynamoDB

Answer: D

NEW QUESTION 48
- (Exam Topic 1)
A company's HTTP application is behind a Network Load Balancer (NLB). The NLB's target group is configured to use an Amazon EC2 Auto Scaling group with multiple EC2 instances that run the web service.
The company notices that the NLB is not detecting HTTP errors for the application. These errors require a manual restart of the EC2 instances that run the web service. The company needs to improve the application's availability without writing custom scripts or code.
What should a solutions architect do to meet these requirements?

A. Enable HTTP health checks on the NL
B. supplying the URL of the company's application.
C. Add a cron job to the EC2 instances to check the local application's logs once each minut
D. If HTTP errors are detected, the application will restart.
E. Replace the NLB with an Application Load Balance
F. Enable HTTP health checks by supplying the URL of the company's applicatio
G. Configure an Auto Scaling action to replace unhealthy instances.
H. Create an Amazon Cloud Watch alarm that monitors the UnhealthyHostCount metric for the NL
I. Configure an Auto Scaling action to replace unhealthy instances when the alarm is in the ALARM state.

Answer: C

NEW QUESTION 51
- (Exam Topic 1)
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: B

NEW QUESTION 53
- (Exam Topic 1)
A company's containerized application runs on an Amazon EC2 instance. The application needs to download security certificates before it can communicate with other business applications. The company wants a highly secure solution to encrypt and decrypt the certificates in near real time. The solution also needs to store data in highly available storage after the data is encrypted.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create AWS Secrets Manager secrets for encrypted certificate
B. Manually update the certificates as neede
C. Control access to the data by using fine-grained IAM access.
D. Create an AWS Lambda function that uses the Python cryptography library to receive and perform encryption operation
E. Store the function in an Amazon S3 bucket.
F. Create an AWS Key Management Service (AWS KMS) customer managed ke
G. Allow the EC2 role to use the KMS key for encryption operation
H. Store the encrypted data on Amazon S3.
I. Create an AWS Key Management Service (AWS KMS) customer managed ke
J. Allow the EC2 role to use the KMS key for encryption operation
K. Store the encrypted data on Amazon Elastic Block Store (Amazon EBS) volumes.

Answer: D

NEW QUESTION 57
- (Exam Topic 1)
A company has an application that ingests incoming messages. These messages are then quickly consumed by dozens of other applications and microservices.
The number of messages varies drastically and sometimes spikes as high as 100,000 each second. The
company wants to decouple the solution and increase scalability. Which solution meets these requirements?

A. Persist the messages to Amazon Kinesis Data Analytic
B. All the applications will read and process the messages.
C. Deploy the application on Amazon EC2 instances in an Auto Scaling group, which scales the number of EC2 instances based on CPU metrics.
D. Write the messages to Amazon Kinesis Data Streams with a single shar
E. All applications will read from the stream and process the messages.
F. Publish the messages to an Amazon Simple Notification Service (Amazon SNS) topic with one or more Amazon Simple Queue Service (Amazon SQS) subscription
G. All applications then process the messages from the queues.

Answer: D

Explanation:
https://aws.amazon.com/sqs/features/
By routing incoming requests to Amazon SQS, the company can decouple the job requests from the processing instances. This allows them to scale the number of instances based on the size of the queue, providing more resources when needed. Additionally, using an Auto Scaling group based on the queue size will automatically scale the number of instances up or down depending on the workload. Updating the software to read from the queue will allow it to process the job requests in a more efficient manner, improving the performance of the system.

NEW QUESTION 61
- (Exam Topic 1)
A solutions architect is designing a two-tier web application The application consists of a public-facing web tier hosted on Amazon EC2 in public subnets The database tier consists of Microsoft SQL Server running on Amazon EC2 in a private subnet Security is a high priority for the company
How should security groups be configured in this situation? (Select TWO)

A. Configure the security group for the web tier to allow inbound traffic on port 443 from 0.0.0.0/0.
B. Configure the security group for the web tier to allow outbound traffic on port 443 from 0.0.0.0/0.
C. Configure the security group for the database tier to allow inbound traffic on port 1433 from the securitygroup for the web tier.
D. Configure the security group for the database tier to allow outbound traffic on ports 443 and 1433 to the security group for the web tier.
E. Configure the security group for the database tier to allow inbound traffic on ports 443 and 1433 from the security group for the web tier.

Answer: AC

Explanation:
"Security groups create an outbound rule for every inbound rule." Not completely right. Statefull does NOT mean that if you create an inbound (or outbound) rule, it will create an outbound (or inbound) rule. What it does mean is: suppose you create an inbound rule on port 443 for the X ip. When a request enters on port 443 from X ip, it will allow traffic out for that request in the port 443. However, if you look at the outbound rules, there will not be any outbound rule on port 443 unless explicitly create it. In ACLs, which are stateless, you would have to create an inbound rule to allow incoming requests and an outbound rule to allow your application responds to those incoming requests.
https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html#SecurityGroupRules

NEW QUESTION 62
- (Exam Topic 1)
A company needs guaranteed Amazon EC2 capacity in three specific Availability Zones in a specific AWS Region for an upcoming event that will last 1 week.
What should the company do to guarantee the EC2 capacity?

A. Purchase Reserved instances that specify the Region needed

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

Answer: D

Explanation:
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-capacity-reservations.html
Reserve instances: You will have to pay for the whole term (1 year or 3years) which is not cost effective

NEW QUESTION 63
- (Exam Topic 1)
A company recently migrated to AWS and wants to implement a solution to protect the traffic that flows in and out of the production VPC. The company had an inspection server in its on-premises data center. The inspection server performed specific operations such as traffic flow inspection and traffic filtering. The company wants to have the same functionalities in the AWS Cloud.
Which solution will meet these requirements?

A. Use Amazon GuardDuty for traffic inspection and traffic filtering in the production VPC
B. Use Traffic Mirroring to mirror traffic from the production VPC for traffic inspection and filtering.
C. Use AWS Network Firewall to create the required rules for traffic inspection and traffic filtering for the production VPC.
D. Use AWS Firewall Manager to create the required rules for traffic inspection and traffic filtering for the production VPC.

Answer: C

Explanation:
AWS Network Firewall supports both inspection and filtering as required

NEW QUESTION 67
- (Exam Topic 1)
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

NEW QUESTION 69
- (Exam Topic 1)
A company's dynamic website is hosted using on-premises servers in the United States. The company is launching its product in Europe, and it wants to optimize site loading times for new European users. The site's backend must remain in the United States. The product is being launched in a few days, and an immediate solution is needed.
What should the solutions architect recommend?

A. Launch an Amazon EC2 instance in us-east-1 and migrate the site to it.
B. Move the website to Amazon S3. Use cross-Region replication between Regions.
C. Use Amazon CloudFront with a custom origin pointing to the on-premises servers.
D. Use an Amazon Route 53 geo-proximity routing policy pointing to on-premises servers.

Answer: C

Explanation:
https://aws.amazon.com/pt/blogs/aws/amazon-cloudfront-support-for-custom-origins/
You can now create a CloudFront distribution using a custom origin. Each distribution will can point to an S3 or to a custom origin. This could be another storage service, or it could be something more interesting and more dynamic, such as an EC2 instance or even an Elastic Load Balancer

NEW QUESTION 72
- (Exam Topic 1)
A solutions architect is developing a multiple-subnet VPC architecture. The solution will consist of six subnets in two Availability Zones. The subnets are defined as public, private and dedicated for databases. Only the Amazon EC2 instances running in the private subnets should be able to access a database.
Which solution meets these requirements?

A. Create a now route table that excludes the route to the public subnets' CIDR block
B. Associate the route table to the database subnets.
C. Create a security group that denies ingress from the security group used by instances in the public subnet
D. Attach the security group to an Amazon RDS DB instance.
E. Create a security group that allows ingress from the security group used by instances in the private subnet
F. Attach the security group to an Amazon RDS DB instance.
G. Create a new peering connection between the public subnets and the private subnet
H. Create a different peering connection between the private subnets and the database subnets.

Answer: C

Explanation:
Security groups are stateful. All inbound traffic is blocked by default. If you create an inbound rule allowing traffic in, that traffic is automatically allowed back out again. You cannot block specific IP address using Security groups (instead use Network Access Control Lists).

"You can specify allow rules, but not deny rules." "When you first create a security group, it has no inbound rules. Therefore, no inbound traffic originating from another host to your instance is allowed until you add inbound rules to the security group." Source: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html#VPCSecurityGroups

NEW QUESTION 74
- (Exam Topic 1)
A company is developing a two-tier web application on AWS. The company's developers have deployed the application on an Amazon EC2 instance that connects directly to a backend Amazon RDS database. The company must not hardcode database credentials in the application. The company must also implement a solution to automatically rotate the database credentials on a regular basis.
Which solution will meet these requirements with the LEAST operational overhead?

A. Store the database credentials in the instance metadat
B. Use Amazon EventBridge (Amazon CloudWatch Events) rules to run a scheduled AWS Lambda function that updates the RDS credentials and instance metadata at the same time.
C. Store the database credentials in a configuration file in an encrypted Amazon S3 bucke
D. Use Amazon EventBridge (Amazon CloudWatch Events) rules to run a scheduled AWS Lambda function that updates the RDS credentials and the credentials in the configuration file at the same tim
E. Use S3 Versioning to ensure the ability to fall back to previous values.
F. Store the database credentials as a secret in AWS Secrets Manage
G. Turn on automatic rotation for the secre
H. Attach the required permission to the EC2 role to grant access to the secret.
I. Store the database credentials as encrypted parameters in AWS Systems Manager Parameter Stor
J. Turn on automatic rotation for the encrypted parameter
K. Attach the required permission to the EC2 role to grant access to the encrypted parameters.

Answer: C

Explanation:
https://docs.aws.amazon.com/secretsmanager/latest/userguide/create_database_secret.html

NEW QUESTION 78
- (Exam Topic 1)
A company is hosting a static website on Amazon S3 and is using Amazon Route 53 for DNS. The website is experiencing increased demand from around the world. The company must decrease latency for users who access the website.
Which solution meets these requirements MOST cost-effectively?

A. Replicate the S3 bucket that contains the website to all AWS Region
B. Add Route 53 geolocation routing entries.
C. Provision accelerators in AWS Global Accelerato
D. Associate the supplied IP addresses with the S3 bucke
E. Edit the Route 53 entries to point to the IP addresses of the accelerators.
F. Add an Amazon CloudFront distribution in front of the S3 bucke
G. Edit the Route 53 entries to point to the CloudFront distribution.
H. Enable S3 Transfer Acceleration on the bucke
I. Edit the Route 53 entries to point to the new endpoint.

Answer: C

NEW QUESTION 79
- (Exam Topic 1)
A company wants to run its critical applications in containers to meet requirements tor scalability and availability The company prefers to focus on maintenance of the critical applications The company does not want to be responsible for provisioning and managing the underlying infrastructure that runs the containerized workload
What should a solutions architect do to meet those requirements?

A. Use Amazon EC2 Instances, and Install Docker on the Instances
B. Use Amazon Elastic Container Service (Amazon ECS) on Amazon EC2 worker nodes
C. Use Amazon Elastic Container Service (Amazon ECS) on AWS Fargate
D. Use Amazon EC2 instances from an Amazon Elastic Container Service (Amazon ECS)-op6mized Amazon Machine Image (AMI).

Answer: C

Explanation:
using AWS ECS on AWS Fargate since they requirements are for scalability and availability without having to provision and manage the underlying infrastructure to run the containerized workload. https://docs.aws.amazon.com/AmazonECS/latest/userguide/what-is-fargate.html

NEW QUESTION 80
- (Exam Topic 1)
A company needs the ability to analyze the log files of its proprietary application. The logs are stored in JSON format in an Amazon S3 bucket Queries will be simple and will run on-demand A solutions architect needs to perform the analysis with minimal changes to the existing architecture
What should the solutions architect do to meet these requirements with the LEAST amount of operational overhead?

A. Use Amazon Redshift to load all the content into one place and run the SQL queries as needed
B. Use Amazon CloudWatch Logs to store the logs Run SQL queries as needed from the Amazon CloudWatch console
C. Use Amazon Athena directly with Amazon S3 to run the queries as needed
D. Use AWS Glue to catalog the logs Use a transient Apache Spark cluster on Amazon EMR to run the SQL queries as needed

Answer: C

Explanation:
Amazon Athena can be used to query JSON in S3

NEW QUESTION 84
- (Exam Topic 1)
A development team runs monthly resource-intensive tests on its general purpose Amazon RDS for MySQL DB instance with Performance Insights enabled. The testing lasts for 48 hours once a month and is the only process that uses the database. The team wants to reduce the cost of running the tests without reducing the compute and memory attributes of the DB instance.
Which solution meets these requirements MOST cost-effectively?

A. Stop the DB instance when tests are complete
B. Restart the DB instance when required.
C. Use an Auto Scaling policy with the DB instance to automatically scale when tests are completed.
D. Create a snapshot when tests are complete
E. Terminate the DB instance and restore the snapshot when required.
F. Modify the DB instance to a low-capacity instance when tests are complete
G. Modify the DB instance again when required.

Answer: A

NEW QUESTION 86
- (Exam Topic 1)
A company runs multiple Windows workloads on AWS. The company's employees use Windows 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.
What should a solutions architect do to meet these requirements?

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: A

NEW QUESTION 91
- (Exam Topic 1)
A company runs an online marketplace web application on AWS. The application serves hundreds of thousands of users during peak hours. The company needs a scalable, near-real-time solution to share the details of millions of financial transactions with several other internal applications Transactions also need to be processed to remove sensitive data before being stored in a document database for low-latency retrieval.
What should a solutions architect recommend to meet these requirements?

A. Store the transactions data into Amazon DynamoDB Set up a rule in DynamoDB to remove sensitive data from every transaction upon write Use DynamoDB Streams to share the transactions data with other applications
B. Stream the transactions data into Amazon Kinesis Data Firehose to store data in Amazon DynamoDB and Amazon S3 Use AWS Lambda integration with Kinesis Data Firehose to remove sensitive dat
C. Other applications can consume the data stored in Amazon S3
D. Stream the transactions data into Amazon Kinesis Data Streams Use AWS Lambda integration to remove sensitive data from every transaction and then store the transactions data in Amazon DynamoDB Other applications can consume the transactions data off the Kinesis data stream.
E. Store the batched transactions data in Amazon S3 as file
F. Use AWS Lambda to process every file and remove sensitive data before updating the files in Amazon S3 The Lambda function then stores the data in Amazon DynamoDB Other applications can consume transaction files stored in Amazon S3.

Answer: C

Explanation:
The destination of your Kinesis Data Firehose delivery stream. Kinesis Data Firehose can send data records to various destinations, including Amazon Simple Storage Service (Amazon S3), Amazon Redshift, Amazon OpenSearch Service, and any HTTP endpoint that is owned by you or any of your third-party service providers. The following are the supported destinations:
* Amazon OpenSearch Service
* Amazon S3
* Datadog
* Dynatrace
* Honeycomb
* HTTP Endpoint
* Logic Monitor
* MongoDB Cloud
* New Relic
* Splunk
* Sumo Logic https://docs.aws.amazon.com/firehose/latest/dev/create-name.html https://aws.amazon.com/kinesis/data-streams/
Amazon Kinesis Data Streams (KDS) is a massively scalable and durable real-time data streaming service. KDS can continuously capture gigabytes of data per second from hundreds of thousands of sources such as website clickstreams, database event streams, financial transactions, social media feeds, IT logs, and location-tracking events.

NEW QUESTION 92
- (Exam Topic 1)
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

Explanation:
S3 Intelligent-Tiering - Perfect use case when you don't know the frequency of access or irregular patterns of usage.
Amazon S3 offers a range of storage classes designed for different use cases. These include S3 Standard for general-purpose storage of frequently accessed data; S3 Intelligent-Tiering for data with unknown or changing access patterns; S3 Standard-Infrequent Access (S3 Standard-IA) and S3 One Zone-Infrequent Access (S3 One Zone-IA) for long-lived, but less frequently accessed data; and Amazon S3 Glacier (S3 Glacier) and Amazon S3 Glacier Deep Archive (S3 Glacier Deep Archive) for long-term archive and digital preservation. If you have data residency requirements that can't be met by an existing AWS Region, you can use the S3 Outposts storage class to store your S3 data on-premises. Amazon S3 also offers capabilities to manage your data throughout its lifecycle. Once an S3 Lifecycle policy is set, your data will automatically transfer to a different storage class without any changes to your application.
https://aws.amazon.com/getting-started/hands-on/getting-started-using-amazon-s3-intelligent-tiering/?nc1=h_ls

NEW QUESTION 93
- (Exam Topic 1)
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

Explanation:
Amazon AppFlow is a fully managed integration service that enables you to securely transfer data between Software-as-a-Service (SaaS) applications like Salesforce, SAP, Zendesk, Slack, and ServiceNow, and AWS services like Amazon S3 and Amazon Redshift, in just a few clicks.
https://aws.amazon.com/appflow/

NEW QUESTION 95
- (Exam Topic 1)
A company uses 50 TB of data for reporting. The company wants to move this data from on premises to AWS A custom application in the company's data center runs a weekly data transformation job. The company plans to pause the application until the data transfer is complete and needs to begin the transfer process as soon as possible.
The data center does not have any available network bandwidth for additional workloads A solutions architect must transfer the data and must configure the transformation job to continue to run in the AWS Cloud
Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS DataSync to move the data Create a custom transformation job by using AWS Glue
B. Order an AWS Snowcone device to move the data Deploy the transformation application to the device
C. Order an AWS Snowball Edge Storage Optimized devic
D. Copy the data to the devic
E. Create a custom transformation job by using AWS Glue
F. Order an AWS
G. Snowball Edge Storage Optimized device that includes Amazon EC2 compute Copy the data to the device Create a new EC2 instance on AWS to run the transformation application

Answer: C

NEW QUESTION 96
- (Exam Topic 1)
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 S3bucke
H. Set an S3 Lifecycle configuration for the S3 bucket.

Answer: C

NEW QUESTION 98
- (Exam Topic 1)
A company has an application that provides marketing services to stores. The services are based on previous purchases by store customers. The stores upload transaction data to the company through SFTP, and the data is processed and analyzed to generate new marketing offers. Some of the files can exceed 200 GB in size.
Recently, the company discovered that some of the stores have uploaded files that contain personally identifiable information (PII) that should not have been included. The company wants administrators to be alerted if PII is shared again. The company also wants to automate remediation.
What should a solutions architect do to meet these requirements with the LEAST development effort?

A. Use an Amazon S3 bucket as a secure transfer poin
B. Use Amazon Inspector to scan me objects in the bucke
C. If objects contain PI
D. trigger an S3 Lifecycle policy to remove the objects that contain PlI.
E. Use an Amazon S3 bucket as a secure transfer poin
F. Use Amazon Macie to scan the objects in the bucke
G. If objects contain PI
H. Use Amazon Simple Notification Service (Amazon SNS) to trigger a notification to the administrators to remove the objects mat contain PlI.
I. Implement custom scanning algorithms in an AWS Lambda functio
J. Trigger the function when objects are loaded into the bucke
K. It objects contain RI
L. use Amazon Simple Notification Service (Amazon SNS) to trigger a notification to the administrators to remove the objects that contain PlI.
M. Implement custom scanning algorithms in an AWS Lambda functio
N. Trigger the function when objects are loaded into the bucke
O. If objects contain PI
P. use Amazon Simple Email Service (Amazon STS) to trigger a notification to the administrators and trigger on S3 Lifecycle policy to remove the objects mot contain PII.

Answer: B

NEW QUESTION 102
- (Exam Topic 1)
A company hosts a data lake on AWS. The data lake consists of data in Amazon S3 and Amazon RDS for PostgreSQL. The company needs a reporting solution that provides data visualization and includes all the data sources within the data lake. Only the company's management team should have full access to all the visualizations. The rest of the company should have only limited access.
Which solution will meet these requirements?

A. Create an analysis in Amazon QuickSigh
B. Connect all the data sources and create new dataset
C. Publish dashboards to visualize the dat
D. Share the dashboards with the appropriate IAM roles.
E. Create an analysis in Amazon OuickSigh
F. Connect all the data sources and create new dataset
G. Publish dashboards to visualize the dat
H. Share the dashboards with the appropriate users and groups.
I. Create an AWS Glue table and crawler for the data in Amazon S3. Create an AWS Glue extract, transform, and load (ETL) job to produce report
J. Publish the reports to Amazon S3. Use S3 bucket policies to limit access to the reports.
K. Create an AWS Glue table and crawler for the data in Amazon S3. Use Amazon Athena Federated Query to access data within Amazon RDS for PoslgreSQ
L. Generate reports by using Amazon Athen
M. Publish the reports to Amazon S3. Use S3 bucket policies to limit access to the reports.

Answer: A

NEW QUESTION 106
- (Exam Topic 1)
A social media company allows users to upload images to its website. The website runs on Amazon EC2 instances. During upload requests, the website resizes the images to a standard size and stores the resized images in Amazon S3. Users are experiencing slow upload requests to the website.
The company needs to reduce coupling within the application and improve website performance. A solutions architect must design the most operationally efficient process for image uploads.
Which combination of actions should the solutions architect take to meet these requirements? (Choose two.)

A. Configure the application to upload images to S3 Glacier.
B. Configure the web server to upload the original images to Amazon S3.
C. Configure the application to upload images directly from each user's browser to Amazon S3 through the use of a presigned URL.
D. Configure S3 Event Notifications to invoke an AWS Lambda function when an image is uploade
E. Use the function to resize the image
F. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function on a schedule to resize uploaded images.

Answer: BD

NEW QUESTION 111
- (Exam Topic 1)
A company has applications that run on Amazon EC2 instances in a VPC. One of the applications needs to call the Amazon S3 API to store and read objects.
According to the company's security regulations, no traffic from the applications is allowed to travel across the internet.
Which solution will meet these requirements?

A. Configure an S3 interface endpoint.
B. Configure an S3 gateway endpoint.

C. Create an S3 bucket in a private subnet.
D. Create an S3 bucket in the same Region as the EC2 instance.

Answer: B

Explanation:
https://docs.aws.amazon.com/AmazonS3/latest/userguide/privatelink-interface-endpoints.html#types-of-vpc-end
https://docs.aws.amazon.com/vpc/latest/userguide/vpc-endpoints-s3.html

NEW QUESTION 115
- (Exam Topic 1)
A company is migrating a distributed application to AWS The application serves variable workloads The legacy platform consists of a primary server trial coordinates jobs across multiple compute nodes The company wants to modernize the application with a solution that maximizes resiliency and scalability.
How should a solutions architect design the architecture to meet these requirements?

A. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a destination for the jobs Implement the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling grou
B. Configure EC2 Auto Scaling to use scheduled scaling
C. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a destination for the jobs Implement the compute nodes with Amazon EC2 Instances that are managed in an Auto Scaling group Configure EC2 Auto Scaling based on the size of the queue
D. Implement the primary server and the compute nodes with Amazon EC2 instances that are managed In an Auto Scaling grou
E. Configure AWS CloudTrail as a destination for the fobs Configure EC2 Auto Scaling based on the load on the primary server
F. implement the primary server and the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling group Configure Amazon EventBridge (Amazon CloudWatch Events) as a destination for the jobs Configure EC2 Auto Scaling based on the load on the compute nodes

Answer: B

NEW QUESTION 117
- (Exam Topic 1)
A company runs a photo processing application that needs to frequently upload and download pictures from Amazon S3 buckets that are located in the same AWS Region. A solutions architect has noticed an increased cost in data transfer fees and needs to implement a solution to reduce these costs.
How can the solutions architect meet this requirement?

A. Deploy Amazon API Gateway into a public subnet and adjust the route table to route S3 calls through It.
B. Deploy a NAT gateway into a public subnet and attach an end point 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 118
- (Exam Topic 1)
A company has a production web application in which users upload documents through a web interlace or a mobile app. According to a new regulatory requirement, new documents cannot be modified or deleted after they are stored.
What should a solutions architect do to meet this requirement?

A. Store the uploaded documents in an Amazon S3 bucket with S3 Versioning and S3 Object Lock enabled
B. Store the uploaded documents in an Amazon S3 bucke
C. Configure an S3 Lifecycle policy to archive the documents periodically.
D. Store the uploaded documents in an Amazon S3 bucket with S3 Versioning enabled Configure an ACL to restrict all access to read-only.
E. Store the uploaded documents on an Amazon Elastic File System (Amazon EFS) volum
F. Access the data by mounting the volume in read-only mode.

Answer: A

Explanation:
https://docs.aws.amazon.com/AmazonS3/latest/userguide/object-lock-overview.html

NEW QUESTION 122
- (Exam Topic 1)
A company has registered its domain name with Amazon Route 53. The company uses Amazon API Gateway in the ca-central-1 Region as a public interface for its backend microservice APIs. Third-party services consume the APIs securely. The company wants to design its API Gateway URL with the company's domain name and corresponding certificate so that the third-party services can use HTTPS.
Which solution will meet these requirements?

A. Create stage variables in API Gateway with Name="Endpoint-URL" and Value="Company Domain Name" to overwrite the default UR
B. Import the public certificate associated with the company's domain name into AWS Certificate Manager (ACM).
C. Create Route 53 DNS records with the company's domain nam
D. Point the alias record to the Regional API Gateway stage endpoin
E. Import the public certificate associated with the company's domain name into AWS Certificate Manager (ACM) in the us-east-1 Region.
F. Create a Regional API Gateway endpoin
G. Associate the API Gateway endpoint with the company's domain nam
H. Import the public certificate associated with the company's domain name into AWS Certificate Manager (ACM) in the same Regio
I. Attach the certificate to the API Gateway endpoin
J. Configure Route 53 to route traffic to the API Gateway endpoint.
K. Create a Regional API Gateway endpoin
L. Associate the API Gateway endpoint with the company's domain nam
M. Import the public certificate associated with the company's domain name into AWS Certificate Manager (ACM) in the us-east-1 Regio
N. Attach the certificate to the API Gateway APIs.Create Route 53 DNS records with the company's domain nam

O. Point an A record to the company's domain name.

Answer: D

NEW QUESTION 124
- (Exam Topic 1)
A company uses Amazon S3 to store its confidential audit documents. The S3 bucket uses bucket policies to restrict access to audit team IAM user credentials according to the principle of least privilege. Company managers are worried about accidental deletion of documents in the S3 bucket and want a more secure solution.
What should a solutions architect do to secure the audit documents?

A. Enable the versioning and MFA Delete features on the S3 bucket.
B. Enable multi-factor authentication (MFA) on the IAM user credentials for each audit team IAM user account.
C. Add an S3 Lifecycle policy to the audit team's IAM user accounts to deny the s3:DeleteObject action during audit dates.
D. Use AWS Key Management Service (AWS KMS) to encrypt the S3 bucket and restrict audit team IAM user accounts from accessing the KMS key.

Answer: A

NEW QUESTION 128
- (Exam Topic 1)
A company runs an on-premises application that is powered by a MySQL database The company is migrating the application to AWS to Increase the application's elasticity and availability
The current architecture shows heavy read activity on the database during times of normal operation Every 4 hours the company's development team pulls a full export of the production database to populate a database in the staging environment During this period, users experience unacceptable application latency The development team is unable to use the staging environment until the procedure completes
A solutions architect must recommend replacement architecture that alleviates the application latency issue The replacement architecture also must give the development team the ability to continue using the staging environment without delay
Which solution meets these requirements?

A. Use Amazon Aurora MySQL with Multi-AZ Aurora Replicas for productio
B. Populate the staging database by implementing a backup and restore process that uses the mysqldump utility.
C. Use Amazon Aurora MySQL with Multi-AZ Aurora Replicas for production Use database cloning to create the staging database on-demand
D. Use Amazon RDS for MySQL with a Mufti AZ deployment and read replicas for production Use the standby instance tor the staging database.
E. Use Amazon RDS for MySQL with a Multi-AZ deployment and read replicas for productio
F. Populate the staging database by implementing a backup and restore process that uses the mysqldump utility.

Answer: B

Explanation:
https://aws.amazon.com/blogs/aws/amazon-aurora-fast-database-cloning/

NEW QUESTION 133
- (Exam Topic 1)
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 137
- (Exam Topic 1)
A company uses AWS Organizations to manage multiple AWS accounts for different departments. The management account has an Amazon S3 bucket that contains project reports. The company wants to limit access to this S3 bucket to only users of accounts within the organization in AWS Organizations.
Which solution meets these requirements with the LEAST amount of operational overhead?

A. Add the aws:PrincipalOrgID global condition key with a reference to the organization ID to the S3 bucket policy.
B. Create an organizational unit (OU) for each departmen
C. Add the aws:PrincipalOrgPaths global condition key to the S3 bucket policy.
D. Use AWS CloudTrail to monitor the CreateAccount, InviteAccountToOrganization, LeaveOrganization, and RemoveAccountFromOrganization event
E. Update the S3 bucket policy accordingly.
F. Tag each user that needs access to the S3 bucke
G. Add the aws:PrincipalTag global condition key to the S3 bucket policy.

Answer: A

Explanation:
https://aws.amazon.com/blogs/security/control-access-to-aws-resources-by-using-the-aws-organization-of-iam-p The aws:PrincipalOrgID global key provides an alternative to listing all the account IDs for all AWS accounts in an organization. For example, the following Amazon S3 bucket policy allows members of any account in the XXX organization to add an object into the examtopics bucket.

{"Version": "2020-09-10",
"Statement": {
"Sid": "AllowPutObject", "Effect": "Allow",
"Principal": "*", "Action": "s3:PutObject",
"Resource": "arn:aws:s3:::examtopics/*", "Condition": {"StringEquals":
{"aws:PrincipalOrgID":["XXX"]}}}} https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_condition-keys.html

NEW QUESTION 138
- (Exam Topic 1)
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

Explanation:
https://aws.amazon.com/blogs/networking-and-content-delivery/scaling-network-traffic-inspection-using-aws-ga

NEW QUESTION 142
- (Exam Topic 1)
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

Explanation:
VPC endpoint allows you to connect to AWS services using a private network instead of using the public Internet

NEW QUESTION 143
- (Exam Topic 1)
A company has several web servers that need to frequently access a common Amazon RDS MySQL Multi-AZ DB instance The company wants a secure method for the web servers to connect to the database while meeting a security requirement to rotate user credentials frequently.
Which solution meets these requirements?

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

Answer: A

Explanation:
AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle.
https://docs.aws.amazon.com/secretsmanager/latest/userguide/intro.html
Secrets Manager enables you to replace hardcoded credentials in your code, including passwords, with an API call to Secrets Manager to retrieve the secret programmatically. This helps ensure the secret can't be compromised by someone examining your code, because the secret no longer exists in the code. Also, you can configure Secrets Manager to automatically rotate the secret for you according to a specified schedule. This enables you to replace long-term secrets with short-term ones, significantly reducing the risk of compromise.

NEW QUESTION 146
- (Exam Topic 1)
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."
https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

NEW QUESTION 149
- (Exam Topic 1)
A company runs an ecommerce application on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. The Auto Scaling group scales based on CPU utilization metrics. The ecommerce application stores the transaction data in a MySQL 8.0 database that is hosted on a large EC2 instance.
The database's performance degrades quickly as application load increases. The application handles more read requests than write transactions. The company wants a solution that will automatically scale the database to meet the demand of unpredictable read workloads while maintaining high availability.
Which solution will meet these requirements?

A. Use Amazon Redshift with a single node for leader and compute functionality.
B. Use Amazon RDS with a Single-AZ deployment Configure Amazon RDS to add reader instances in a different Availability Zone.
C. Use Amazon Aurora with a Multi-AZ deploymen
D. Configure Aurora Auto Scaling with Aurora Replicas.
E. Use Amazon ElastiCache for Memcached with EC2 Spot Instances.

Answer: C

Explanation:
AURORA is 5x performance improvement over MySQL on RDS and handles more read requests than write,; maintaining high availability = Multi-AZ deployment

NEW QUESTION 153
- (Exam Topic 2)
A large media company hosts a web application on AWS. The company wants to start caching confidential media files so that users around the world will have reliable access to the files. The content is stored in Amazon S3 buckets. The company must deliver the content quickly, regardless of where the requests originate geographically.
Which solution will meet these requirements?

A. Use AWS DataSync to connect the S3 buckets to the web application.
B. Deploy AWS Global Accelerator to connect the S3 buckets to the web application.
C. Deploy Amazon CloudFront to connect the S3 buckets to CloudFront edge servers.
D. Use Amazon Simple Queue Service (Amazon SQS) to connect the S3 buckets to the web application.

Answer: C

Explanation:
CloudFront uses a local cache to provide the response, AWS Global accelerator proxies requests and connects to the application all the time for the response.
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3

NEW QUESTION 156
- (Exam Topic 2)
A solutions architect needs to securely store a database user name and password that an application uses to access an Amazon RDS DB instance. The application that accesses the database runs on an Amazon EC2 instance. The solutions architect wants to create a secure parameter in AWS Systems Manager Parameter Store.
What should the solutions architect do to meet this requirement?

A. Create an IAM role that has read access to the Parameter Store paramete
B. Allow Decrypt access to an AWS Key Management Service (AWS KMS) key that is used to encrypt the paramete
C. Assign this IAM role to the EC2 instance.
D. Create an IAM policy that allows read access to the Parameter Store paramete
E. Allow Decrypt access to an AWS Key Management Service (AWS KMS) key that is used to encrypt the paramete
F. Assign this IAM policy to the EC2 instance.
G. Create an IAM trust relationship between the Parameter Store parameter and the EC2 instanc
H. Specify Amazon RDS as a principal in the trust policy.
I. Create an IAM trust relationship between the DB instance and the EC2 instanc
J. Specify Systems Manager as a principal in the trust policy.

Answer: B

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_aws-services-that-work-with-iam.html

NEW QUESTION 160
- (Exam Topic 2)
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

NEW QUESTION 163
- (Exam Topic 2)
A company needs to move data from an Amazon EC2 instance to an Amazon S3 bucket. The company must ensure that no API calls and no data are routed through public internet routes. Only the EC2 instance can have access to upload data to the S3 bucket.
Which solution will meet these requirements?

A. Create an interface VPC endpoint for Amazon S3 in the subnet where the EC2 instance is located.Attach a resource policy to the S3 bucket to only allow the EC2 instance's IAM role for access.
B. Create a gateway VPC endpoint for Amazon S3 in the Availability Zone where the EC2 instance is locate
C. Attach appropriate security groups to the endpoin
D. Attach a resource policy lo the S3 bucket to only allow the EC2 instance's IAM role for access.
E. Run the nslookup tool from inside the EC2 instance to obtain the private IP address of the S3 bucket's service API endpoin
F. Create a route in the VPC route table to provide the EC2 instance with access to the S3 bucke
G. Attach a resource policy to the S3 bucket to only allow the EC2 instance's IAM role for access.
H. Use the AWS provided, publicly available ip-ranges.json tile to obtain the private IP address of the S3 bucket's service API endpoin
I. Create a route in the VPC route table to provide the EC2 instance with access to the S3 bucke
J. Attach a resource policy to the S3 bucket to only allow the EC2 instance's IAM role for access.

Answer: A

Explanation:
(https://aws.amazon.com/blogs/security/how-to-restrict-amazon-s3-bucket-access-to-a-specific-iam-role/)

NEW QUESTION 168
- (Exam Topic 2)
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 JDBC connection to Amazon RD
H. Register (he S3 bucket in Lake Formatio
I. Use Lake Formation access controls to limit access.
J. Create an Amazon Redshift cluste
K. 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: D

NEW QUESTION 173
- (Exam Topic 2)
A company is migrating its on-premises PostgreSQL database to Amazon Aurora PostgreSQL. The
on-premises database must remain online and accessible during the migration. The Aurora database must remain synchronized with the on-premises database.
Which combination of actions must a solutions architect take to meet these requirements? (Choose two.)

A. Create an ongoing replication task.
B. Create a database backup of the on-premises database
C. Create an AWS Database Migration Service (AWS DMS) replication server
D. Convert the database schema by using the AWS Schema Conversion Tool (AWS SCT).
E. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to monitor the database synchronization

Answer: CD

NEW QUESTION 175
- (Exam Topic 2)
A company wants to run a gaming application on Amazon EC2 instances that are part of an Auto Scaling group in the AWS Cloud. The application will transmit data by using UDP packets. The company wants to ensure that the application can scale out and in as traffic increases and decreases.
What should a solutions architect do to meet these requirements?

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

Answer: B

NEW QUESTION 178
- (Exam Topic 2)
A company is migrating an application from on-premises servers to Amazon EC2 instances. As part of the migration design requirements, a solutions architect must implement infrastructure metric alarms. The company does not need to take action if CPU utilization increases to more than 50% for a short burst of time. However, if the CPU utilization increases to more than 50% and read IOPS on the disk are high at the same time, the company needs to act as soon as possible. The solutions architect also must reduce false alarms.
What should the solutions architect do to meet these requirements?

A. Create Amazon CloudWatch composite alarms where possible.
B. Create Amazon CloudWatch dashboards to visualize the metrics and react to issues quickly.
C. Create Amazon CloudWatch Synthetics canaries to monitor the application and raise an alarm.
D. Create single Amazon CloudWatch metric alarms with multiple metric thresholds where possible.

Answer: A

NEW QUESTION 183
- (Exam Topic 2)
A company wants to direct its users to a backup static error page if the company's primary website is unavailable. The primary website's DNS records are hosted in Amazon Route 53. The domain is pointing to an Application Load Balancer (ALB). The company needs a solution that minimizes changes and infrastructure overhead.
Which solution will meet these requirements?

A. Update the Route 53 records to use a latency routing polic
B. Add a static error page that is hosted in an Amazon S3 bucket to the records so that the traffic is sent to the most responsive endpoints.
C. Set up a Route 53 active-passive failover configuratio
D. Direct traffic to a static error page that is hosted in an Amazon S3 bucket when Route 53 health checks determine that the ALB endpoint is unhealthy.
E. Set up a Route 53 active-active configuration with the ALB and an Amazon EC2 instance that hosts a static error page as endpoint
F. Configure Route 53 to send requests to the instance only if the health checks fail for the ALB.
G. Update the Route 53 records to use a multivalue answer routing polic
H. Create a health chec
I. Direct traffic to the website if the health check passe
J. Direct traffic to a static error page that is hosted in Amazon S3 if the health check does not pass.

Answer: B

NEW QUESTION 186
- (Exam Topic 2)
A company has an AWS account used for software engineering. The AWS account has access to the company's on-premises data center through a pair of AWS Direct Connect connections. All non-VPC traffic routes to the virtual private gateway.
A development team recently created an AWS Lambda function through the console. The development team needs to allow the function to access a database that runs in a private subnet in the company's data center.
Which solution will meet these requirements?

A. Configure the Lambda function to run in the VPC with the appropriate security group.
B. Set up a VPN connection from AWS to the data cente
C. Route the traffic from the Lambda function through the VPN.
D. Update the route tables in the VPC to allow the Lambda function to access the on-premises data center through Direct Connect.
E. Create an Elastic IP addres
F. Configure the Lambda function to send traffic through the Elastic IP address without an elastic network interface.

Answer: A

Explanation:
https://docs.aws.amazon.com/lambda/latest/dg/configuration-vpc.html#vpc-managing-eni

NEW QUESTION 189
- (Exam Topic 2)
A company has a Windows-based application that must be migrated to AWS. The application requires the use of a shared Windows file system attached to multiple Amazon EC2 Windows instances that are deployed across multiple Availability Zones.
What should a solutions architect do to meet this requirement?

A. Configure AWS Storage Gateway in volume gateway mod
B. Mount the volume to each Windows instance.
C. Configure Amazon FSx for Windows File Serve
D. Mount the Amazon FSx file system to each Windows instance.
E. Configure a file system by using Amazon Elastic File System (Amazon EFS). Mount the EFS file system to each Windows instance.
F. Configure an Amazon Elastic Block Store (Amazon EBS) volume with the required siz
G. Attach each EC2 instance to the volum
H. Mount the file system within the volume to each Windows instance.

Answer: B

NEW QUESTION 192
- (Exam Topic 2)
A company wants to migrate its MySQL database from on premises to AWS. The company recently experienced a database outage that significantly impacted the business. To ensure this does not happen again, the company wants a reliable database solution on AWS that minimizes data loss and stores every transaction on at least two nodes.
Which solution meets these requirements?

A. Create an Amazon RDS DB instance with synchronous replication to three nodes in three Availability Zones.
B. Create an Amazon RDS MySQL DB instance with Multi-AZ functionality enabled to synchronously replicate the data.
C. Create an Amazon RDS MySQL DB instance and then create a read replica in a separate AWS Region that synchronously replicates the data.
D. Create an Amazon EC2 instance with a MySQL engine installed that triggers an AWS Lambda function to synchronously replicate the data to an Amazon RDS MySQL DB instance.

Answer: B

Explanation:
Q: What does Amazon RDS manage on my behalf?
Amazon RDS manages the work involved in setting up a relational database: from provisioning the infrastructure capacity you request to installing the database software. Once your database is up and running, Amazon RDS automates common administrative tasks such as performing backups and patching the software that powers your database. With optional Multi-AZ deployments, Amazon RDS also manages synchronous data replication across Availability Zones with automatic failover.
https://aws.amazon.com/rds/faqs/

NEW QUESTION 196
- (Exam Topic 2)
A company has a highly dynamic batch processing job that uses many Amazon EC2 instances to complete it. The job is stateless in nature, can be started and stopped at any given time with no negative impact, and typically takes upwards of 60 minutes total to complete. The company has asked a solutions architect to design a scalable and cost-effective solution that meets the requirements of the job.
What should the solutions architect recommend?

A. Implement EC2 Spot Instances
B. Purchase EC2 Reserved Instances
C. Implement EC2 On-Demand Instances
D. Implement the processing on AWS Lambda

Answer: A

NEW QUESTION 199
- (Exam Topic 2)
A solutions architect is creating a new Amazon CloudFront distribution for an application. Some of the information submitted by users is sensitive. The application uses HTTPS but needs another layer of security. The sensitive information should be protected throughout the entire application stack, and access to the information should be restricted to certain applications.
Which action should the solutions architect take?

A. Configure a CloudFront signed URL.
B. Configure a CloudFront signed cookie.
C. Configure a CloudFront field-level encryption profile.
D. Configure CloudFront and set the Origin Protocol Policy setting to HTTPS Only for the Viewer Protocol Policy.

Answer: C

Explanation:
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/field-level-encryption.html
"With Amazon CloudFront, you can enforce secure end-to-end connections to origin servers by using HTTPS. Field-level encryption adds an additional layer of security that lets you protect specific data throughout system processing so that only certain applications can see it."

NEW QUESTION 201
- (Exam Topic 2)
A company runs a web-based portal that provides users with global breaking news, local alerts, and weather updates. The portal delivers each user a personalized view by using mixture of static and dynamic content. Content is served over HTTPS through an API server running on an Amazon EC2 instance behind an Application Load Balancer (ALB). The company wants the portal to provide this content to its users across the world as quickly as possible.
How should a solutions architect design the application to ensure the LEAST amount of latency for all users?

A. Deploy the application stack in a single AWS Regio
B. Use Amazon CloudFront to serve all static and dynamic content by specifying the ALB as an origin.
C. Deploy the application stack in two AWS Region
D. Use an Amazon Route 53 latency routing policy to serve all content from the ALB in the closest Region.
E. Deploy the application stack in a single AWS Regio
F. Use Amazon CloudFront to serve the static conten
G. Serve the dynamic content directly from the ALB.
H. Deploy the application stack in two AWS Region
I. Use an Amazon Route 53 geolocation routing policy to serve all content from the ALB in the closest Region.

Answer: A

Explanation:
https://aws.amazon.com/blogs/networking-and-content-delivery/deliver-your-apps-dynamic-content-using-amaz

NEW QUESTION 203
- (Exam Topic 2)
A company has two applications: a sender application that sends messages with payloads to be processed and a processing application intended to receive the messages with payloads. The company wants to implement an AWS service to handle messages between the two applications. The sender application can send about 1.000 messages each hour. The messages may take up to 2 days to be processed. If the messages fail to process, they must be retained so that they do not impact the processing of any remaining messages.
Which solution meets these requirements and is the MOST operationally efficient?

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

Answer: C

Explanation:
https://aws.amazon.com/blogs/compute/building-loosely-coupled-scalable-c-applications-with-amazon-sqs-and-
https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-dead-letter-queues.htm

NEW QUESTION 205
- (Exam Topic 2)
A solutions architect needs to implement a solution to reduce a company's storage costs. All the company's data is in the Amazon S3 Standard storage class. The company must keep all data for at least 25 years. Data from the most recent 2 years must be highly available and immediately retrievable.
Which solution will meet these requirements?

A. Set up an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive immediately.
B. Set up an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive after 2 years.
C. Use S3 Intelligent-Tierin
D. Activate the archiving option to ensure that data is archived in S3 Glacier Deep Archive.
E. Set up an S3 Lifecycle policy to transition objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) immediately and to S3 Glacier Deep Archive after 2 years.

Answer: B

NEW QUESTION 208
- (Exam Topic 2)
A solutions architect needs to help a company optimize the cost of running an application on AWS. The application will use Amazon EC2 instances, AWS Fargate, and AWS Lambda for compute within the architecture.
The EC2 instances will run the data ingestion layer of the application. EC2 usage will be sporadic and unpredictable. Workloads that run on EC2 instances can be interrupted at any time. The application front end will run on Fargate, and Lambda will serve the API layer. The front-end utilization and API layer utilization will be predictable over the course of the next year.
Which combination of purchasing options will provide the MOST cost-effective solution for hosting this application? (Choose two.)

A. Use Spot Instances for the data ingestion layer
B. Use On-Demand Instances for the data ingestion layer
C. Purchase a 1-year Compute Savings Plan for the front end and API layer.
D. Purchase 1-year All Upfront Reserved instances for the data ingestion layer.
E. Purchase a 1-year EC2 instance Savings Plan for the front end and API layer.

Answer: AC

NEW QUESTION 211
- (Exam Topic 2)
A company has a legacy data processing application that runs on Amazon EC2 instances. Data is processed sequentially, but the order of results does not matter. The application uses a monolithic architecture. The only way that the company can scale the application to meet increased demand is to increase the size of the instances.
The company's developers have decided to rewrite the application to use a microservices architecture on Amazon Elastic Container Service (Amazon ECS).
What should a solutions architect recommend for communication between the microservices?

A. Create an Amazon Simple Queue Service (Amazon SQS) queu
B. Add code to the data producers, and send data to the queu
C. Add code to the data consumers to process data from the queue.
D. Create an Amazon Simple Notification Service (Amazon SNS) topi
E. Add code to the data producers, and publish notifications to the topi
F. Add code to the data consumers to subscribe to the topic.
G. Create an AWS Lambda function to pass message
H. Add code to the data producers to call the Lambda function with a data objec
I. Add code to the data consumers to receive a data object that is passed from the Lambda function.
J. Create an Amazon DynamoDB tabl
K. Enable DynamoDB Stream
L. Add code to the data producers to insert data into the tabl
M. Add code to the data consumers to use the DynamoDB Streams API to detect new table entries and retrieve the data.

Answer: A

Explanation:
Queue has Limited throughput (300 msg/s without batching, 3000 msg/s with batching whereby up-to 10 msg per batch operation; Msg duplicates not allowed in the queue (exactly-once delivery); Msg order is preserved (FIFO); Queue name must end with .fifo

NEW QUESTION 214
- (Exam Topic 2)
A company is running a multi-tier web application on premises. The web application is containerized and runs on a number of Linux hosts connected to a

PostgreSQL database that contains user records. The operational overhead of maintaining the infrastructure and capacity planning is limiting the company's growth. A solutions architect must improve the application's infrastructure.

Which combination of actions should the solutions architect take to accomplish this? (Choose two.)

A. Migrate the PostgreSQL database to Amazon Aurora
B. Migrate the web application to be hosted on Amazon EC2 instances.
C. Set up an Amazon CloudFront distribution for the web application content.
D. Set up Amazon ElastiCache between the web application and the PostgreSQL database.
E. Migrate the web application to be hosted on AWS Fargate with Amazon Elastic Container Service (Amazon ECS).

Answer: AE

NEW QUESTION 216
- (Exam Topic 2)
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:
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 217
- (Exam Topic 2)
A company is planning to build a high performance computing (HPC) workload as a service solution that Is hosted on AWS A group of 16 AmazonEC2Ltnux Instances requires the lowest possible latency for
node-to-node communication. The instances also need a shared block device volume for high-performing
storage.
Which solution will meet these requirements?

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

Answer: A

NEW QUESTION 221
- (Exam Topic 2)
A company wants to migrate its on-premises data center to AWS. According to the company's compliance requirements, the company can use only the ap-northeast-3 Region. Company administrators are not permitted to connect VPCs to the internet.
Which solutions will meet these requirements? (Choose two.)

A. Use AWS Control Tower to implement data residency guardrails to deny internet access and deny access to all AWS Regions except ap-northeast-3.
B. Use rules in AWS WAF to prevent internet acces
C. Deny access to all AWS Regions except ap-northeast-3 in the AWS account settings.
D. Use AWS Organizations to configure service control policies (SCPS) that prevent VPCs from gaining internet acces
E. Deny access to all AWS Regions except ap-northeast-3.
F. Create an outbound rule for the network ACL in each VPC to deny all traffic from 0.0.0.0/0. Create an IAM policy for each user to prevent the use of any AWS Region other than ap-northeast-3.
G. Use AWS Config to activate managed rules to detect and alert for internet gateways and to detect and alert for new resources deployed outside of ap-northeast-3.

Answer: AC

NEW QUESTION 224
- (Exam Topic 2)
An application runs on Amazon EC2 instances across multiple Availability Zones The instances run in an Amazon EC2 Auto Scaling group behind an Application Load Balancer The application performs best when the CPU utilization of the EC2 instances is at or near 40%.
What should a solutions architect do to maintain the desired performance across all instances in the group?

A. Use a simple scaling policy to dynamically scale the Auto Scaling group
B. Use a target tracking policy to dynamically scale the Auto Scaling group
C. Use an AWS Lambda function to update the desired Auto Scaling group capacity.
D. Use scheduled scaling actions to scale up and scale down the Auto Scaling group

Answer: B

Explanation:
https://docs.aws.amazon.com/autoscaling/application/userguide/application-auto-scaling-target-tracking.html

NEW QUESTION 226
- (Exam Topic 2)
A solutions architect is optimizing a website for an upcoming musical event. Videos of the performances will be streamed in real time and then will be available on demand. The event is expected to attract a global online audience.
Which service will improve the performance of both the real-lime and on-demand streaming?

A. Amazon CloudFront
B. AWS Global Accelerator
C. Amazon Route 53
D. Amazon S3 Transfer Acceleration

Answer: A

Explanation:
You can use CloudFront to deliver video on demand (VOD) or live streaming video using any HTTP origin. One way you can set up video workflows in the cloud is by using CloudFront together with AWS Media Services.
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/on-demand-streaming-video.html

NEW QUESTION 228
- (Exam Topic 2)
A company has implemented a self-managed DNS solution on three Amazon EC2 instances behind a Network Load Balancer (NLB) in the us-west-2 Region. Most of the company's users are located in the United States and Europe. The company wants to improve the performance and availability of the solution. The company launches and configures three EC2 instances in the eu-west-1 Region and adds the EC2 instances as targets for a new NLB.
Which solution can the company use to route traffic to all the EC2 instances?

A. Create an Amazon Route 53 geolocation routing policy to route requests to one of the two NLB
B. Create an Amazon CloudFront distributio
C. Use the Route 53 record as the distribution's origin.
D. Create a standard accelerator in AWS Global Accelerato
E. Create endpoint groups in us-west-2 and eu-west-1. Add the two NLBs as endpoints for the endpoint groups.
F. Attach Elastic IP addresses to the six EC2 instance
G. Create an Amazon Route 53 geolocation routing policy to route requests to one of the six EC2 instance
H. Create an Amazon CloudFront distributio
I. Usethe Route 53 record as the distribution's origin.
J. Replace the two NLBs with two Application Load Balancers (ALBs). Create an Amazon Route 53 latency routing policy to route requests to one of the two ALB
K. Create an Amazon CloudFront distributio
L. Use the Route 53 record as the distribution's origin.

Answer: B

Explanation:
For standard accelerators, Global Accelerator uses the AWS global network to route traffic to the optimal regional endpoint based on health, client location, and policies that you configure, which increases the availability of your applications. Endpoints for standard accelerators can be Network Load Balancers, Application Load Balancers, Amazon EC2 instances, or Elastic IP addresses that are located in one AWS Region or multiple Regions.
https://docs.aws.amazon.com/global-accelerator/latest/dg/what-is-global-accelerator.html

NEW QUESTION 230
- (Exam Topic 2)
A company runs a production application on a fleet of Amazon EC2 instances. The application reads the data from an Amazon SQS queue and processes the messages in parallel. The message volume is unpredictable and often has intermittent traffic. This application should continually process messages without any downtime.
Which solution meets these requirements MOST cost-effectively?

A. Use Spot Instances exclusively to handle the maximum capacity required.
B. Use Reserved Instances exclusively to handle the maximum capacity required.
C. Use Reserved Instances for the baseline capacity and use Spot Instances to handle additional capacity.
D. Use Reserved Instances for the baseline capacity and use On-Demand Instances to handle additional capacity.

Answer: D

Explanation:
We recommend that you use On-Demand Instances for applications with short-term, irregular workloads that cannot be interrupted.
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-on-demand-instances.html

NEW QUESTION 234
- (Exam Topic 2)
A company's web application is running on Amazon EC2 instances behind an Application Load Balancer. The company recently changed its policy, which now requires the application to be accessed from one specific country only.
Which configuration will meet this requirement?

A. Configure the security group for the EC2 instances.
B. Configure the security group on the Application Load Balancer.
C. Configure AWS WAF on the Application Load Balancer in a VPC.
D. Configure the network ACL for the subnet that contains the EC2 instances.

Answer: C

Explanation:
https://aws.amazon.com/about-aws/whats-new/2017/10/aws-waf-now-supports-geographic-match/

NEW QUESTION 236
- (Exam Topic 2)
A reporting team receives files each day in an Amazon S3 bucket. The reporting team manually reviews and copies the files from this initial S3 bucket to an analysis S3 bucket each day at the same time to use with Amazon QuickSight. Additional teams are starting to send more files in larger sizes to the initial S3 bucket.
The reporting team wants to move the files automatically analysis S3 bucket as the files enter the initial S3 bucket. The reporting team also wants to use AWS Lambda functions to run pattern-matching code on the copied data. In addition, the reporting team wants to send the data files to a pipeline in Amazon SageMaker Pipelines.
What should a solutions architect do to meet these requirements with the LEAST operational overhead?

A. Create a Lambda function to copy the files to the analysis S3 bucke
B. Create an S3 event notification for the analysis S3 bucke
C. Configure Lambda and SageMaker Pipelines as destinations of the event notificatio
D. Configure s3ObjectCreated:Put as the event type.
E. Create a Lambda function to copy the files to the analysis S3 bucke
F. Configure the analysis S3 bucket to send event notifications to Amazon EventBridge (Amazon CloudWatch Events). Configure an ObjectCreated rule in EventBridge (CloudWatch Events). Configure Lambda and SageMaker Pipelines as targets for the rule.
G. Configure S3 replication between the S3 bucket
H. Create an S3 event notification for the analysis S3 bucke
I. Configure Lambda and SageMaker Pipelines as destinations of the event notificatio
J. Configure s3ObjectCreated:Put as the event type.
K. Configure S3 replication between the S3 bucket
L. Configure the analysis S3 bucket to send event notifications to Amazon EventBridge (Amazon CloudWatch Events). Configure an ObjectCreated rule in EventBridge (CloudWatch Events). Configure Lambda and SageMaker Pipelines as targets for the rule.

Answer: A

NEW QUESTION 240
- (Exam Topic 2)
A company wants to move its application to a serverless solution. The serverless solution needs to analyze existing and new data by using SL. The company stores the data in an Amazon S3 bucket. The data requires encryption and must be replicated to a different AWS Region.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create a new S3 bucke
B. Load the data into the new S3 bucke
C. Use S3 Cross-Region Replication (CRR) to replicate encrypted objects to an S3 bucket in another Regio
D. Use server-side encryption with AWS KMS multi-Region kays (SSE-KMS). Use Amazon Athena to query the data.
E. Create a new S3 bucke
F. Load the data into the new S3 bucke
G. Use S3 Cross-Region Replication (CRR) to replicate encrypted objects to an S3 bucket in another Regio
H. Use server-side encryption with AWS KMS multi-Region keys (SSE-KMS). Use Amazon RDS to query the data.
I. Load the data into the existing S3 bucke
J. Use S3 Cross-Region Replication (CRR) to replicate encrypted objects to an S3 bucket in another Regio
K. Use server-side encryption with Amazon S3managed encryption keys (SSE-S3). Use Amazon Athena to query the data.
L. Load the data into the existing S3 bucke
M. Use S3 Cross-Region Replication (CRR) to replicate encrypted objects to an S3 bucket in another Regio
N. Use server-side encryption with Amazon S3 managed encryption keys (SSE-S3). Use Amazon RDS to query the data.

Answer: A

NEW QUESTION 245
- (Exam Topic 2)
A company has a service that produces event data. The company wants to use AWS to process the event data as it is received. The data is written in a specific order that must be maintained throughout processing The company wants to implement a solution that minimizes operational overhead. How should a solutions architect accomplish this?

A. Create an Amazon Simple Queue Service (Amazon SQS) FIFO queue to hold messages Set up an AWS Lambda function to process messages from the queue
B. Create an Amazon Simple Notification Service (Amazon SNS) topic to deliver notifications containing payloads to process Configure an AWS Lambda function as a subscriber.
C. Create an Amazon Simple Queue Service (Amazon SQS) standard queue to hold message
D. Set up an AWS Lambda function to process messages from the queue independently
E. Create an Amazon Simple Notification Service (Amazon SNS) topic to deliver notifications containing payloads to proces
F. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a subscriber.

Answer: A

Explanation:
The details are revealed in below url: https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/FIFO-queues.html
FIFO (First-In-First-Out) queues are designed to enhance messaging between applications when the order of operations and events is critical, or where duplicates can't be tolerated. Examples of situations where you might use FIFO queues include the following: To make sure that user-entered commands are run in the right order. To display the correct product price by sending price modifications in the right order. To prevent a student from enrolling in a course before registering for an account.

NEW QUESTION 248

- (Exam Topic 2)

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 bucke
C. Use Amazon Athena to query the data.
D. Create an Auto Scaling group of Amazon EC2 instances to run a custom application that processes the scanned files and extracts the medical information.
E. Create an AWS Lambda function that runs when new documents are uploade
F. Use Amazon Rekognition to convert the documents to raw tex
G. Use Amazon Transcribe Medical to detect and extract relevant medical information from the text.
H. Create an AWS Lambda function that runs when new documents are uploade
I. Use Amazon Textract to convert the documents to raw tex
J. Use Amazon Comprehend Medical to detect and extract relevant medical information from the text.

Answer: DE

NEW QUESTION 249
- (Exam Topic 2)

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 the PowerUsers 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 252
- (Exam Topic 2)

A corporation has recruited a new cloud engineer who should not have access to the CompanyConfidential Amazon S3 bucket. The cloud engineer must have read and write permissions on an S3 bucket named AdminTools.

Which IAM policy will satisfy these criteria?

A. Text, letter Description automatically generated

```
"Version": "2012-10-17",
"Statement": [
    {
        "Effect": "Allow",
        "Action": "s3:ListBucket",
        "Resource": "arn:aws:s3:::AdminTools"
    },
    {
        "Effect": "Allow",
        "Action": [ "s3:GetObject", "s3:PutObject" ],
        "Resource": "arn:aws:s3:::AdminTools/*"
    },
    {
        "Effect": "Deny",
        "Action": "s3:*",
        "Resource": [
            "arn:aws:s3:::CompanyConfidential/*",
            "arn:aws:s3:::CompanyConfidential"
        ]
    }
]
}
```

B. Text Description automatically generated

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "s3:ListBucket",
            "Resource": [
                "arn:aws:s3:::AdminTools",
                "arn:aws:s3:::CompanyConfidential/*"
            ]
        },
        {
            "Effect": "Allow",
            "Action": [ "s3:GetObject", "s3:PutObject", "s3:DeleteObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": "arn:aws:s3:::CompanyConfidential"
        }
    ]
}
```

C. Text, application Description automatically generated

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow"
            "Action": [ "s3:GetObject", "s3:PutObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": [
                "arn:aws:s3:::CompanyConfidential/*",
                "arn:aws:s3:::CompanyConfidential"
            ]
        }
    ]
}
```

D. Text, application Description automatically generated

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "s3:ListBucket",
            "Resource": "arn:aws:s3:::AdminTools/*'
        },
        {
            "Effect": "Allow",
            "Action": [ "s3:GetObject", "s3:PutObject", "s3:DeleteObject" ],
            "Resource": "arn:aws:s3:::AdminTools/*"
        },
        {
            "Effect": "Deny",
            "Action": "s3:*",
            "Resource": [
                "arn:aws:s3:::CompanyConfidential",
                "arn:aws:s3:::CompanyConfidential/*",
                "arn:aws:s3:::AdminTools/*"
            ]
        }
    ]
}
```

Answer: A

Explanation:
https://docs.amazonaws.cn/en_us/IAM/latest/UserGuide/reference_policies_examples_s3_rw-bucket.html

NEW QUESTION 254
- (Exam Topic 2)
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 Notification Service (Amazon SNS) topic when a CreateImage API call is detected.

Answer: B

NEW QUESTION 256
- (Exam Topic 2)
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 259
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