# Amazon-Web-Services

## Exam Questions SAA-C03

AWS Certified Solutions Architect - Associate (SAA-C03)

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**NEW QUESTION 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:**
Explanation
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-capacity-reservations.html: "When you create a Capacity Reservation, you specify:
The Availability Zone in which to reserve the capacity"

**NEW QUESTION 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:**
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 3**
A company needs to review its AWS Cloud deployment to ensure that its Amazon S3 buckets do not have unauthorized configuration changes.
What should a solutions architect do to accomplish this goal?

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

**Answer:** A

**NEW QUESTION 4**
A company provides a Voice over Internet Protocol (VoIP) service that uses UDP connections. The service consists of Amazon EC2 instances that run in an Auto Scaling group. The company has deployments across multiple AWS Regions.
The company needs to route users to the Region with the lowest latency. The company also needs automated failover between Regions.
Which solution will meet these requirements?

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

**Answer:** C

**NEW QUESTION 5**
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 6**
A company recently launched a variety of new workloads on Amazon EC2 instances in its AWS account. The company needs to create a strategy to access and administer the instances remotely and securely. The company needs to implement a repeatable process that works with native AWS services and follows the AWS Well-Architected Framework.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use the EC2 serial console to directly access the terminal interface of each instance for administration.
B. Attach the appropriate 1AM role to each existing instance and new instanc
C. Use AWS Systems Manager Session Manager to establish a remote SSH session.
D. Create an administrative SSH key pai
E. Load the public key into each EC2 instanc
F. Deploy a bastion host in a public subnet to provide a tunnel for administration of each instance.
G. Establish an AWS Site-to-Site VPN connectio
H. Instruct administrators to use their local onpremises machines to connect directly to the instances by using SSH keys across the VPN tunnel.

**Answer:** B

**Explanation:**
Explanation
https://docs.aws.amazon.com/systems-manager/latest/userguide/setup-launch-managedinstance. html

**NEW QUESTION 7**
A company's website uses an Amazon EC2 instance store for its catalog of items. The company wants to make sure that the catalog is highly available and that the catalog is stored in a durable location.
What should a solutions architect do to meet these requirements?

A. Move the catalog to Amazon ElastiCache for Redis.
B. Deploy a larger EC2 instance with a larger instance store.
C. Move the catalog from the instance store to Amazon S3 Glacier Deep Archive.
D. Move the catalog to an Amazon Elastic File System (Amazon EFS) file system.

**Answer:** A

**NEW QUESTION 8**
A company has a production workload that runs on 1,000 Amazon EC2 Linux instances. The workload is powered by third-party software. The company needs to patch the third-party software on all EC2 instances as quickly as possible to remediate a critical security vulnerability.
What should a solutions architect do to meet these requirements?

A. Create an AWS Lambda function to apply the patch to all EC2 instances.
B. Configure AWS Systems Manager Patch Manager to apply the patch to all EC2 instances.
C. Schedule an AWS Systems Manager maintenance window to apply the patch to all EC2 instances.
D. Use AWS Systems Manager Run Command to run a custom command that applies the patch to all EC2 instances.

**Answer:** D

**NEW QUESTION 9**
A company is developing an application that provides order shipping statistics for retrieval by a REST API. The company wants to extract the shipping statistics, organize the data into an easy-to-read HTML format, and send the report to several email addresses at the same time every morning.
Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

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

**Answer:** DE

**NEW QUESTION 10**
A company is preparing to store confidential data in Amazon S3 For compliance reasons the data must be encrypted at rest Encryption key usage must be logged tor auditing purposes. Keys must be rotated every year.
Which solution meets these requirements and «the MOST operationally efferent?

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

**Answer:** D

**Explanation:**
https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html

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

**NEW QUESTION 10**
A company has more than 5 TB of file data on Windows file servers that run on premises Users and applications interact with the data each day
The company is moving its Windows workloads to AWS. As the company continues this process, the company requires access to AWS and on-premises file storage with minimum latency The company needs a solution that minimizes operational overhead and requires no significant changes to the existing file access patterns. The company uses an AWS Site-to-Site VPN connection for connectivity to AWS
What should a solutions architect do to meet these requirements?

A. Deploy and configure Amazon FSx for Windows File Server on AW
B. Move the on-premises file data to FSx for Windows File Serve
C. Reconfigure the workloads to use FSx for Windows File Server on AWS.
D. Deploy and configure an Amazon S3 File Gateway on premises Move the on-premises file data to the S3 File Gateway Reconfigure the on-premises workloads and the cloud workloads to use the S3 File Gateway
E. Deploy and configure an Amazon S3 File Gateway on premises Move the on-premises file data to Amazon S3 Reconfigure the workloads to use either Amazon S3 directly or the S3 File Gateway, depending on each workload's location
F. Deploy and configure Amazon FSx for Windows File Server on AWS Deploy and configure an Amazon FSx File Gateway on premises Move the on-premises file data to the FSx File Gateway Configure the cloud workloads to use FSx for Windows File Server on AWS Configure the on-premises workloads to use the FSx File Gateway

**Answer:** D

**NEW QUESTION 11**
A solutions architect is designing the cloud architecture for a new application being deployed on AWS. The process should run in parallel while adding and removing application nodes as needed based on the number of fobs to be processed. The processor application is stateless. The solutions architect must ensure that the application is loosely copied and the job items are durably stored
Which design should the solutions architect use?

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

**Answer:** C

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

**NEW QUESTION 13**
A company collects data from thousands of remote devices by using a RESTful web services application that runs on an Amazon EC2 instance. The EC2 instance receives the raw data, transforms the raw data, and stores all the data in an Amazon S3 bucket. The number of remote devices will increase into the millions soon. The company needs a highly scalable solution that minimizes operational overhead.
Which combination of steps should a solutions architect take to meet these requirements9 (Select TWO.)

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

**Answer:** BE

**NEW QUESTION 14**
A company has migrated a two-tier application from its on-premises data center to the AWS Cloud The data tier is a Multi-AZ deployment of Amazon RDS for Oracle with 12 TB of General Purpose SSD Amazon Elastic Block Store (Amazon EBS) storage The application is designed to process and store documents in the database as binary large objects (blobs) with an average document size of 6 MB
The database size has grown over time reducing the performance and increasing the cost of storage. The company must improve the database performance and needs a solution that is highly available and resilient
Which solution will meet these requirements MOST cost-effectively?

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

**Answer:** C

**NEW QUESTION 19**
A company is building a containerized application on premises and decides to move the application to AWS. The application will have thousands of users soon after li is deployed. The company Is unsure how to manage the deployment of containers at scale. The company needs to deploy the containerized application in a highly available architecture that minimizes operational overhead.
Which solution will meet these requirements?

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

**Answer:** A

**NEW QUESTION 20**
A company has five organizational units (OUS) as part of its organization in AWS Organization. Each OU correlate to the five business that the company owns. The company research and development R&D business is separating from the company and will need its own organization. A solutions architect creates a separate new management account for this purpose.

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

**Answer:** B

**NEW QUESTION 24**
A company's web application consists o( an Amazon API Gateway API in front of an AWS Lambda function and an Amazon DynamoDB database. The Lambda function
handles the business logic, and the DynamoDB table hosts the data. The application uses Amazon Cognito user pools to identify the individual users of the application. A solutions architect needs to update the application so that only users who have a subscription can access premium content.

A. Enable API caching and throttling on the API Gateway API
B. Set up AWS WAF on the API Gateway API Create a rule to filter users who have a subscription
C. Apply fine-grained 1AM permissions to the premium content in the DynamoDB table
D. Implement API usage plans and API keys to limit the access of users who do not have a subscription.

**Answer:** C

**NEW QUESTION 28**
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 30**
A company is designing an application to run in a VPC on AWS The application consists of Amazon EC2 instances that tun in private subnets as part of an Auto Scaling group The application also includes a Network Load Balancer that extends across public subnets The application stores data in an Amazon RDS OB instance
The company has attached a security group that is named "web-servers' to the EC2 instances. The company has attached a security group that is named "database" to the DB Instance.

How should a solutions architect configure the communication between the EC2 instances and the DB instance?

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

**Answer:** C

**NEW QUESTION 34**
A company has two AWS accounts in the same AWS Region. One account is a publisher account, and the other account is a subscriber account Each account has its own Amazon S3 bucket.
An application puts media objects into the publisher account's S3 bucket The objects are encrypted with server-side encryption with customer-provided encryption keys (SSE-C). The company needs a solution that will automatically copy the objects to the subscriber's account's S3 bucket.
Which solution will meet these requirements with the LEAST operational overhead?

A. Enable S3 Versioning on the publisher account's S3 bucket Configure S3 Same-Region Replication of the objects to the subscriber account's S3 bucket
B. Create an AWS Lambda function that is invoked when objects are published in the publisher account's S3 bucke
C. Configure the Lambda function to copy the objects to the subscriber accounts S3 bucket
D. Configure Amazon EventBridge (Amazon CloudWatch Events) to invoke an AWS Lambda function when objects are published in the publisher account's S3 bucket Configure the Lambda function to copy the objects to the subscriber account's S3 bucket
E. Configure Amazon EventBridge (Amazon CloudWatch Events) to publish Amazon Simple Notification Service (Amazon SNS) notifications when objects are published in the publisher account's S3 bucket When notifications are received use the S3 console to copy the objects to the subscriber accounts S3 bucket

**Answer:** B

**NEW QUESTION 36**
A company uses Amazon S3 as its data lake. The company has a new partner that must use SFTP to upload data files A solutions architect needs to implement a highly available SFTP solution that minimizes operational overhead
Which solution will meet these requirements?

A. Use AWS Transfer Family to configure an SFTP-enabled server with a publicly accessible endpoint Choose the S3 data lake as the destination
B. Use Amazon S3 File Gateway as an SFTP server Expose the S3 File Gateway endpoint URL to the new partner Share the S3 File Gateway endpoint with the new partner
C. Launch an Amazon EC2 instance in a private subnet in a VPC Instruct the new partner to upload files to the EC2 instance by using a VPN Run a cron job script on the EC2 instance to upload files to the S3 data lake
D. Launch Amazon EC2 instances in a private subnet in a VPC Place a Network Load Balancer (NLB) in front of the EC2 instances Create an SFTP listener port for the NLB Share the NLB hostname with the new partne
E. Run a cron job script on the EC2 instances to upload files to the S3 data lake

**Answer:** A

**NEW QUESTION 41**
A solutions architect is designing a new hybrid architecture to extend a company s on-premises infrastructure to AWS The company requires a highly available connection with consistent low latency to an AWS Region. The company needs to minimize costs and is willing to accept slower traffic if the primary connection fails.
What should the solutions architect do to meet these requirements?

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

**Answer:** A

**NEW QUESTION 43**
A company is running several business applications in three separate VPCs within me us-east-1 Region. The applications must be able to communicate between VPCs. The applications also must be able to consistently send hundreds to gigabytes of data each day to a latency-sensitive application that runs in a single on-premises data center.
A solutions architect needs to design a network connectivity solution that maximizes cost-effectiveness Which solution moots those requirements?

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

**Answer:** C

**NEW QUESTION 45**
A company is developing a new machine learning (ML) model solution on AWS. The models are developed as independent microservices that fetch approximately 1GB of model data from Amazon S3 at startup and load the data into memory Users access the models through an asynchronous API Users can send a request or a batch of requests and specify where the results should be sent
The company provides models to hundreds of users. The usage patterns for the models are irregular. Some models could be unused for days or weeks Other models could receive batches of thousands of requests at a time
Which design should a solutions architect recommend to meet these requirements?

A. Direct the requests from the API to a Network Load Balancer (NLB) Deploy the models as AWS Lambda functions that are invoked by the NLB.
B. Direct the requests from the API to an Application Load Balancer (ALB). Deploy the models as Amazon Elastic Container Service (Amazon ECS) services that read from an Amazon Simple Queue Service (Amazon SQS) queue Use AWS App Mesh to scale the instances of the ECS cluster based on the SQS queue size
C. Direct the requests from the API into an Amazon Simple Queue Service (Amazon SQS) queue Deploy the models as AWS Lambda functions that are invoked by SQS events Use AWS Auto Scaling to increase the number of vCPUs for the Lambda functions based on the SQS queue size
D. Direct the requests from the API into an Amazon Simple Queue Service (Amazon SQS) queue Deploy the models as Amazon Elastic Container Service (Amazon ECS) services that read from the queue Enable AWS Auto Scaling on Amazon ECS for both the cluster and copies of the service based on thequeue size

**Answer:** C

**NEW QUESTION 49**
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:** C

**NEW QUESTION 53**
A company has developed a new content-sharing application that runs on Amazon Elastic Container Service (Amazon ECS). The application runs on Amazon Linux Docker tasks that use the Amazon EC2 launch type. The application requires a storage solution that has the following characteristics:
• Accessibility (or multiple ECS tasks through bind mounts
• Resiliency across Availability Zones
• Burstable throughput of up to 3 Gbps
• Ability to be scaled up over time
Which storage solution meets these requirements?

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

**Answer:** B

**NEW QUESTION 56**
A company hosts its web application on AWS using seven Amazon EC2 instances. The company requires that the IP addresses of all healthy EC2 instances be returned in response to DNS queries.
Which policy should be used to meet this requirement?

A. Simple routing policy
B. Latency routing policy
C. Multivalue routing policy
D. Geolocation routing policy

**Answer:** C

**Explanation:**
https://aws.amazon.com/premiumsupport/knowledge-center/multivalue-versus-simple-policies/
"Use a multivalue answer routing policy to help distribute DNS responses across multiple resources. For example, use multivalue answer routing when you want to associate your routing records with a Route 53 health check."
https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html#routing-policy-multivalue

**NEW QUESTION 60**
A company wants to migrate its existing on-premises monolithic application to AWS.

The company wants to keep as much of the front- end code and the backend code as possible. However, the company wants to break the application into smaller applications. A different team will manage each application. The company needs a highly scalable solution that minimizes operational overhead.
Which solution will meet these requirements?

A. Host the application on AWS Lambda Integrate the application with Amazon API Gateway.
B. Host the application with AWS Amplif
C. Connect the application to an Amazon API Gateway API that is integrated with AWS Lambda.
D. Host the application on Amazon EC2 instance
E. Set up an Application Load Balancer with EC2 instances in an Auto Scaling group as targets.
F. Host the application on Amazon Elastic Container Service (Amazon ECS) Set up an Application Load Balancer with Amazon ECS as the target.

**Answer:** C

**NEW QUESTION 65**
A company wants to migrate its on-premises application to AWS. The application produces output files that vary in size from tens of gigabytes to hundreds of terabytes The application data must be stored in a standard file system structure The company wants a solution that scales automatically, is highly available, and requires minimum operational overhead.
Which solution will meet these requirements?

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

**Answer:** C

**NEW QUESTION 67**
A company wants to run applications in container in the AWS Cloud. Those applications arc stateless and can tolerate disruptions. What should a solutions architect do to meet those requirements?
What should a solution architect do to meet these requirements?

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

**Answer:** A

**NEW QUESTION 69**
A company that primarily runs its application servers on premises has decided to migrate to AWS. The company wants to minimize its need to scale its Internet Small Computer Systems Interface (iSCSI) storage on premises. The company wants only its recently accessed data to remain stored locally.
Which AWS solution should the company use to meet these requirements?

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

**Answer:** D

**NEW QUESTION 70**
A startup company is hosting a website for its customers on an Amazon EC2 instance. The website consists of a stateless python application and a MySQL database. The website serves only a small amount of traffic. The company is concerned about the reliability of the instance and needs to migrate to a highly available architecture. The company cannot modify the application code.
Which combination of actions should a solution architect take to achieve high availability for the website?
(Select TWO.)

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

**Answer:** BE

**NEW QUESTION 71**
A company wants an AWS Lambda function to call a third-party API and save the response to a private Amazon ROS DB instance in the same private subnet
What should a solutions architect do to meet these requirements?

A. Create a NAT gatewa
B. In the route table for the private subnet, add a route to the NAT gatewa
C. Attach the Lambda function to the private subne
D. Create an IAM role that includes the AWSLambdaBasicExecutionRole permissions policy Attach the role to the Lambda function
E. Create an internet gateway In the route table for the private subnet, add a route to the internet gateway Attach the Lambda function to the private subnet Create an IAM role that includes me AWSLambdaBasicExecutionRole permissions policy Attach the role to the Lambda function
F. Create a NAT gateway In the route table for the private subnet add a route to the NAT gateway Attach the Lambda function to the private subne

G. Create an IAM role that includes the AWS LambdaVPCAccessExecutionRole permissions policy Attach the role to the Lambda function
H. Create an internet gateway in the route table for the private subnet, add a route to the internet gateway Attach the Lambda function to the private subnet Create an IAM role that includes the AWSLambdaVPCAccessExecutionRole permissions policy Attach the role to the Lambda function

**Answer:** B

**NEW QUESTION 73**
A research company runs experiments that are powered by a simulation application and a visualization application. The simulation application runs on Linux and outputs intermediate data to an NFS share every 5 minutes. The visualization application is a Windows desktop application that displays the simulation output and requires an SMB file system.
The company maintains two synchronized tile systems. This strategy is causing data duplication and inefficient resource usage. The company needs to migrate the applications to AWS without making code changes to either application.
Which solution will meet these requirements?

A. Migrate both applications to AWS Lambda Create an Amazon S3 bucket to exchange data between the applications.
B. Migrate both applications to Amazon Elastic Container Service (Amazon ECS). Configure Amazon FSx File Gateway for storage.
C. Migrate the simulation application to Linux Amazon EC2 instance
D. Migrate the visualization application to Windows EC2 instance
E. Configure Amazon Simple Queue Service (Amazon SOS) to exchange data between the applications.
F. Migrate the simulation application to Linux Amazon EC2 instance
G. Migrate the visualization application to Windows EC2 instance
H. Configure Amazon FSx for NetApp ONTAP for storage.
I. B

**Answer:** E

**NEW QUESTION 78**
A solution architect is using an AWS CloudFormation template to deploy a three-tier web application. The web application consist of a web tier and an application that stores and retrieves user data in Amazon DynamoDB tables. The web and application tiers are hosted on Amazon EC2 instances, and the database tier is not publicly accessible. The application EC2 instances need to access the Dynamo tables Without exposing API credentials in the template.
What should the solution architect do to meet the requirements?

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

**Answer:** B

**NEW QUESTION 83**
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 84**
A company needs to retain application logs files for a critical application for 10 years. The application team regularly accesses logs from the past month for troubleshooting, but logs older than 1 month are rarely accessed. The application generates more than 10 TB of logs per month.
Which storage option meets these requirements MOST cost-effectively?

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

**Answer:** B

**NEW QUESTION 85**
A company hosts its web applications in the AWS Cloud. The company configures Elastic Load Balancers to use certificate that are imported into AWS Certificate Manager (ACM). The company's security team must be notified 30 days before the expiration of each certificate.
What should a solutions architect recommend to meet the requirement?

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

**Answer:** B

**NEW QUESTION 88**
A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket The app retrieves these video clips directly from the S3 bucket. However the videos are large in their raw format.
Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead
Which combination of solutions will meet these requirements? (Select TWO.)

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

**Answer:** CD

**NEW QUESTION 89**
A company is building a solution that will report Amazon EC2 Auto Scaling events across all the applications In an AWS account. The company needs to use a serverless solution to store the EC2 Auto Scaling status data in Amazon S3 The company then will use the data m Amazon S3 to provide near-real time updates in a dashboard The solution must not affect the speed of EC2 instance launches.
How should the company move the data to Amazon S3 to meet these requirements?

A. Use an Amazon CioudWatch metric stream to send the EC2 Auto Scaling status data to Amazon Kinesis Data Firehose Store the data in Amazon S3
B. Launch an Amazon EMR duster to collect the EC2 Auto Scaling status data and send the data to Amazon Kinesis Data Firehose Store the data in Amazon S3
C. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda (unction on a schedule Configure the Lambda function to send the EC2 Auto Scaling status data directly to Amazon S3
D. Use a bootstrap script during the launch of an EC2 instance to install Amazon Kinesis Agent Configure Kinesis Agent to collect the EC2 Auto Scaling status data and send the data to Amazon Kinesis Data Firehose Store the data in Amazon S3

**Answer:** B

**NEW QUESTION 93**
A solutions architect is using Amazon S3 to design the storage architecture of a new digital media application. The media files must be resilient to the loss of an Availability Zone Some files are accessed frequently while other files are rarely accessed in an unpredictable pattern. The solutions architect must minimize the costs of storing and retrieving the media files.
Which storage option meets these requirements?

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

**Answer:** B

**NEW QUESTION 94**
A solutions architect is tasked with transferring 750 TB of data from a network-attached file system located at a branch office to Amazon S3 Glacier The solution must avoid saturating the branch office's tow-bandwidth internet connection
What is the MOST cost-effective solution?

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

**Answer:** D

**NEW QUESTION 96**
A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers, and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0.

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

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

**Answer:** C

**NEW QUESTION 97**
A company is deploying a new application lo Amazon Elastic Kubernetes Service (Amazon EKS) with an AWS Fargate duster The application needs a storage solution for data persistence The solution must be highly available and fault tolerant The solution also must be shared between multiple application containers Which solution will meet these requirements with the LEAST operational overhead?

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

**Answer:** B

**NEW QUESTION 98**
A company stores confidential data in an Amazon Aurora PostgreSQL database in the ap-southeast-3 Region The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key The company was recently acquired and must securely share a backup of the database with the acquiring company's AWS account in ap-southeast-3.
What should a solutions architect do to meet these requirements?

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

**Answer:** A

**NEW QUESTION 100**
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